

Board Finance & Audit Committee Meeting and Special SMUD Board of Directors Meeting

Date: Tuesday, March 14, 2023

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

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

Powering forward. Together.



AGENDA

BOARD FINANCE & AUDIT COMMITTEE MEETING AND SPECIAL SMUD BOARD OF DIRECTORS MEETING

Tuesday, March 14, 2023
SMUD Headquarters Building, Auditorium
6201 S Street, Sacramento, California
Scheduled to begin at 6:00 p.m.

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

Virtual Viewing or Attendance:

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

Zoom Webinar Link: [Join Board Finance and Audit Committee Meeting Here](#)

Webinar/Meeting ID: 160 634 6866

Passcode: 805495

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

Verbal Public Comment:

Members of the public may provide verbal public comment by:

- Registering in advance of a meeting by sending an email to PublicComment@smud.org, making sure to include the commenter's name, date of the meeting, and topic or agenda item for comment. Microphones will be enabled for virtual or telephonic attendees at the time public comment is called and when the commenter's name is announced.
- Completing a sign-up form at the table outside of the meeting room and giving it to a Security Guard.
- Using the "Raise Hand" feature in Zoom (or pressing *9 while dialed into the telephone/toll-free number) during the meeting at the time public comment is called. Microphones will be enabled for virtual or telephonic attendees when the commenter's name is announced.

Written Public Comment:

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

DISCUSSION ITEMS

1. Laurie Rodriguez Approve side letter agreements related to the terms by which SMUD will pay towards employee uniform allowances for the purchase of flame-resistant clothing for the following bargaining units:
 - a. **International Brotherhood of Electrical Workers Local Union 1245 (IBEW)**; and
 - b. **Organization of SMUD Employees (OSE).**

Presentation: 4 minutes
Discussion: 1 minute

INFORMATIONAL ITEMS

2. Aaron Worthman, CPA SMUD's 2022 Financial Statements External Audit Results.
PARTNER,
BAKER TILLY US, LLP

Presentation: 20 minutes
Discussion: 10 minutes
3. Lisa Limcaco SMUD's Financial Results for the year 2022.

Presentation: 8 minutes
Discussion: 2 minutes
4. Lisa Limcaco Provide the Board with SMUD's financial results for the year-to-date period and a summary of SMUD's current Power Supply Costs.

Presentation: 8 minutes
Discussion: 5 minutes
5. Jessica Sanders, Ph.D., Provide the Board with an external presentation from the **Sacramento Tree Foundation** regarding the state of the canopy in SMUD's service territory.
PMP
EXECUTIVE DIRECTOR,
SACRAMENTO TREE
FOUNDATION

Presentation: 15 minutes
Discussion: 15 minutes

DISCUSSION ITEMS (cont.)

6. Ed Hamzawi Authorize the Chief Executive Officer and General Manager to award a sole source contract to the **Sacramento Tree Foundation** to provide shade trees to SMUD customers during the period May 1, 2023, through April 30, 2026, for a not-to-exceed amount of \$3,876,000.

Presentation: 10 minutes
Discussion: 10 minutes

7. Amber Connors Approve Contract Change No. 1 to Contract No. 4600001124 with **Open Systems International, Inc.** to increase the contract amount by \$12,550,000, from \$10,256,189 to \$22,806,189, for the addition of a new outage management system.
Presentation: 10 minutes
Discussion: 15 minutes

INFORMATIONAL ITEMS (cont.)

8. Claire Rogers Audit Reports: Customer Programs.
Discussion: 1 minute
9. Public Comment
10. Rob Kerth Summary of Committee Direction.
Discussion: 1 minute

ANNOUNCEMENT OF CLOSED SESSION AGENDA

1. Public Employment.

Pursuant to Section 54957 of the Government Code:

Special Assistant to the Board.

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

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

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

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
Finance & Audit – 03/14/23

Board Meeting Date
March 15, 2023

TO				TO			
1.	Laurie Rodriguez	6.					
2.	Jennifer Davidson	7.					
3.	Lora Anguay	8.					
4.	Scott Martin	9.	Legal				
5.	Jose Bodipo-Memba	10.	CEO & General Manager				
Consent Calendar	<input checked="" type="checkbox"/> Yes	No <i>If no, schedule a dry run presentation.</i>	Budgeted				
	<input checked="" type="checkbox"/> Yes	No <i>(If no, explain in Cost/Budgeted section.)</i>					
FROM (IPR) Randall Hakes		DEPARTMENT Legal					
		MAIL STOP B406	EXT. 7416				
		DATE SENT 03/03/23					
NARRATIVE:							
<p>Requested Action: Approve side letter agreements related to the terms by which SMUD will pay towards employee uniform allowances for the purchase of flame-resistant clothing for the following bargaining units:</p> <ul style="list-style-type: none"> a. International Brotherhood of Electrical Workers Local Union 1245 (IBEW); and b. Organization of SMUD Employees (OSE). <p>Summary: CalPERS requires Board approval of the terms by which SMUD provides uniform allowances so that the amounts SMUD has reported in the past (and going forward) will continue to be treated by CalPERS as special compensation. Items of special compensation are added or included to a retiree's pension benefit calculations. SMUD has been reporting these allowances as special compensation and CalPERS will resolve its concerns with SMUD related to these reported items if the procedures that require SMUD's Board to approve the terms of the uniform allowances are met.</p> <p>Board Policy: Governance Process GP-3, Board Job Description, j) Take such other actions as may be required by law. <i>(Number & Title)</i> Strategic Direction SD-8, Employee Relations</p> <p>Benefits: This will resolve audit issues raised by CalPERS and allow the agreed upon uniform allowances in the side letters to continue to be reported to CalPERS as an item of special compensation.</p> <p>Cost/Budgeted: Costs were contained within Business Unit approved budgets.</p> <p>Alternatives: Withhold Board approval and incur further litigation with CalPERS regarding pension reductions for retirees, with potential contributions from SMUD becoming due for overpaid amounts.</p> <p>Affected Parties: Eligible IBEW and OSE employees who receive an allowance for flame-resistant clothing.</p> <p>Coordination: Executive Office, People Services & Strategies, Employee Relations, Legal, CalPERS</p> <p>Presenter: Laurie Rodriguez, Director, People Services & Strategies</p>							

Additional Links:

SUBJECT

Side Letter Agreements with IBEW & OSE

ITEM NO. (FOR LEGAL USE ONLY)

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.



March 2, 2023
LR 23-006

Lou Mennel
Business Representative
PO Box 2547
30 Orange Tree Circle
Vacaville, CA 95696

SUBJECT: Letter Agreement – Flame Resistant Clothing

Dear Mr. Mennel,

This side letter memorializes an agreement reached between Sacramento Municipal Utility District ("SMUD") and International Brotherhood of Electrical Workers, Local Union 1245 ("IBEW") to modify Article 31 – Miscellaneous, Section 4 – Flame Resistant Clothing to the 2022-2025 Memorandum of Understanding ("MOU") between the parties. All other terms and conditions of the existing MOU, including under Article 31, Section 4, shall remain in full force and effect.

Under Article 31, Section 4, the following employees receive vouchers for Flame Resistant ("FR") clothing made from protective fabric as part of their uniform:

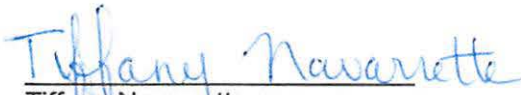
Apprentice Cable Splicer/Electrician • Apprentice Electrician • Apprentice Electrical Technician • Apprentice Facilities Stationary Engineer • Apprentice Lineman-woman • Apprentice Meter Technician • Apprentice Plant Mechanic • Cable Locator • Cable Splicer/Electrician • Cable Splicer/Electrician Foreman-woman, Light • Combustion Turbine Technician • Electrical Technician • Electrician • Facilities Stationary Engineer • Fault Locator • High Voltage Test Technician • Hydro Operator • Line Construction Foreman-woman • Line Equipment Operator • Line Equipment Operator Assistant • Line Foreman-woman, Light • Line Subforeman-woman • Lineman-woman • Maintenance Carpenter • Meter Technician • Network Electrical Foreman-woman, Light • Plant Mechanic • Plant Mechanic Foreman • Revenue Protection Representative • Senior High Voltage Test Technician • Senior Meter Technician • Senior Troubleshooter • Substation Subforeman-woman • Substation Foreman-woman, Light • Telecom Technician • Troubleshooter.

Eligible employees identified above will receive the following voucher amounts:

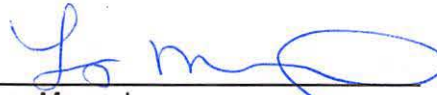
- Upon hire, eligible employees will receive an amount not to exceed \$2,000 for the initial purchase of clothing items determined by their Business Unit.
- In 2022 & 2025, all eligible employees received up to \$2,000 for the purchase of approved FR clothing items.
- In 2023 through 2024, all eligible employees will receive up to \$1,000 per year for the maintenance and additional replacement of approved FR clothing items.

SMUD and IBEW agree to incorporate the above language into the 2022-2025 MOU.

It is understood that this side letter of agreement is of no force and effect whatsoever until the SMUD Board of Directors adopts the side letter.



Tiffany Navarrette
Principal Employee Relations Analyst



Lou Mennel
IBEW Business Representative



March 2, 2023
LR 23-005

Danette Shipley, President-Executive Director
Organization of SMUD Employees
PO Box 279013
Sacramento, CA 95827

SUBJECT: Side Letter Agreement – Flame Resistant Clothing

This side letter memorializes an agreement reached between the Sacramento Municipal Utility District ("SMUD") and the Organization of SMUD Employees ("OSE") to modify Article 20 – Miscellaneous, Section 1 – Flame Resistant Clothing to the 2022-2025 Memorandum of Understanding ("MOU") between the parties. All other terms and conditions of the existing MOU, including under Article 20, Section 1, shall remain in full force and effect.

Under Article 20, Section 1, the following employees receive vouchers for Flame Resistant ("FR") clothing made from protective fabric as part of their uniform:

Customer Service Field Representative
Construction Management Inspectors

Eligible employees identified above will receive the following voucher amounts:

- Upon hire, eligible employees will receive an amount not to exceed \$1,500 for the initial purchase of clothing items determined by their Business Unit.
- In 2022, all eligible employees received up to \$1,500 for the purchase of approved FR clothing items.
- In 2023 through 2025, all eligible employees will receive up to \$300 per year for the maintenance and additional replacement of approved FR clothing items.

SMUD and OSE agree to incorporate the above language into the 2022-2025 MOU.

It is understood that this side letter of agreement is of no force and effect whatsoever until the SMUD Board of Directors adopts the side letter.

Christopher Martin
Senior Labor Relations Analyst

Danette Shipley
President-Executive Director, OSE

SSS No.
ACC 23-008

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
March 14, 2023
Finance & Audit
Board Meeting Date
N/A

TO				TO			
1.	Lisa Limcaco			6.			
2.	Jose Bodipo-Memba			7.			
3.	Jennifer Davidson			8.			
4.	Lora Anguay			9.	Legal		
5.	Scott Martin			10.	CEO & General Manager		
Consent Calendar		Yes	No <i>If no, schedule a dry run presentation.</i>	Budgeted		Yes	No <i>(If no, explain in Cost/Budgeted section.)</i>
FROM (IPR) Kathy Ketchum			DEPARTMENT Accounting			MAIL STOP B352	EXT. 5661
DATE SENT 2/28/23							
NARRATIVE:							
<p>Requested Action: Presentation to the Board by SMUD's independent auditor on the 2022 Financial Statements External Audit Report.</p> <p>Summary: SMUD's independent auditor will present the results of the 2022 Financial Statements External Audit Report.</p> <p>Board Policy: GP-3, Board Job Description <i>(Number & Title)</i></p> <p>Benefits: Provides Board members with current information on the 2022 financial results for SMUD. Fulfills requirements of the MUD Act and bond resolutions.</p> <p>Cost/Budgeted: The cost of this presentation is included in the contract for the annual audit of SMUD's financial statements.</p> <p>Alternatives: N/A</p> <p>Affected Parties: SMUD</p> <p>Coordination: Accounting</p> <p>Presenter: Aaron Worthman, Baker Tilly US, LLP</p>							

Additional Links:

SUBJECT	2022 Financial Statements External Audit Report	ITEM NO. <i>(FOR LEGAL USE ONLY)</i>
---------	---	--------------------------------------

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.



Aaron Worthman
Baker Tilly
Partner, CPA

Aaron Worthman, partner and leader of the power and utilities team, has been with Baker Tilly since 1998. Aaron specializes in serving tribal, governmental and utility entities. His experience includes performing financial audits and agreed-upon procedure reviews as well as preparing rate studies, cost of service studies, rate designs and financial forecasts.

**Report on Internal Control
Over Financial Reporting and on Compliance
and Other Matters Based on an Audit of
Financial Statements Performed in Accordance
With *Government Auditing Standards***

Independent Auditors' Report

To the Board of Directors of
Sacramento Municipal Utility District

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the Sacramento Municipal Utility District, which comprise the statement of financial position as of December 31, 2022, and the related statements of activities and cash flows for the year then ended, and the related notes to the financial statements, and have issued our report thereon dated February 24, 2023. As noted in the report, the Sacramento Municipal Utility District adopted the provisions of GASB Statement No. 87, *Leases*, effective January 1, 2022. Our opinion was not modified with respect to this matter.

Report on Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the Sacramento Municipal Utility District's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinion on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Sacramento Municipal Utility District's internal control. Accordingly, we do not express an opinion on the effectiveness of the Sacramento Municipal Utility District's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected, on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses or significant deficiencies may exist that were not identified.

Report on Compliance and Other Matters

As part of obtaining reasonable assurance about whether the Sacramento Municipal Utility District's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

Purpose of This Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

A handwritten signature in black ink that reads "Baker Tilly US, LLP". The signature is written in a cursive, flowing style.

Madison, Wisconsin
February 24, 2023

**Reporting and insights
from the 2022 audit:**
Sacramento Municipal Utility
District and Sacramento
Municipal Utility District – Joint
Power Authorities (JPAs)

December 31, 2022

Executive summary

February 24, 2023

The Board of Directors
Sacramento Municipal Utility District (SMUD) and SMUD JPAs
6201 S Street
Sacramento, California 95817

We have completed our audits of the financial statements of the Sacramento Municipal Utility District (SMUD) and the SMUD Financing Authority (SFA), Northern California Gas Authority No. 1 (NCG1) and Northern California Energy Authority (NCEA) (collectively referred to as "SMUD JPAs") for the year ended December 31, 2022, and have issued our reports thereon dated February 24, 2023. This letter presents communications required by our professional standards.

Your audits should provide you with confidence in your financial statements. The audits were performed based on information obtained from meetings with management, data from your systems, knowledge of SMUD and SMUD JPAs' operating environment and our risk assessment procedures. We strive to provide you clear, concise communication throughout the audit process and of the final results of our audits.

Additionally, we have included information on key risk areas SMUD and SMUD JPAs should be aware of in your strategic planning. We are available to discuss these risks as they relate to your organization's financial stability and future planning.

If you have questions at any point, please connect with us:


- Aaron Worthman, Partner: Aaron.Worthman@bakertilly.com or +1 (512) 975 7281
- Ryan O'Donnell, Senior Manager: Ryan.Odonnell@bakertilly.com or +1 (608) 240 2606

Sincerely,

Baker Tilly US, LLP



Aaron Worthman, CPA, Partner



Ryan O'Donnell, CPA, Senior Manager

THIS COMMUNICATION IS INTENDED SOLELY FOR THE INFORMATION AND USE OF THOSE CHARGED WITH GOVERNANCE, AND, IF APPROPRIATE, MANAGEMENT, AND IS NOT INTENDED TO BE AND SHOULD NOT BE USED BY ANYONE OTHER THAN THESE SPECIFIED PARTIES.

BAKER TILLY US, LLP, TRADING AS BAKER TILLY, IS A MEMBER OF THE GLOBAL NETWORK OF BAKER TILLY INTERNATIONAL LTD., THE MEMBERS OF WHICH ARE SEPARATE AND INDEPENDENT LEGAL ENTITIES.

Responsibilities

Our responsibilities

As your independent auditor, our responsibilities include:

- Planning and performing the audits to obtain reasonable assurance about whether the financial statements are free from material misstatement. Reasonable assurance is a high level of assurance.
- Assessing the risks of material misstatement of the financial statements, whether due to fraud or error. Included in that assessment is a consideration of SMUD and SMUD JPAs' internal control over financial reporting.
- Performing appropriate procedures based upon our risk assessment.
- Evaluating the appropriateness of the accounting policies used and the reasonableness of significant accounting estimates made by management.
- Forming and expressing opinions based on our audits about whether the financial statements prepared by management, with the oversight of the Board of Directors:
 - Are free from material misstatement
 - Present fairly, in all material respects and in accordance with accounting principles generally accepted in the United States of America
- Performing tests related to compliance with certain provisions of laws, regulations, contracts and grants, as required by *Government Auditing Standards* (SMUD only).
- Our audit does not relieve management or the Board of Directors of their responsibilities.

We are also required to communicate significant matters related to our audits that are relevant to the responsibilities of the Board of Directors, including:

- Internal control matters
- Qualitative aspects of SMUD and SMUD JPAs' accounting practice including policies, accounting estimates and financial statement disclosures
- Significant unusual transactions
- Significant difficulties encountered
- Disagreements with management
- Circumstances that affect the form and content of the auditors' report
- Audit consultations outside the engagement team
- Corrected and uncorrected misstatements
- Other audit findings or issues

Audit status

Significant changes to the audit plan

There were no significant changes made to either our planned audit strategy or to the significant risks and other areas of emphasis identified during the performance of our risk assessment procedures.

Audit approach and results

Planned scope and timing

Audit focus

Based on our understanding of SMUD, SMUD JPAs and environment in which you operate, we focused our audit on the following key areas:

- Key transaction cycles
- Areas with significant estimates
- Implementation of new accounting standards

Our areas of audit focus were informed by, among other things, our assessment of materiality. Materiality in the context of our audit was determined based on specific qualitative and quantitative factors combined with our expectations about SMUD and SMUD JPAs' current year results.

Key areas of focus and significant findings

Significant risks of material misstatement

A significant risk is an identified and assessed risk of material misstatement that, in the auditor's professional judgment, requires special audit consideration. Within our audits, we focused on the following areas below.

Significant risk areas	Testing approach	Conclusion
Management override of controls	Incorporate unpredictability into audit procedures, emphasize professional skepticism and utilize audit team with industry expertise	Procedures identified provided sufficient evidence for our audit opinions
Improper revenue recognition due to fraud	Confirmation or validation of certain revenues supplemented with detailed predictive analytics based on non-financial data and substantive testing of related receivables	Procedures identified provided sufficient evidence for our audit opinions

Other areas of emphasis

We also focused on other areas that did not meet the definition of a significant risk, but were determined to require specific awareness and a unique audit response.

Other areas of emphasis		
Cash and investments	Revenues and receivables	General disbursements
Payroll	Pension and OPEB liabilities (assets)	Long-term debt
Capital assets	Inventory	Financial reporting and required disclosures
Regulatory debits and credits	Accrued liabilities	Derivative instruments
Asset retirement obligation	Information technology	Pollution remediation liability
Lease accounting		

Internal control matters

We considered SMUD and SMUD JPAs' internal control over financial reporting as a basis for designing our audit procedures for the purpose of expressing opinions on the financial statements. We are not expressing opinions on the effectiveness of SMUD and SMUD JPAs' internal control.

Our consideration of internal control was for the limited purpose described in the preceding paragraph and was not designed to identify all deficiencies in internal control that might be material weaknesses or significant deficiencies and, therefore, material weaknesses or significant deficiencies may exist that were not identified.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct misstatements on a timely basis.

A material weakness is a deficiency or combination of deficiencies in internal control such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected, on a timely basis. We did not identify any deficiencies in internal control that we consider to be material weaknesses.

Required communications

Qualitative aspect of accounting practices

- Accounting policies: Management is responsible for the selection and use of appropriate accounting policies. In accordance with the terms of our engagement letter, we have advised management about the appropriateness of accounting policies and their application. The significant accounting policies used by SMUD and SMUD JPAs are described in Note 2 to the financial statements. As described in Note 2, SMUD and SFA changed accounting policies related to lease accounting by adopting Government Accounting Standards Board (GASB) Statement No. 87: *Leases*. Accordingly, the accounting change has been retrospectively applied to the prior period presented. No other new accounting policies were adopted and the application of other existing accounting policies were not changed during 2022. We noted no transactions entered into by SMUD or SMUD JPAs during the year for which accounting policies are controversial or for which there is a lack of authoritative guidance or consensus or diversity in practice.
- Accounting estimates: Accounting estimates, including fair value estimates, are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements, the degree of subjectivity involved in their development and because of the possibility that future events affecting them may differ significantly from those expected. The following estimates are of most significance to the financial statements:

Estimate	Management's process to determine	Baker Tilly's conclusions regarding reasonableness
Fuel hedges	Evaluations based on future forward pricing using third party specialist	Reasonable in relation to the financial statements as a whole
Interest rate swaps	Evaluations based on discounted expected cash flows at corresponding zero coupon rate	Reasonable in relation to the financial statements as a whole
Net pension asset, liability and related deferrals	Evaluation of information provided by the CALPERS Retirement System	Reasonable in relation to the financial statements as a whole
Asset retirement obligation	Evaluation based on current value of future outlays expected to be incurred	Reasonable in relation to the financial statements as a whole
Allowance for doubtful accounts	Evaluation of historical revenues and loss levels with the analysis on collectability of individual amounts	Reasonable in relation to the financial statements as a whole
Net/Total OPEB asset, liability and related deferrals	Key assumptions set by management with the assistance of a third party	Reasonable in relation to the financial statements as a whole
Depreciation	Evaluate estimated useful life of the asset and original acquisition value	Reasonable in relation to the financial statements as a whole

Estimate	Management's process to determine	Baker Tilly's conclusions regarding reasonableness
Pollution remediation obligation	Evaluation based on current value of future outlays expected to be incurred	Reasonable in relation to the financial statements as a whole
Unbilled revenue	Evaluation volume used by customers from their last billing date through the end of the month	Reasonable in relation to the financial statements as a whole
Accrued compensation absences	Evaluation of hours earned and accumulated in accordance with employment policies and average wage per hour rates	Reasonable in relation to the financial statements as a whole
Self-insurance claims	Historical claims analysis and report provided by a 3 rd party administrator	Reasonable in relation to the financial statements as a whole
Lease right-to-use assets, and related deferrals	Evaluation based on present value of expected future lease payments	Reasonable in relation to the financial statements as a whole

There have been no significant changes made by management to either the processes used to develop the particularly sensitive accounting estimates, or to the significant assumptions used to develop the estimates, noted above.

- Financial statement disclosures: The disclosures in the financial statements are neutral, consistent and clear.

Significant unusual transactions

During 2022, SMUD established regulatory accounting for pension and other post-employment benefits (OPEB) costs to defer recognition of certain expenses related to the amortization of deferred outflows and deferred inflows to resources to match such costs in the appropriate accounting period for rate-making purposes. This resulted in an approximately \$106 million in additional deferred charges in 2022. There have been no other significant transactions that are outside the normal course of business for SMUD or SMUD JPAs or that otherwise appear to be unusual due to their timing, size or nature.

Significant difficulties encountered during the audit

We encountered no significant difficulties in dealing with management and completing our audits.

Disagreements with management

Professional standards define a disagreement with management as a matter, whether or not resolved to our satisfaction, concerning a financial accounting, reporting, or auditing matter that could be significant to the financial statements or the auditors' reports. We are pleased to report that no such disagreements arose during the course of our audits.

Audit report

There have been no departures from the auditors' standard reports.

Audit consultations outside the engagement team

We encountered no difficult or contentious matters for which we consulted outside of the engagement team.

Uncorrected misstatements and corrected misstatements

Professional standards require us to accumulate misstatements identified during the audit, other than those that are clearly trivial, and to communicate accumulated misstatements to management. The schedule within the attachments summarizes NCG1's uncorrected misstatements that we presented to management, other than those that are clearly trivial, that, in our judgment, may not have been detected except through our auditing procedures. In our judgment, none of the uncorrected misstatements, either individually or in the aggregate, indicate matters that could have had a significant effect on the entity's financial reporting process.

Management has determined that the effects of the uncorrected misstatements are immaterial, both individually and in the aggregate, to the financial statements as a whole. The uncorrected misstatements or the matters underlying them could potentially cause future period financial statements to be materially misstated, even though, in our judgment, such uncorrected misstatements are immaterial to the basic financial statements under audit.

Other audit findings or issues

We encountered no other audit findings or issues that require communication at this time.

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as SMUD and SMUD JPAs' auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention.

Other information in documents containing audited basic financial statements

SMUD and SMUD JPAs' audited financial statements are "general purpose" financial statements. General purpose financial statements consist of the basic financial statements that can be used by a broad group of people for a broad range of activities. Once we have issued our audit reports, we have no further obligation to update our reports for events occurring subsequent to the date of our reports. SMUD and SMUD JPAs can use the audited financial statements in other client prepare documents, such as official statements related to the issuance of debt, without our acknowledgement. Unless we have been engaged to perform services in connection with any subsequent transaction requiring the inclusion of our audit reports, as well as to issue an auditor's acknowledgment letter, we have neither read the document nor performed subsequent event procedures in order to determine whether or not our reports remain appropriate.

Management's consultations with other accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters. Management informed us that, and to our knowledge, there were no consultations with other accountants regarding auditing or accounting matters.

Written communications between management and Baker Tilly

The attachments include copies of other material written communications, including a copy of the management representation letters.

Compliance with laws and regulations

We did not identify any non-compliance with laws and regulations during our audits.

Fraud

We did not identify any known or suspected fraud during our audits.

Going concern

Pursuant to professional standards, we are required to communicate to you, when applicable, certain matters relating to our evaluation of SMUD and SMUD JPAs' ability to continue as a going concern for a reasonable period of time but no less than 12 months from the date of the financial statements, including the effects on the financial statements and the adequacy of the related disclosures, and the effects on the auditor's reports. No such matters or conditions have come to our attention during our engagement.

Independence

We are not aware of any relationships between Baker Tilly and SMUD or SMUD JPAs that, in our professional judgment, may reasonably be thought to bear on our independence.

Related parties

We did not have any significant findings or issues arise during the audit in connection with SMUD and SMUD JPAs' related parties.

Other matter

We applied certain limited procedures to the required supplementary information (RSI) that supplements the basic financial statements. Our procedures consisted of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We did not audit the RSI and do not express opinions or provide any assurance on the RSI.

Audit committee resources

Visit our resource page for regulatory updates, trending challenges and opportunities in your industry and other timely updates.

Visit the resource page at <https://www.bakertilly.com/insights/audit-committee-resource-page>.

Management representation letter



February 24, 2023

Baker Tilly US, LLP
4807 Innovate Ln
Madison, WI 53718

Dear Baker Tilly US, LLP:

We are providing this letter in connection with your audits of the general purpose financial statements of the Sacramento Municipal Utility District as of December 31, 2022 and 2021 and for the years then ended for the purpose of expressing an opinion as to whether the financial statements present fairly, in all material respects, the financial position of the Sacramento Municipal Utility District and the respective changes in financial position and cash flows in conformity with accounting principles generally accepted in the United States of America (GAAP). We confirm that we are responsible for the fair presentation of the previously mentioned financial statements in conformity with accounting principles generally accepted in the United States of America. We are also responsible for adopting sound accounting policies, establishing and maintaining internal control over financial reporting, and preventing and detecting fraud.

Certain representations in this letter are described as being limited to matters that are material. Items are considered material, regardless of size, if they involve an omission or misstatement of accounting information that, in the light of surrounding circumstances, makes it probable that the judgment of a reasonable person relying on the information would be changed or influenced by the omission or misstatement. An omission or misstatement that is monetarily small in amount could be considered material as a result of qualitative factors.

We confirm, to the best of our knowledge and belief, the following representations made to you during your audits.

Financial Statements

- 1) We have fulfilled our responsibilities, as set out in the terms of the audit engagement letter dated November 30, 2022.
- 2) The financial statements referred to above are fairly presented in conformity with accounting principles generally accepted in the United States of America and include all blended component units and other information of the Sacramento Municipal Utility District required by accounting principles generally accepted in the United States of America to be included in the financial reporting entity.
- 3) We acknowledge our responsibility for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.
- 4) We acknowledge our responsibility for the design, implementation, and maintenance of internal control to prevent and detect fraud.
- 5) Significant assumptions we used in making accounting estimates, including those measured at fair value, if any, are reasonable.

- 6) Related party relationships and transactions, including revenues, expenditures/expenses, loans, transfers, leasing arrangements, and guarantees, and amounts receivable from or payable to related parties have been appropriately accounted for and disclosed in accordance with the requirements of accounting principles generally accepted in the United States of America.
- 7) All events subsequent to the date of the financial statements and for which accounting principles generally accepted in the United States of America require adjustment or disclosure have been adjusted or disclosed. No other events, including instances of noncompliance, have occurred subsequent to the financial statement date and through the date of this letter that would require adjustment to or disclosure in the aforementioned financial statements.
- 8) All material transactions have been recorded in the accounting records and are reflected in the financial statements.
- 9) The effects of all known actual or possible litigation, claims, and assessments have been accounted for and disclosed in accordance with accounting principles generally accepted in the United States of America.
- 10) Guarantees, whether written or oral, under which the Sacramento Municipal Utility District is contingently liable, if any, have been properly recorded or disclosed.

Information Provided

- 11) We have provided you with:
 - a) Access to all information, of which we are aware, that is relevant to the preparation and fair presentation of the financial statements, such as financial records and related data, documentation, and other matters.
 - b) Additional information that you have requested from us for the purpose of the audit.
 - c) Unrestricted access to persons within the entity from whom you determined it necessary to obtain audit evidence.
 - d) Minutes of the meetings of the Board of Directors and committees or summaries of actions of recent meetings for which minutes have not yet been prepared.
- 12) We have disclosed to you results of our assessment of the risk that the financial statements may be materially misstated as a result of fraud.
- 13) We have no knowledge of any fraud or suspected fraud that affects the entity and involves:
 - a) Management,
 - b) Employees who have significant roles in internal control, or
 - c) Others where the fraud could have a material effect on the financial statements.
- 14) We have no knowledge of any allegations of fraud or suspected fraud affecting the entity received in communications from employees, former employees, regulators, or others.
- 15) We have no knowledge of known instances of noncompliance or suspected noncompliance with provisions of laws, regulations, contracts, or grant agreements, or abuse, whose effects should be considered when preparing financial statements.

- 16) We have disclosed to you the names of our related parties and all the related party relationships and transactions, including side agreements, of which we are aware.

Other

- 17) There have been no communications from regulatory agencies concerning noncompliance with, or deficiencies in, financial reporting practices.
- 18) We have a process to track the status of audit findings and recommendations.
- 19) We have identified to you any previous financial audits, attestation engagements, and other studies related to the audit objectives and whether related recommendations have been implemented.
- 20) We have provided our views on reported findings, conclusions, and recommendations, as well as our planned corrective actions, for our report.
- 21) The Sacramento Municipal Utility District has no plans or intentions that may materially affect the carrying value or classification of assets, deferred outflows of resources, liabilities, deferred inflows of resources or net position.
- 22) We are responsible for compliance with federal, state, and local laws, regulations, and provisions of contracts and grant agreements applicable to us, including tax or debt limits, debt contracts, and IRS arbitrage regulations; and we have identified and disclosed to you all federal, state, and local laws, regulations and provisions of contracts and grant agreements that we believe have a direct and material effect on the determination of financial statement amounts or other financial data significant to the audit objectives, including legal and contractual provisions for reporting specific activities in separate funds.
- 23) There are no:
- a) Violations or possible violations of budget ordinances, federal, state, and local laws or regulations (including those pertaining to adopting, approving and amending budgets), provisions of contracts and grant agreements, tax or debt limits, and any related debt covenants whose effects should be considered for disclosure in the financial statements or as a basis for recording a loss contingency, or for reporting on noncompliance, except those already disclosed in the financial statement, if any.
 - b) Other liabilities or gain or loss contingencies that are required to be accrued or disclosed by accounting principles generally accepted in the United States of America.
 - c) Rates being charged to customers other than the rates as authorized by the applicable authoritative body.
 - d) Violations of restrictions placed on revenues as a result of bond resolution covenants such as revenue distribution or debt service funding.
- 24) The Sacramento Municipal Utility District has satisfactory title to all owned assets, and there are no liens or encumbrances on such assets nor has any asset been pledged as collateral.
- 25) The Sacramento Municipal Utility District has complied with all aspects of contractual agreements that would have a material effect on the financial statement in the event of noncompliance.
- 26) The financial statements include all component units as well as joint ventures with an equity interest, and properly disclose all other joint ventures and other related organizations, if any. Component units have been properly presented as either blended or discrete.

- 27) Components of net position (net investment in capital assets; restricted; and unrestricted) are properly classified and, if applicable, approved.
- 28) We believe that we have properly identified all derivative instruments and any embedded derivative instruments that require bifurcation. The Sacramento Municipal Utility District's hedging activities, if any, are in accordance with its documented and approved hedging and risk management policies. The Sacramento Municipal Utility District follows the valuation, accounting, reporting and disclosure requirements outlined in GASB Statement No. 53. We believe the timing, nature, and amounts of all forecasted transactions are probable of occurring. The fair values of all derivatives and hedged items have been determined based on prevailing market prices or by using financial models that we believe are the most appropriate models for valuing such instruments and that incorporate market data and other assumptions that we have determined to be reasonable and appropriate at year end.
- 29) Provisions for uncollectible receivables, if any, have been properly identified and recorded.
- 30) Deposits and investments are properly classified, valued, and disclosed (including risk disclosures, collateralization agreements, valuation methods, and key inputs, as applicable).
- 31) Provision, when material, has been made to reduce excess or obsolete inventories to their estimated net realizable value.
- 32) Capital assets, including infrastructure and intangible assets, are properly capitalized, reported, and, if applicable, depreciated/amortized. Any known impairments have been recorded and disclosed.
- 33) We believe that the estimate made for the pollution remediation liability is in accordance with GASB Statement No. 49 and reflects all known available facts at the time it was recorded.
- 34) Tax-exempt bonds issued have retained their tax-exempt status.
- 35) The operations and rate setting process meet the condition for application of accounting for regulated operations as outlined in GASB Statement No. 62. All regulatory items included in the financial statements have been approved and are being accounted for in accordance with specific action taken by the regulatory body and as such the expectation of future recovery or refund is reasonable.
- 36) We have appropriately disclosed the Sacramento Municipal Utility District's policy regarding whether to first apply restricted or unrestricted resources when an expense is incurred for purposes for which both restricted and unrestricted net position are available and have determined that net position were properly recognized under the policy.
- 37) We acknowledge our responsibility for the required supplementary information (RSI). The RSI is measured and presented within prescribed guidelines and the methods of measurement and presentation have not changed from those used in the prior period. We have disclosed to you any significant assumptions and interpretations underlying the measurement and presentation of the RSI.
- 38) We have provided, and agree with, the findings of specialists in evaluating the pension and OPEB related figures, and energy trading pricing, forecasting and risk assessment and have adequately considered the qualifications of the specialists in determining the amounts and disclosures used in the financial statements and underlying accounting records. We did not give or cause any instructions to be given to specialists with respect to the values or amounts derived in an attempt to bias their work, and we are not otherwise aware of any matters that have had impact on the independence or objectivity of the specialists.

- 39) We believe the information provided by the CalPERS as audited by BDO USA, LLP relating to the net pension asset/liability and related deferred outflows and deferred inflows is accurate and have adequately considered the reasonableness of the amounts and disclosures used in the financial statements and underlying accounting records. We also believe the census data that has been reported to the plan is accurate.
- 40) We believe the information provided by Foster & Foster, Inc. relating to the net OPEB asset/liability and related deferred outflows and deferred inflows is accurate and have adequately considered the reasonableness of the amounts and disclosures used in the financial statements and underlying accounting records. We also believe the census data that has been reported to the plan is accurate.
- 41) We have implemented GASB Statement No. 87, *Leases*, and believe that all required disclosures and accounting considerations have been identified and properly classified in the financial statements in compliance with the Standard.
- 42) We have implemented any lease-related items included within GASB Statement No. 99, *Omnibus 2022* and believe that all required disclosures and accounting considerations have been identified and properly classified in the financial statements in accordance with the Standard.
- 43) We have identified any leases or other contracts that are required to be reported as leases and are in agreement with the key assumptions used in the measurement of any lease related assets, liabilities or deferred inflows of resources.
- 44) We have provided the estimation methods and assumptions used in measuring assets and liabilities reported or disclosed at fair value, including information obtained from brokers, pricing services or third parties. Our valuation methodologies have been consistently applied from period to period. The fair value measurements reported or disclosed represent our best estimate of fair value as the measurement date in accordance with the requirements of GASB Statement No. 72 – *Fair Value Measurement*. In addition, our disclosures related to fair value measurements are consistent with the objectives outlined in GASB Statement No. 72. We have evaluated the fair value information provided to us by brokers, pricing services or other parties that has been used in the financial statements and believe this information to be reliable and consistent with the requirements.
- 45) We have identified and accounted for asset retirement obligations in accordance with GASB Statement No. 83, *Certain Asset Retirement Obligations*.
- 46) The auditing standards define an annual report as “a document, or combination of documents, typically prepared on an annual basis by management or those charged with governance in accordance with law, regulation, or custom, the purpose of which is to provide owners (or similar stakeholders) with information on the entity’s operations and the financial results and financial position as set out in the financial statements.” Among other items, an annual report contains, accompanies, or incorporates by reference the financial statements and the auditors’ report thereon. We do not prepare an annual report that meets this definition.
47. We have reviewed our long-term debt agreements and believe that all terms related to significant events of default with finance-related consequences, termination events with finance-related consequences and subjective acceleration clauses have been properly identified and disclosed.
48. Unused lines of credit, collateral pledged to secure debt and direct borrowings and private placements have been properly identified and disclosed.

Sincerely,

Sacramento Municipal Utility District

Signed: **Paul Lau** Digitally signed by Paul Lau
Date: 2023.02.24
14:05:41 -08'00'
Paul Lau, Chief Executive Officer & General Manager

Signed: **Jennifer Davidson** Digitally signed by Jennifer Davidson
Date: 2023.02.24
14:05:56 -08'00'
Jennifer Davidson, Chief Financial Officer

Signed: 
Laura Lewis, Chief Legal & Government Affairs Officer

Signed: **Russell Mills** Digitally signed by Russell Mills
Date: 2023.02.24
10:33:43 -08'00'
Russel Mills, Director, Treasury & Risk Management and Treasurer

Signed: **Lisa Limcaco** Digitally signed by Lisa Limcaco
Date: 2023.02.24
08:05:15 -08'00'
Lisa Limcaco, Director, Accounting & Controller



February 24, 2023

Baker Tilly US, LLP
4807 Innovate Ln.
Madison, WI 53718

Dear Baker Tilly US, LLP:

We are providing this letter in connection with your audits of the general purpose financial statements of the Sacramento Municipal Utility District Financing Authority, the Northern California Gas Authority No. 1, and the Northern California Energy Authority (SMUD JPA's) as of December 31, 2022 and 2021 and for the years then ended for the purpose of expressing opinions as to whether the financial statements present fairly, in all material respects, the financial position of the SMUD JPA's and the respective changes in financial position and cash flows in conformity with accounting principles generally accepted in the United States of America (GAAP). We confirm that we are responsible for the fair presentation of the previously mentioned financial statements in conformity with accounting principles generally accepted in the United States of America. We are also responsible for adopting sound accounting policies, establishing and maintaining internal control over financial reporting, and preventing and detecting fraud.

Certain representations in this letter are described as being limited to matters that are material. Items are considered material, regardless of size, if they involve an omission or misstatement of accounting information that, in the light of surrounding circumstances, makes it probable that the judgment of a reasonable person relying on the information would be changed or influenced by the omission or misstatement. An omission or misstatement that is monetarily small in amount could be considered material as a result of qualitative factors.

We confirm, to the best of our knowledge and belief, the following representations made to you during your audits.

Financial Statements

- 1) We have fulfilled our responsibilities, as set out in the terms of the audit engagement letter dated November 30, 2022.
- 2) The financial statements referred to above are fairly presented in conformity with accounting principles generally accepted in the United States of America and include all financial information of the SMUD JPA's required by accounting principles generally accepted in the United States of America to be included in the financial reporting entity.
- 3) We acknowledge our responsibility for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.
- 4) We acknowledge our responsibility for the design, implementation, and maintenance of internal control to prevent and detect fraud.
- 5) Significant assumptions we used in making accounting estimates, including those measured at fair value, if any, are reasonable

- 6) Related party relationships and transactions, including revenues, expenditures/expenses, loans, transfers, leasing arrangements, and guarantees, and amounts receivable from or payable to related parties have been appropriately accounted for and disclosed in accordance with the requirements of accounting principles generally accepted in the United States of America.
- 7) All events subsequent to the date of the financial statements and for which accounting principles generally accepted in the United States of America require adjustment or disclosure have been adjusted or disclosed. No other events, including instances of noncompliance, have occurred subsequent to the financial statement date and through the date of this letter that would require adjustment to or disclosure in the aforementioned financial statements.
- 8) All material transactions have been recorded in the accounting records and are reflected in the financial statements.
- 9) We believe the effects of the uncorrected financial statement misstatements summarized in the attached schedule are immaterial, both individually and in the aggregate, to the basic financial statements as a whole.
- 10) The effects of all known actual or possible litigation, claims, and assessments have been accounted for and disclosed in accordance with accounting principles generally accepted in the United States of America.
- 11) Guarantees, whether written or oral, under which the SMUD JPAs are contingently liable, if any, have been properly recorded or disclosed.

Information Provided

- 12) We have provided you with:
 - a) Access to all information, of which we are aware, that is relevant to the preparation and fair presentation of the financial statements, such as financial records and related data, documentation, and other matters.
 - b) Additional information that you have requested from us for the purpose of the audit.
 - c) Unrestricted access to persons within the entity from whom you determined it necessary to obtain audit evidence.
 - d) Minutes of the meetings of governing body(s) or summaries of actions of recent meetings for which minutes have not yet been prepared.
- 13) We have disclosed to you results of our assessment of the risk that the financial statements may be materially misstated as a result of fraud.
- 14) We have no knowledge of any fraud or suspected fraud that affects the entity and involves:
 - a) Management,
 - b) Employees who have significant roles in internal control, or
 - c) Others where the fraud could have a material effect on the financial statements.
- 15) We have no knowledge of any allegations of fraud or suspected fraud affecting the entity received in communications from employees, former employees, regulators, or others.

- 16) We have no knowledge of known instances of noncompliance or suspected noncompliance with provisions of laws, regulations, contracts, or grant agreements, or abuse, whose effects should be considered when preparing financial statements.
- 17) We have disclosed to you the names of our related parties and all the related party relationships and transactions, including side agreements, of which we are aware.

Other

- 18) There have been no communications from regulatory agencies concerning noncompliance with, or deficiencies in, financial reporting practices.
- 19) We have a process to track the status of audit findings and recommendations.
- 20) We have identified to you any previous financial audits, attestation engagements, and other studies related to the audit objectives and whether related recommendations have been implemented.
- 21) We have provided our views on reported findings, conclusions, and recommendations, as well as our planned corrective actions, for our report.
- 22) The SMUD JPAs have no plans or intentions that may materially affect the carrying value or classification of assets, deferred outflows of resources, liabilities, deferred inflows of resources or net position.
- 23) We are responsible for compliance with federal, state, and local laws, regulations, and provisions of contracts and grant agreements applicable to us, including tax or debt limits, debt contracts, and IRS arbitrage regulations; and we have identified and disclosed to you all federal, state, and local laws, regulations and provisions of contracts and grant agreements that we believe have a direct and material effect on the determination of financial statement amounts or other financial data significant to the audit objectives, including legal and contractual provisions for reporting specific activities in separate funds.
- 24) There are no:
 - a) Violations or possible violations of budget ordinances, federal, state, and local laws or regulations (including those pertaining to adopting, approving and amending budgets), provisions of contracts and grant agreements, tax or debt limits, and any related debt covenants whose effects should be considered for disclosure in the financial statements or as a basis for recording a loss contingency, or for reporting on noncompliance, except those already disclosed in the financial statement, if any.
 - b) Other liabilities or gain or loss contingencies that are required to be accrued or disclosed by accounting principles generally accepted in the United States of America.
 - c) Rates or charges being charged to members other than the rates as authorized by the applicable authoritative body.
 - d) Violations of restrictions placed on revenues as a result of bond resolution covenants such as revenue distribution or debt service funding.
- 25) The SMUD JPAs have satisfactory title to all owned assets, and there are no liens or encumbrances on such assets nor has any asset been pledged as collateral.
- 26) The SMUD JPAs have complied with all aspects of contractual agreements that would have a material effect on the financial statement in the event of noncompliance.

- 27) Components of net position (net investment in capital assets; restricted; and unrestricted) are properly classified and, if applicable, approved.
- 28) The SMUD JPAs have no derivative financial instruments such as contracts that could be assigned to someone else or net settled, interest rate swaps, collars or caps.
- 29) Provisions for uncollectible receivables, if any, have been properly identified and recorded.
- 30) Deposits and investments are properly classified, valued, and disclosed (including risk disclosures, collateralization agreements, valuation methods, and key inputs, as applicable).
- 31) Provision, when material, has been made to reduce excess or obsolete inventories to their estimated net realizable value.
- 32) Capital assets, including infrastructure and intangible assets, are properly capitalized, reported, and, if applicable, depreciated/amortized. Any known impairments have been recorded and disclosed.
- 33) Tax-exempt bonds issued have retained their tax-exempt status.
- 34) The operations and rate setting process meet the condition for application of accounting for regulated operations as outlined in GASB Statement No. 62. All regulatory items included in the financial statements have been approved and are being accounted for in accordance with specific action taken by the regulatory body and as such the expectation of future recovery or refund is reasonable.
- 35) We have appropriately disclosed the SMUD JPAs' policies regarding whether to first apply restricted or unrestricted resources when an expense is incurred for purposes for which both restricted and unrestricted net position are available and have determined that net position were properly recognized under the policy.
- 36) We acknowledge our responsibility for the required supplementary information (RSI). The RSI is measured and presented within prescribed guidelines and the methods of measurement and presentation have not changed from those used in the prior period. We have disclosed to you any significant assumptions and interpretations underlying the measurement and presentation of the RSI.
- 37) We have implemented GASB Statement No. 87, *Leases*, for the Sacramento Municipal Utility District Financing Authority and believe that all required disclosures and accounting considerations have been identified and properly classified in the financial statements in compliance with the Standard.
- 38) We have implemented any lease-related items included within GASB Statement No. 99, *Omnibus 2022* for the Sacramento Municipal Utility District Financing Authority and believe that all required disclosures and accounting considerations have been identified and properly classified in the financial statements in accordance with the Standard.
- 39) We have identified any leases or other contracts that are required to be reported as leases and are in agreement with the key assumptions used in the measurement of any lease related assets, liabilities or deferred inflows of resources.
- 40) We have reviewed existing contracts and determined there are no items requiring accounting or reporting as leases for the Northern California Gas Authority No. 1, and the Northern California Energy Authority.

- 41) We have provided the estimation methods and assumptions used in measuring assets and liabilities reported or disclosed at fair value, including information obtained from brokers, pricing services or third parties. Our valuation methodologies have been consistently applied from period to period. The fair value measurements reported or disclosed represent our best estimate of fair value as the measurement date in accordance with the requirements of GASB Statement No. 72- *Fair Value Measurement*. In addition our disclosures related to fair value measurements are consistent with the objectives outlined in GASB Statement No. 72. We have evaluated the fair value information provided to us by brokers, pricing services or other parties that has been used in the financial statements and believe this information to be reliable and consistent with the requirements.
- 42) The auditing standards define an annual report as “a document, or combination of documents, typically prepared on an annual basis by management or those charged with governance in accordance with law, regulation, or custom, the purpose of which is to provide owners (or similar stakeholders) with information on the entity’s operations and the financial results and financial position as set out in the financial statements.” Among other items, an annual report contains, accompanies, or incorporates by reference the financial statements and the auditors’ report thereon. We confirm that we do not prepare and have no plans to prepare an annual report.
- 43) We have identified and accounted for asset retirement obligations in accordance with GASB Statement No. 83, *Certain Asset Retirement Obligations*.
- 44) We have reviewed our long-term debt agreements and believe that all terms related to significant events of default with finance-related consequences, termination events with finance-related consequences and subjective acceleration clauses have been properly identified and disclosed.
- 45) Unused lines of credit, collateral pledged to secure debt and direct borrowings and private placements have been properly identified and disclosed.

Sincerely,

The SMUD JPAs

Signed: **Paul Lau** Digitally signed by Paul Lau
Date: 2023.02.24
13:56:35 -08'00'
Paul Lau, Chief Executive Officer & General Manager

Signed: **Jennifer Davidson** Digitally signed by Jennifer Davidson
Date: 2023.02.24
13:57:26 -08'00'
Jennifer Davidson, Chief Financial Officer

Signed: 
Laura Lewis, Chief Legal & Government Affairs Officer

Signed: **Russell Mills** Digitally signed by Russell Mills
Date: 2023.02.24
10:34:31 -08'00'
Russell Mills, Director, Treasury & Risk Management and Treasurer

Signed: **Lisa Limcaco** Digitally signed by Lisa Limcaco
Date: 2023.02.24
08:06:21 -08'00'
Lisa Limcaco, Director, Accounting & Controller

SUMMARY OF UNCORRECTED FINANCIAL STATEMENT MISSTATEMENTS
December 31, 2022

[illegible]

Accounting changes relevant to SMUD and SMUD – JPAs

Future accounting standards update

GASB Statement Number	Description	Potentially Impacts you	Effective Date
94	Public-Private and Public-Public Partnerships and Availability Payment Arrangements		12/31/23
96	Subscription-Based Information Technology Arrangements		12/31/23
99	Omnibus 2022		12/31/23
100	Accounting Changes and Error Corrections		12/31/24
101	Compensated Absences		12/31/24

Further information on upcoming [GASB pronouncements](#).

Determining if GASB 94 applies for your organization

GASB 94, *Public-Private and Public-Public Partnerships and Availability Payment Arrangements* provides guidance related to public-private and public-public partnerships (PPP) and availability payment arrangements (APA).

A PPP is an arrangement in which an entity contracts with an operator to provide public services by conveying control of the right to operate or use infrastructure or other capital asset. A common example of PPP is a service concession arrangement.

An APA is an arrangement in which an entity compensates an operator for services that may include designing, constructing, financing, maintaining, or operating an asset.

SMUD and SMUD – JPAs should start to identify any contracts that could meet either definition to ensure they are reviewed for applicability and accounted for correctly when the standard is effective. Initial steps include reviewing contracts that did not meet the definition of a lease under GASB 87 and identifying any other agreements where the organization contracts with or partners with another entity to provide services.

Future accounting for subscription-based IT arrangements

Subscription-based IT arrangements include contracts that convey control of the right to use another party's IT software. It would not include any licensing arrangements that provide a perpetual license, which would still be accounted for as an intangible asset. Subscription-based IT arrangements are becoming more and more popular with IT vendors. This standard mirrors the new lease standard. SMUD and SMUD – JPAs will be able to utilize the systems put into place to implement the lease standard to properly account for these contracts. Common examples of these contracts in the utility industry include:

- Leasing space in the cloud
- GIS systems
- SCADA systems
- Some work order or inventory systems as well as some general ledger or billing systems

SMUD and SMUD – JPAs should work with its IT department and department managers to determine a population listing of contracts that would fall under this standard to determine the potential future impact to financial reporting.

Uncorrected misstatements

- Reversal of the 2021 uncorrected misstatement related to recording of interest receivable and related revenue (error was corrected by adjusting the balance in current year activity).

Opinion unit	Total revenues
NCG1	\$216,858

Two-way audit communications

As part of our audit of your financial statements, we are providing communications to you throughout the audit process. Auditing requirements provide for two-way communication and are important in assisting the auditor and you with more information relevant to the audits.

As these past audits are concluded, we use what we have learned to begin the planning process for next year's audits. It is important that you understand the following points about the scope and timing of our next audits:

- a. We address the significant risks of material misstatement, whether due to fraud or error, through our detailed audit procedures.
- b. We will obtain an understanding of the five components of internal control sufficient to assess the risk of material misstatement of the financial statements whether due to error or fraud, and to design the nature, timing and extent of further audit procedures. We will obtain a sufficient understanding by performing risk assessment procedures to evaluate the design of controls relevant to an audit of financial statements and to determine whether they have been implemented. We will use such knowledge to:
 - Identify types of potential misstatements.
 - Consider factors that affect the risks of material misstatement.
 - Design tests of controls, when applicable, and substantive procedures.
- c. We will not express opinions on the effectiveness of internal control over financial reporting or compliance with laws, regulations and provisions of contracts or grant programs. For audits performed in accordance with *Government Auditing Standards*, our report will include a paragraph that states that the purpose of the report is solely to describe the scope of testing of internal control over financial reporting and compliance and the result of that testing and not to provide an opinion on the effectiveness of internal control over financial reporting or on compliance and that the report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering internal control over financial reporting and compliance. The paragraph will also state that the report is not suitable for any other purpose.
- d. The concept of materiality recognizes that some matters, either individually or in the aggregate, are important for fair presentation of financial statements in conformity with generally accepted accounting principles while other matters are not important. In performing the audit, we are concerned with matters that, either individually or in the aggregate, could be material to the financial statements. Our responsibility is to plan and perform the audit to obtain reasonable assurance that material misstatements, whether caused by errors or fraud, are detected.
- e. We plan to use personnel from Audit & Quality Services (AQS or "internal audit") to provide direct assistance to us during the audit. You acknowledge that those personnel will be allowed to follow our instructions and you will not intervene in their work.

Our audit of SMUD will be performed in accordance with auditing standards generally accepted in the United States of America and *Government Auditing Standards*.

We will not express an opinion on the effectiveness of internal control over financial reporting or compliance with laws, regulations, and provisions of contracts or grant programs. For audits done in accordance with *Government Auditing Standards*, our report will include a paragraph that states that the purpose of the report is solely to describe (a) the scope of testing of internal control over financial reporting and compliance and the result of that testing and not to provide an opinion on the effectiveness of internal control over financial reporting or on compliance, (b) the scope of testing internal control over compliance for major programs and major program compliance and the result of that testing and to provide an opinion on compliance but not to provide an opinion on the effectiveness of internal control over compliance and, (c) that the report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering internal control over financial reporting and compliance in considering internal control over compliance and major program compliance. The paragraph will also state that the report is not suitable for any other purpose.

We are very interested in your views regarding certain matters. Those matters are listed here:

- a. We typically will communicate with your top level of management unless you tell us otherwise.
- b. We understand that the governing board has the responsibility to oversee the strategic direction of your organization, as well as the overall accountability of SMUD and SMUD JPAs. Management has the responsibility for achieving the objectives of SMUD and SMUD JPAs.
- c. We need to know your views about your organization's objectives and strategies, and the related business risks that may result in material misstatements.
- d. We anticipate that SMUD and SMUD – JPAs will receive unmodified opinions on its financial statements.
- e. Which matters do you consider warrant particular attention during the audits, and are there any areas where you request additional procedures to be undertaken?
- f. Have you had any significant communications with regulators or grantor agencies?
- g. Are there other matters that you believe are relevant to the audits of the financial statements?

Also, is there anything that we need to know about the attitudes, awareness and actions of the governing body concerning:

- a. SMUD and SMUD JPAs' internal control and its importance in the entity, including how those charged with governance oversee the effectiveness of internal control?
- b. The detection or the possibility of fraud?

We also need to know if you have taken actions in response to developments in financial reporting, laws, accounting standards, governance practices, or other related matters, or in response to previous communications with us.

With regard to the timing of our audits, here is some general information. If necessary, we may do preliminary financial audit work during the months of October-December. Our final financial fieldwork is scheduled during January and/or early February to best coincide with your readiness and report deadlines. After fieldwork, we wrap up our financial audit procedures at our office and may issue drafts of our report for your review. Final copies of our reports and other communications are issued after approval by your staff. This is typically 4-6 weeks after final fieldwork, but may vary depending on a number of factors.

Keep in mind that while this communication may assist us with planning the scope and timing of the audits, it does not change the auditor's sole responsibility to determine the overall audit strategy and the audit plan, including the nature, timing and extent of procedures necessary to obtain sufficient appropriate audit evidence.

We realize that you may have questions on what this all means, or wish to provide other feedback. We welcome the opportunity to hear from you.

.....

Financial Statements

Report of Independent Auditors

.....

December 31, 2022 and 2021



SACRAMENTO MUNICIPAL UTILITY DISTRICT
TABLE OF CONTENTS
As of and for the Years Ended December 31, 2022 and 2021

Report of Independent Auditors	1
Required Supplementary Information - Unaudited	
Management's Discussion and Analysis	4
Basic Financial Statements	
Statements of Net Position	15
Statements of Revenues, Expenses and Changes in Net Position	17
Statements of Cash Flows	18
Notes to Financial Statements	
Note 1. Organization	20
Note 2. Summary of Significant Accounting Policies	20
Note 3. Accounting Change	28
Note 4. Electric Utility Plant	30
Note 5. Investment in Joint Powers Authority	32
Note 6. Component Units	34
Note 7. Cash, Cash Equivalents, and Investments	38
Note 8. Regulatory Deferrals	40
Note 9. Derivative Financial Instruments	42
Note 10. Long-term Debt	48
Note 11. Commercial Paper Notes	53
Note 12. Fair Value Measurement	54
Note 13. Accrued Decommissioning Liability	56
Note 14. Pension Plans	58
Note 15. Other Postemployment Benefits	63
Note 16. Insurance Programs and Claims	67
Note 17. Commitments	68
Note 18. Claims and Contingencies	69
Note 19. Subsequent Events	70

SACRAMENTO MUNICIPAL UTILITY DISTRICT
TABLE OF CONTENTS - CONTINUED
As of and for the Years Ended December 31, 2022 and 2021

Required Supplementary Information - Unaudited

Schedule of Changes in Net Pension Liability and Related Ratios During the Measurement Period – PERS Plan	72
Schedule of Plan Contributions for Pension – PERS Plan	73
Schedule of Changes in Net OPEB Asset or Liability and Related Ratios During the Measurement Period	74
Schedule of Plan Contributions for OPEB	75

Independent Auditors' Report

To the Board of Directors of
Sacramento Municipal Utility District

Report on the Audit of the Financial Statements

Opinion

We have audited the accompanying financial statements of the Sacramento Municipal Utility District, as of and for the years ended December 31, 2022 and 2021, and the related notes to the financial statements, which collectively comprise the Sacramento Municipal Utility District's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Sacramento Municipal Utility District as of December 31, 2022 and 2021, and the changes in financial position and cash flows for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS) and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States (GAS). Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Sacramento Municipal Utility District and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Emphasis of Matter

As discussed in Note 3, the Sacramento Municipal Utility District adopted the provisions of GASB Statement No. 87, *Leases*, effective January 1, 2022. Accordingly, the accounting changes have been retroactively applied to the prior period presented. Our opinion is not modified with respect to this matter.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America; and for the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Sacramento Municipal Utility District's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS and GAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS and GAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Sacramento Municipal Utility District's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Sacramento Municipal Utility District's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings and certain internal control-related matters that we identified during the audit.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the required supplementary information, as listed in the table of contents be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Reporting Required by *Government Auditing Standards*

In accordance with *Government Auditing Standards*, we have also issued our report dated February 24, 2023 on our consideration of the Sacramento Municipal Utility District's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the Sacramento Municipal Utility District's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Sacramento Municipal Utility District's internal control over financial reporting and compliance.

Baker Tilly US, LLP

Madison, Wisconsin
February 24, 2023

Sacramento Municipal Utility District Management's Discussion and Analysis - Unaudited For the Years Ended December 31, 2022 and 2021

Using this Financial Report

This annual financial report for Sacramento Municipal Utility District (SMUD) consists of management's discussion and analysis and the financial statements, including notes to financial statements. The Financial Statements consist of the Statements of Net Position, the Statements of Revenue, Expenses and Changes in Net Position and the Statements of Cash Flows.

SMUD maintains its accounting records in accordance with Generally Accepted Accounting Principles for proprietary funds as prescribed by the Governmental Accounting Standards Board (GASB). SMUD's accounting records generally follow the Uniform System of Accounts for Public Utilities and Licensees prescribed by the Federal Energy Regulatory Commission (FERC), except as it relates to accounting for contributions of utility property in aid of construction.

Overview of the Financial Statements

The following discussion and analysis of the financial performance of SMUD provides an overview of the financial activities for the years ended December 31, 2022 and 2021. This discussion and analysis should be read in conjunction with the financial statements, required supplementary information and accompanying notes, which follow this section.

The Statements of Net Position provide information about the nature and amount of resources and obligations at a specific point in time.

The Statements of Revenues, Expenses and Changes in Net Position report all SMUD's revenues and expenses for the periods shown.

The Statements of Cash Flows report the cash provided and used by operating activities, as well as other cash sources, such as investment income and debt financing, and other cash uses such as payments for debt service and capital additions.

The Notes to Financial Statements provide additional detailed information to support the financial statements.

Required Supplementary Information provides additional detailed disclosures as required by the GASB.

Organization and Nature of Operations

SMUD was formed and operates under the State of California Municipal Utility District Act (Act). The Act gives SMUD the rights and powers to fix rates and charges for commodities or services it furnishes, and to incur indebtedness and issue bonds or other obligations. As a community-owned utility, SMUD is not subject to regulation or oversight by the California Public Utilities Commission.

SMUD is responsible for the acquisition, generation, transmission, and distribution of electric power to its service area, with a population of approximately 1.5 million – most of Sacramento County and small adjoining portions of Placer and Yolo Counties. The Board of Directors (Board) determines SMUD's rates.

SMUD's vision is to be the trusted partner with its customers and the community, providing innovative solutions to ensure energy affordability and reliability, improve the environment, reduce the region's carbon footprint, and enhance the vitality of the community. SMUD's business strategy focuses on serving its customers in a progressive, forward-looking manner, addressing current regulatory and legislative issues and potential competitive forces. This includes ensuring financial stability by

establishing rates that provide acceptable cash coverage of all fixed charges, taking into consideration the impact of capital expenditures and other factors on cash flow.

2030 Zero Carbon Plan

In July 2020, the Board adopted a Climate Emergency Declaration to work toward an ambitious goal of delivering carbon neutral electricity by 2030 and indicating a strong commitment to finding additional opportunities to accelerate decarbonization in our energy supply. Building on the Board's Climate Emergency Declaration, SMUD's 2030 Clean Energy Vision calls for absolute zero carbon emission in its power supply by 2030.

In 2021, SMUD's 2030 Clean Energy Vision was translated into the 2030 Zero Carbon Plan, the flexible road map to achieve a zero-carbon power supply by 2030. The plan guides elimination of GHG emissions from SMUD's power plants, development of new distributed energy resource business models, research of emerging grid-scale carbon-free technologies, and expansion of investments in proven clean technologies while ensuring all communities benefit from the plan.

COVID-19 Global Pandemic

In 2022, SMUD continued to support its customers during the COVID-19 pandemic. At the start of the pandemic in March 2020, SMUD provided its electric customers with suspension of disconnections and stopped collections, late fee, and security deposit processes for all customers to support them during this difficult time. In February 2022, normal payment, late fees, and disconnection policies resumed with disconnections occurring in mid-April 2022. SMUD is working proactively with electric customers to create payment arrangements for those who need them. The effects of the pandemic have resulted in an increase in the number of past due customer accounts.

In 2022 and 2021, SMUD received \$9.9 million and \$41.4 million, respectively, in California Arrearage Payment Program (CAPP) funding that was applied to customers' bills, to support customers amid the ongoing challenges of the COVID-19 pandemic. The CAPP offers financial assistance for California energy utility customers to help reduce past due energy bill balances that increased during the COVID-19 pandemic. As of December 31, 2022 and 2021, the uncollectible reserve for account write-offs was \$38 million and \$69 million, respectively. Other financial and operational impacts to SMUD associated with COVID-19 are noted throughout this report.

Requests for Information

For more information about SMUD, visit our website at www.smud.org or contact us at customerservices@smud.org.

FINANCIAL POSITION

The following table summarizes the financial position as of December 31 (in millions).

CONDENSED STATEMENTS OF NET POSITION

	<u>2022</u>	<u>2021 (restated)*</u>	<u>2020</u>
Assets			
Electric Utility Plant - net	\$ 4,001	\$ 3,891	\$ 3,747
Restricted and Designated Assets	183	289	188
Current Assets	1,426	1,244	1,239
Noncurrent Assets	<u>1,581</u>	<u>1,492</u>	<u>1,515</u>
Total Assets	7,191	6,916	6,689
Deferred Outflows of Resources	<u>268</u>	<u>143</u>	<u>271</u>
Total Assets and Deferred Outflows of Resources	<u>\$ 7,459</u>	<u>\$ 7,059</u>	<u>\$ 6,960</u>
Liabilities			
Long-Term Debt - net	\$ 2,886	\$ 3,081	\$ 3,259
Current Liabilities	802	494	437
Noncurrent Liabilities	<u>428</u>	<u>216</u>	<u>694</u>
Total Liabilities	4,116	3,791	4,390
Deferred Inflows of Resources	976	972	613
Net Position	<u>2,367</u>	<u>2,296</u>	<u>1,957</u>
Total Liabilities, Deferred Inflows of Resources, and Net Position	<u>\$ 7,459</u>	<u>\$ 7,059</u>	<u>\$ 6,960</u>

*See Note 3 of the financial statements for discussion on the restatement of the December 31, 2021 Statements of Net Position.

TOTAL ASSETS AND DEFERRED OUTFLOWS OF RESOURCES

2022 Compared to 2021

Total assets in 2022 increased \$275 million or 4.0% over 2021, primarily due to the following:

- An increase of \$110 million in electric utility plant – net. See Capital Program below for further information.
- A \$106 million decrease in restricted and designated assets primarily due to a \$28 million decrease in a net pension asset and a \$57 million decrease in net Other Postemployment Benefits (OPEB) asset based on the most recent actuarial results, a \$30 million Rate Stabilization Fund transfer to revenue as a result of lower than budgeted energy deliveries from the Western Area Power Administration (Western), and a \$25 million Hydro Rate Stabilization Fund (HRSF) transfer to revenue for below average precipitation, offset by \$22 million Rate Stabilization Fund transfer from revenues for net auction proceeds received and funds spent on Assembly Bill (AB) 32 programs.
- A \$182 million increase in current assets is primarily due to \$115 million increase in hedging derivative instruments due to the gas hedging program and \$44 million increase in wholesale and other receivables due to larger sales of power and gas sales in December.
- A \$89 million increase in noncurrent assets primarily due to a \$61 million increase in regulatory costs for future recovery due to recognition of those costs, a \$48 million increase in hedging derivative instruments due to the gas hedging program, offset by a \$30 million decrease in prepaid gas supply due to gas delivered.

Deferred outflows of resources in 2022 increased \$125 million or 87.4% from 2021, primarily due to increases in the unrealized pension and OPEB gains.

2021 Compared to 2020

Total assets in 2021 increased \$227 million or 3.4% over 2020, primarily due to the following:

- An increase of \$144 million in electric utility plant – net. See Capital Program below for further information.
- A \$101 million increase in restricted and designated assets primarily due to a \$28 million increase in a net pension asset and a \$57 million increase in net Other Postemployment Benefits (OPEB) asset based on the most recent actuarial results, and the \$35 million deferral of 2021 operating revenues for recognition in future years to offset one-time expenditures not identified in the annual budget, offset by a \$19 million Hydro Rate Stabilization Fund (HRSF) transfer to revenue for below average precipitation.
- A \$23 million decrease in noncurrent assets primarily due to a \$39 million decrease in regulatory costs for future recovery due to recognition of those costs, a \$26 million decrease in prepaid gas supply due to gas delivered, offset by a \$29 million increase in hedging derivative instruments due to the gas hedging program.

Deferred outflows of resources in 2021 decreased \$128 million or 47.2% from 2020, primarily due to decreases in the unrealized pension and OPEB losses.

TOTAL LIABILITIES AND DEFERRED INFLOWS OF RESOURCES

2022 Compared to 2021

Total liabilities in 2022 increased \$325 million or 8.6% over 2021, primarily due to an increase in current liabilities of \$308 million due to \$150 million issuance of commercial paper and \$106 million increase in purchased power payable due to high purchased power prices in December. Non-current liabilities increased due to a \$235 million increase in net pension liability based on the most recent actuarial results. This is offset by a decrease in long-term debt- net of \$195 million.

Net position in 2022 increased \$71 million or 3.1% over 2021 based on results of operations.

2021 Compared to 2020

Total liabilities in 2021 decreased \$599 million or 13.6% over 2020, primarily due to a decrease in long-term debt-net of \$178 million and a decrease in noncurrent liabilities of \$478 million, primarily due a \$470 million reduction in net pension liability based on the most recent actuarial results.

Deferred inflows of resources in 2021 increased \$359 million or 58.6% from 2020, primarily due to increases in the unrealized pension and OPEB gains.

Net position in 2021 increased \$339 million or 17.3% over 2020 based on results of operations.

RESULTS OF OPERATIONS

The following table summarizes the operating results for the years ended December 31 (in millions).

CONDENSED STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

	<u>2022</u>	<u>2021 (restated)*</u>	<u>2020</u>
Operating revenues	\$ 2,147	\$ 1,790	\$ 1,588
Operating expenses	<u>(2,065)</u>	<u>(1,450)</u>	<u>(1,389)</u>
Operating income	82	340	199
Other revenues/(expenses)	90	108	63
Interest charges	<u>(101)</u>	<u>(109)</u>	<u>(109)</u>
Change in net position	71	339	153
Net position - beginning of year	<u>2,296</u>	<u>1,957</u>	<u>1,804</u>
Net position - end of year	<u>\$ 2,367</u>	<u>\$ 2,296</u>	<u>\$ 1,957</u>

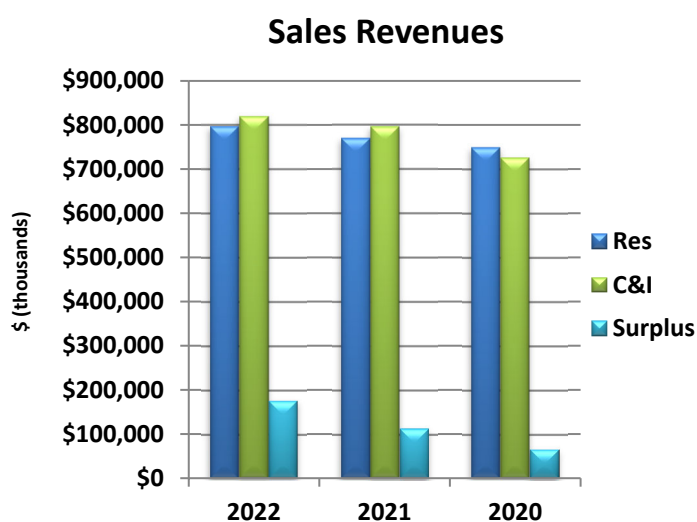
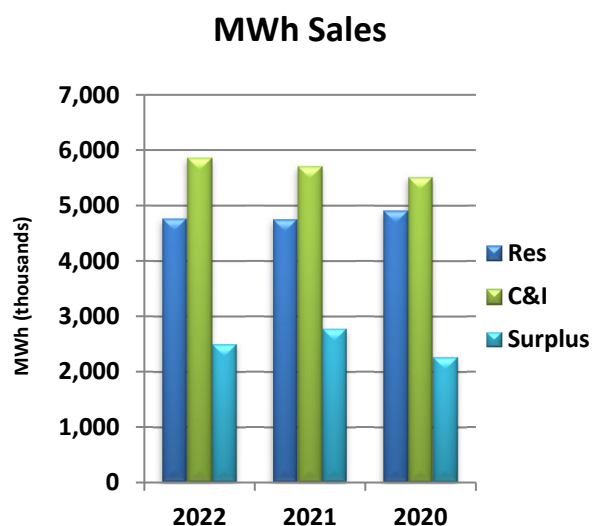
*See Note 3 of the financial statements for discussion on the restatement of the December 31, 2021 Statements of Net Position.

2022 Compared to 2021

OPERATING REVENUES

Total operating revenues were \$2,147 million for 2022, an increase of \$357 million or 19.9 percent over 2021 operating revenues. The residential MWh sales increased 0.3 percent and sales revenues increased 3.6 percent compared to 2021, although usage is flat, the increase is related to the shift in the customer load shape. The commercial & industrial MWh sales increased 2.7 percent and sales revenues increased 2.9 percent compared to 2021, primarily due to more commercial businesses and schools returning to in-person 2022.

The following charts show the megawatt hour (MWh) sales, and sales revenue for the past three years by surplus energy sales (Surplus), commercial, industrial, and other (C&I), and residential (Res) customers:



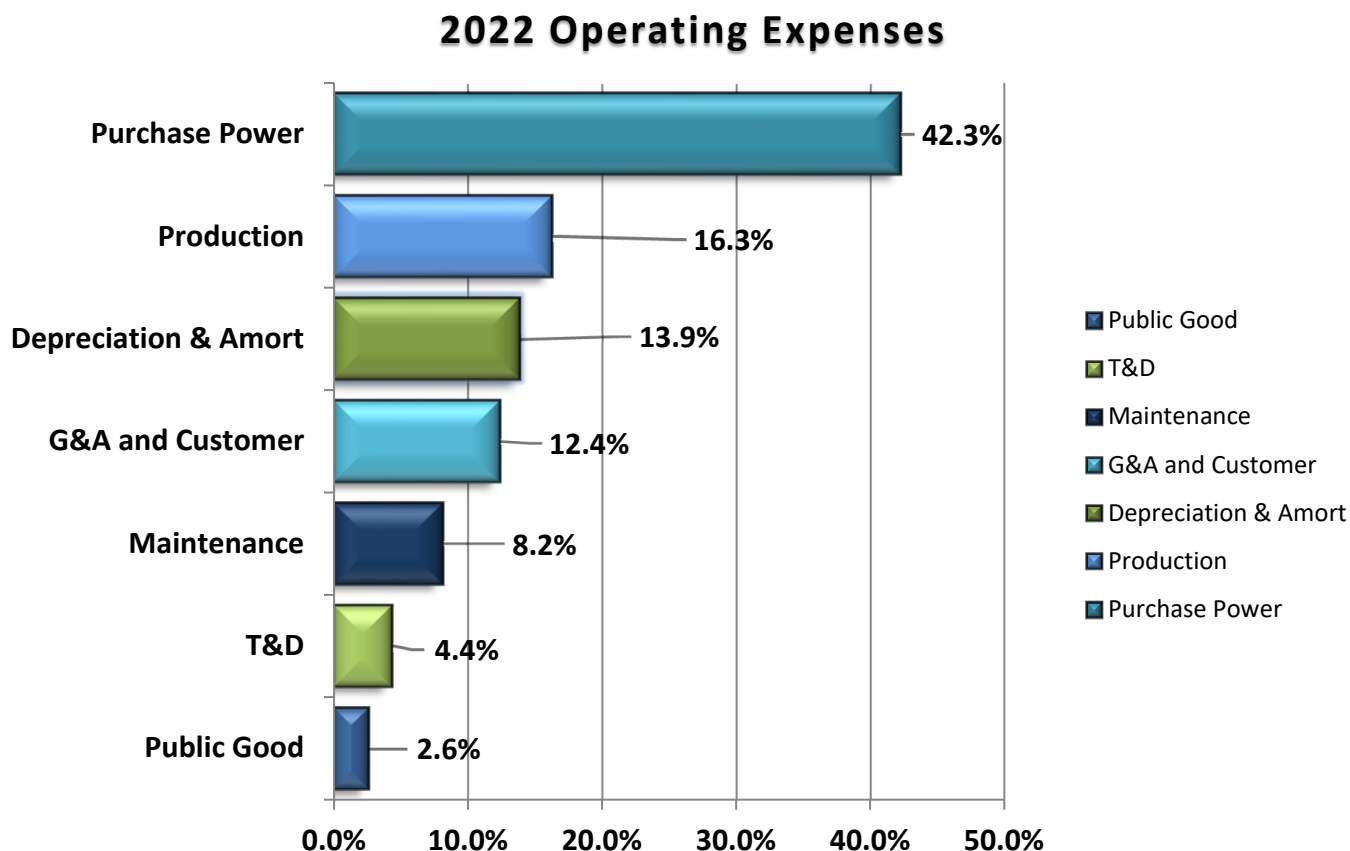
Wholesale revenues are comprised of both surplus gas and energy sales which are part of the operational strategy in managing fuel and energy costs. In 2022, energy sales were higher by \$62 million as compared to 2021 due to higher energy prices and energy sales. Surplus gas sales were higher than 2021 by \$96 million primarily due the unplanned outage of CPP and selling at higher gas prices in 2022.

OPERATING EXPENSES

Total operating expenses were \$2,066 million for 2022, an increase of \$615 million or 42.4 percent over 2021.

- Purchased power increased by \$478 million or 120.8 percent primarily due to the unplanned outage of Cosumnes Power Plant (CPP), increased load, reduced hydro, and record high heat wave in September that led to increase procurement of power.
- Production expense decreased by \$21 million or 6.0 percent primarily due to unplanned CPP outage for majority of the year.
- General, administrative and customer increased by \$102 million or 66.6 percent primarily due to SMUD establishing regulatory accounting in 2022 for pension and OPEB regulatory costs and/or credits to defer recognition of certain expenses related to the amortization of pension and OPEB deferred outflows and deferred inflows of resources compared to 2021 there were large credit adjustments related to pension and OPEB based on the most recent actuarial results.
- Maintenance increased by \$32 million or 23.1 percent primarily due to increased costs related to tree trimming and JPA thermal plant maintenance.

The following chart illustrates 2022 operating expenses by expense classification and percentage of the total:



OTHER REVENUES

Total other revenues (net) were \$90 million for 2022, a decrease of \$18 million or 16.7 percent over 2021. The decrease is due to receiving \$41 million in grant revenues from CAPP funding in 2021, offset by the increase in investment revenue related to gas swaps.

2021 Compared to 2020

RESULTS OF OPERATIONS

- Total operating revenues were \$1,790 million for 2021, an increase of \$202 million or 12.7 percent over 2020 operating revenues. The residential MWh sales decreased 3.2 percent and sales revenues increased 2.7 percent compared to 2020, primarily due to employees returning to work and children returning to school which reduced usage and shifted the customer load shape. The commercial & industrial MWh sales increased 3.5 percent and sales revenues increased 9.6 percent compared to 2020, primarily due to commercial businesses and schools re-opening in 2021 compared to the California mandated shut down and limited re-openings of commercial businesses in 2020.
- In 2021, energy sales were higher by \$47 million as compared to 2020 due to higher energy prices and energy sales. Surplus gas sales were higher than 2020 by \$65 million primarily due to higher gas prices in 2021.
- Total operating expenses were \$1,450 million for 2021, an increase of \$61 million or 4.4 percent over 2020.
 - Purchased power increased by \$48 million or 13.7 percent due to higher load due to warmer than anticipated weather and lower hydro generation due to lower precipitation levels.
 - Production expense increased by \$80 million or 28.7 percent due to lower hydro generation due to lower precipitation levels led to increased thermal plant generation.
 - General, administrative and customer decreased by \$88 million or 36.3 percent due to lower costs related to reduced customer call volumes due to COVID and the continued moratorium on electric shut offs, reduction in customer programs due to COVID and reduction in administrative and labor costs related to employees working remotely. In addition, large adjustments related to GASB 75 OPEB and GASB 68 Pension based on the most recent actuarial results.
 - Public Good decreased by \$11 million or 18.7 percent due to lower expenditure for research and development programs and energy efficiency program incentives.
- Total other revenues (net) were \$108 million for 2021, an increase of \$45 million or 71.3 percent over 2020. In 2021, SMUD recorded \$41 million as grant revenues from CAPP funding received for delinquent customer balances and a \$15 million settlement related to Rancho Seco.

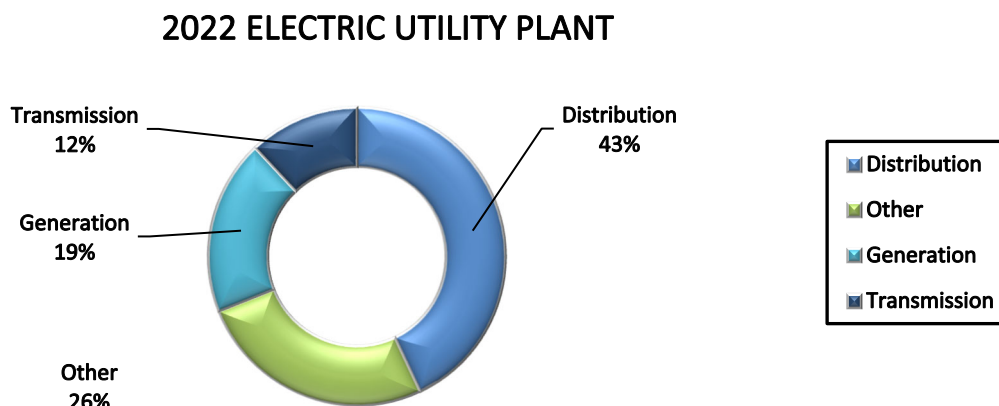
CAPITAL PROGRAM

SMUD's electric utility plant includes production, transmission and distribution, and general plant facilities. The following table summarizes the balance of the electric utility plant as of December 31 (in millions).

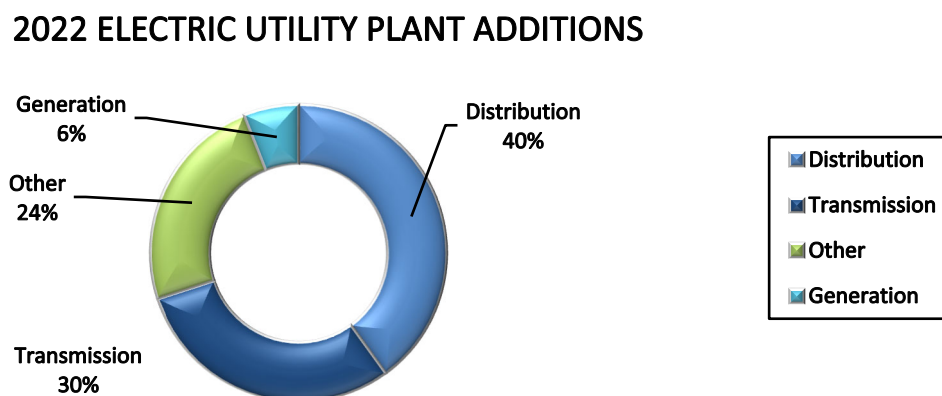
	<u>2022</u>	<u>2021(restated)*</u>	<u>2020</u>
Electric Utility Plant	\$ 7,549	\$ 7,232	\$ 6,886
Accumulated Depreciation and Amortization	<u>(3,548)</u>	<u>(3,341)</u>	<u>(3,139)</u>
Electric Utility Plant - Net	<u>\$ 4,001</u>	<u>\$ 3,891</u>	<u>\$ 3,747</u>

*See Note 3 of the financial statements for discussion on the restatement of the December 31, 2021 Statements of Net Position.

The following chart shows the breakdown of 2022 Electric Utility Plant - net by major plant category:



The following chart shows the breakdown of 2022 Electric Utility Plant capitalized additions by major plant category:



Details of SMUD's electric utility plant asset balances and activity are included in Note 4 in the Notes to Financial Statements. SMUD's capital program includes investment in generation, transmission, distribution, buildings, vehicles, technology, and other assets critical to meeting the energy needs of our customers. Capital investments are financed with revenues from operations, bond proceeds, investment income and cash on hand.

The following table shows actual capital program expenditures for the last two years and budgeted capital expenditures for 2022 (in millions).

	Budget 2023	Actual 2022	Actual 2021
Capital Program:			
Transmission & Distribution	\$ 180	\$ 154	\$ 183
Generation	336	124	52
Other	108	70	49
Total	<u>\$ 624</u>	<u>\$ 348</u>	<u>\$ 284</u>

In 2022 and 2021, SMUD actual expenditures included work for Substation E & G, Advanced Distribution Management System, White Rock Tunnel Bolt Replacement, the purchase and operationalization of Chili Bar Hydroelectric facility, Substation J land purchase, distribution line work and continued work on UARP relicensing projects.

Major capital expenditures planned in 2023 include completing work for Station G, additions to our wind farm with Solano Phase IV, the Country Acres solar project, and ongoing improvements in our Upper American River Project (UARP) area as part of our hydro relicensing. Programmatic capital planned in 2023 includes cable and pole replacement programs, installing new meters, and new fleet purchases. Technology investments included in the 2023 Budget are to complete the Advanced Distribution Management System & Outage Management System (ADMS-OMS) and improvements to HR systems and network communications systems with our Talent Technology Transformation (T3) project.

LIQUIDITY AND CAPITAL RESOURCES

SMUD maintains a strong liquidity position by setting a minimum number of days cash on hand and managing a \$400 million commercial paper program. Our current days cash threshold is 150 days, the minimum amount of cash on hand before triggering a new debt or commercial paper issuance to replenish cash balances. On December 31, 2022, the days cash on hand was 214 days. The commercial paper program allows for short-term borrowing when needed in lieu of issuing long-term debt, similar to a credit card or line of credit. On December 31, 2022, SMUD had \$150 million of commercial paper notes outstanding. A strong liquidity position is important in demonstrating to investors and rating agencies that SMUD can withstand various financial stresses.

In addition, SMUD targets strong financial metrics in cash flow coverage with its fixed charge ratio. The Board sets a minimum fixed charge of 1.50 times operating cash flow; however, we aim for a minimum of 1.70 as a standard. On December 31, 2022, the fixed charge ratio was 1.65 which decreased below our standard but above our Board set minimum due to the higher commodity costs incurred from the CPP unplanned outage, record heat wave in September and higher commodity prices.

FINANCING ACTIVITIES

In June 2022, SMUD issued \$132.7 million of 2022 Series J Revenue Refunding Bonds. The purpose of this transaction was to refund the fixed rate debt associated with 2012 Series Y bonds and terminated the associated interest rate swap entered into in 2019. This locked in the refunding's interest rates, generating \$28.6 million in Net Present Value savings, or annual cash flow savings of \$3.1 million through 2033.

DEBT SERVICE COVERAGE

Debt service coverage for long-term debt was 1.87 times and 2.50 times in 2022 and 2021, respectively. SMUD's bond resolutions contain various covenants that include requirements to maintain minimum debt service coverage ratios of at least 1.40 times, certain other financial ratios, stipulated minimum funding of revenue bond reserves, and various other requirements including a rate covenant to raise rates to maintain minimum debt service coverage. SMUD is in compliance with all debt covenants.

CREDIT RATINGS

We proactively manage our strong financial position to maintain high credit ratings. These strong credit ratings improve access to credit markets and result in a lower cost of borrowing. Both quantitative (financial strength) and qualitative (business and operating characteristics) factors are considered by the credit rating agencies in establishing a company's credit rating. As of December 31, 2022, SMUD's bonds had an underlying rating of "AA" from Standard & Poor's, "AA" from Fitch, and "Aa3" from Moody's. Some of SMUD's bonds are insured and are rated by the rating agencies at the higher of the insurer's rating or SMUD's underlying rating.

COMPETITIVE RATES

The Board has independent authority to set SMUD's rates and charges. Changes in rates require a public hearing and formal action by the Board. SMUD has committed to our customers in keeping rates low while continuing to deliver safe, reliable, and environmentally responsible power and the products and services they value.

In June 2019, the Board approved the 2020 and 2021 rate proposals including a 2.50 percent rate increase effective January 1, 2021, and a 2.0 percent rate increase effective October 1, 2021, for all customer classes. In October 2021, SMUD started transitioning commercial customers to the new restructured rates. While the restructure is revenue neutral, it will improve SMUD's revenue stability and better align electric charges with costs.

In 2021, the Board approved the Solar and Storage Rate (SSR), which will reduce the cost shift from Net Energy Metering (NEM) and will incentivize customers to invest in solar paired with storage, providing greater benefits to SMUD and our customers. In 2021, the Board approved the 2022 and 2023 rate proposals including rate increases of 1.5% in 2022 and 2% in 2023, which is well below the estimated rate of inflation. This ensures the necessary revenue to meet SMUD's financial obligations, key financial metrics, and delivery of our 2030 Zero Carbon Plan.

Progress on several key rates and programs, including the Virtual Solar (VS) program and our optional residential Critical Peak Pricing (CPP) rate, both of which will be available in June 2022. The VS program will provide the benefits of solar to our under-resourced customers living in multi-family housing, and our residential CPP rate will provide customers the opportunity to reduce their bills and help the environment while contributing to the 2030 Zero Carbon Plan.

Even with these increases, SMUD's rates continue to remain amongst the lowest in the state. In 2022, the average system rate was 45 percent below the average rate of the nearest investor-owned utility.

ENERGY RISK MANAGEMENT

SMUD's commodity costs have prices locked in for most of our expected energy requirements to ensure cost and rate stability for customers. Only a small portion of budgeted energy purchases are exposed to short-term market price fluctuations – a beneficial practice, especially during the price volatility currently reflected in California power and energy prices.

SMUD has mitigation measures in place for higher commodity costs due to reduced hydroelectric production that will lead to higher purchased power. In April 2022, \$25.1 million was transferred from the HRSF to revenue as a result of low precipitation. At December 31, 2022, the HRSF was \$31.0 million and \$56.6 million in the Rate Stabilization Fund (RSF), net of Low Carbon Fuel Standard and Cap and Trade funds. These reserve funds help absorb higher energy costs when hydroelectric production is down and serve as a buffer against unexpected financial developments.

RESOURCE PLANNING AND GENERATION UPDATE

In March 2021, the Board adopted the 2030 Zero Carbon Plan, a flexible road map to achieving its zero carbon goal while ensuring all customers and communities that are served share in the benefits of decarbonization. While SMUD has always had an Integrated Resource Plan target to meet or exceed goals established by the State for renewable energy and the reduction of carbon emissions, the 2030 Zero Carbon Plan greatly accelerates these efforts, working toward eliminating carbon emissions from SMUD's power supply by 2030.

The Board formally approved the 2022 Integrated Resource Plan (IRP) update in June 2022 and filed this update with the California Energy Commission (CEC) in September. Implementation of the plan has SMUD embarking on new pathways to completely decarbonize energy supply, including eliminating GHG emissions from the thermal power plants, developing new distributed energy resource business models, researching emerging grid-scale and carbon-free technologies and expanding investments in proven clean technologies.

DECOMMISSIONING

SMUD has made significant progress toward completing the Decommissioning Plan for its Rancho Seco nuclear facility, which was shut down in 1989. The plan consists of two phases that allow SMUD to terminate its possession-only license. Phase I of the decommissioning was completed at the end of 2008. Phase II consists of a storage period for the Class B and Class C radioactive waste overseen by the existing facility staff, followed by shipment of the waste for disposal, and then complete termination of the possession-only license. SMUD also established and funded an external decommissioning trust fund as part of its assurance to the Nuclear Regulatory Commission (NRC) to pay for the cost of decommissioning. Shipment of the previously stored Class B and Class C radioactive waste was completed in November 2014 to a low-level radioactive waste facility located in Andrews, Texas. The remaining Phase II decommissioning activities required for termination of the possession-only license commenced in 2015. In September 2017, SMUD formally requested the termination of the possession-only license and termination of the possession-only license was completed in 2018.

As part of the Decommissioning Plan, the nuclear fuel and Greater Than Class C (GTCC) radioactive waste is being stored in a dry storage facility constructed by SMUD and licensed separately by the NRC. The U.S. Department of Energy (DOE), under the Nuclear Waste Policy Act of 1982, was responsible for permanent disposal of used nuclear fuel and GTCC radioactive waste and SMUD contracted with the DOE for removal and disposal of that waste. The DOE has yet to fulfill its contractual obligation to provide a permanent waste disposal site. SMUD has filed a series of successful lawsuits against the federal government for recovery of the past spent fuel costs, with recoveries to date in excess of \$123.1 million. SMUD will continue to pursue cost recovery claims until the DOE fulfills its obligation.

The total Accrued Decommissioning balance in the Statements of Net Position, including Rancho Seco and other ARO's, amounted to \$95.9 million as of December 31, 2022.

SIGNIFICANT ACCOUNTING POLICIES

In accordance with GASB No. 62, the Board has taken regulatory actions for ratemaking that result in the deferral of expense and revenue recognition. These actions result in regulatory assets and liabilities. SMUD has regulatory assets that cover costs related to decommissioning, derivative financial instruments, debt issuance costs, pension costs, and OPEB costs. As of December 31, 2022, total regulatory assets were \$813.6 million. SMUD also has regulatory credits that cover costs related to contributions in aid of construction, the RSF and HRSF, EAPR reserves, SB-1, grant revenues, and Transmission Agency of Northern California operations costs. As of December 31, 2022, total regulatory credits were \$620.4 million.

**SACRAMENTO MUNICIPAL UTILITY DISTRICT
STATEMENTS OF NET POSITION**

	December 31,	
	2022	2021 (restated)
	(thousands of dollars)	
ASSETS		
ELECTRIC UTILITY PLANT		
Plant in service	\$ 7,201,276	\$ 6,864,040
Less accumulated depreciation and amortization	(3,547,995)	(3,340,797)
Plant in service - net	3,653,281	3,523,243
Construction work in progress	347,758	367,297
Total electric utility plant - net	4,001,039	3,890,540
RESTRICTED AND DESIGNATED ASSETS		
Revenue bond and debt service reserves	119,385	120,024
Nuclear decommissioning trust fund	8,980	8,874
Rate stabilization fund	156,016	188,992
Net pension asset	-0-	27,738
Net other postemployment benefits asset	-0-	57,532
Other funds	30,424	22,411
Less current portion	(131,852)	(136,663)
Total restricted and designated assets	182,953	288,908
CURRENT ASSETS		
Unrestricted cash and cash equivalents	268,653	584,998
Unrestricted investments	359,211	45,378
Restricted and designated cash and cash equivalents	30,583	46,828
Restricted and designated investments	101,269	89,835
Receivables - net:		
Retail customers	181,606	190,987
Wholesale and other	102,305	58,628
Regulatory costs to be recovered within one year	49,312	38,303
Investment derivative instruments maturing within one year	5,870	1,354
Hedging derivative instruments maturing within one year	151,349	36,620
Inventories	113,120	99,941
Prepaid gas to be delivered within one year	29,452	26,059
Prepayments and other	32,881	25,330
Total current assets	1,425,611	1,244,261
NONCURRENT ASSETS		
Regulatory costs for future recovery	764,246	703,748
Prepaid gas	637,000	666,452
Prepaid power and capacity	173	380
Investment derivative instruments	329	803
Hedging derivative instruments	85,675	37,753
Energy efficiency loans - net	732	1,298
Credit support collateral deposits	11,650	11,650
Due from affiliated entity	31,149	29,674
Prepayments and other	50,506	40,738
Total noncurrent assets	1,581,460	1,492,496
TOTAL ASSETS	7,191,063	6,916,205
DEFERRED OUTFLOWS OF RESOURCES		
Accumulated decrease in fair value of hedging derivative instruments	28,438	22,600
Deferred pension outflows	175,478	81,334
Deferred other postemployment benefits outflows	53,674	25,113
Deferred asset retirement obligations outflows	2,066	1,775
Unamortized bond losses	8,389	12,261
TOTAL DEFERRED OUTFLOWS OF RESOURCES	268,045	143,083
TOTAL ASSETS AND DEFERRED OUTFLOWS OF RESOURCES	\$ 7,459,108	\$ 7,059,288

The accompanying notes are an integral part of these financial statements.

**SACRAMENTO MUNICIPAL UTILITY DISTRICT
STATEMENTS OF NET POSITION**

	December 31,	
	2022	2021 (restated)
	(thousands of dollars)	
LIABILITIES		
LONG-TERM DEBT - net	\$ 2,885,844	\$ 3,081,707
CURRENT LIABILITIES		
Commercial paper notes	150,000	-0-
Accounts payable	159,463	121,925
Purchased power payable	135,570	30,103
Credit support collateral obligation	534	3,575
Long-term debt due within one year	138,195	132,150
Accrued decommissioning	7,549	6,889
Interest payable	49,784	50,739
Accrued salaries and compensated absences	60,209	60,433
Investment derivative instruments maturing within one year	3,103	2,757
Hedging derivative instruments maturing within one year	21,636	18,232
Customer deposits and other	75,911	67,064
Total current liabilities	801,954	493,867
NONCURRENT LIABILITIES		
Net pension liability	235,451	-0-
Net other postemployment benefits liability	6,753	-0-
Accrued decommissioning	88,385	88,168
Investment derivative instruments	1,424	4,786
Hedging derivative instruments	6,802	4,368
Self insurance and other	89,910	118,146
Total noncurrent liabilities	428,725	215,468
TOTAL LIABILITIES	4,116,523	3,791,042
DEFERRED INFLOWS OF RESOURCES		
Accumulated increase in fair value of hedging derivative instruments	237,025	74,374
Regulatory credits	620,373	543,014
Deferred pension inflows	26,656	229,707
Deferred other postemployment benefits inflows	49,838	94,902
Deferred lease inflows	18,187	17,373
Unamortized bond gains	20,473	9,246
Unearned revenue	3,230	3,369
TOTAL DEFERRED INFLOWS OF RESOURCES	975,782	971,985
NET POSITION		
Net investment in capital assets	1,491,548	1,349,688
Restricted:		
Revenue bond and debt service	60,048	64,793
Net pension asset	-0-	27,738
Net other postemployment benefits asset	-0-	57,532
Other funds	29,890	18,836
Unrestricted	785,317	777,674
TOTAL NET POSITION	2,366,803	2,296,261
COMMITMENTS, CLAIMS AND CONTINGENCIES (Notes 17 and 18)		
TOTAL LIABILITIES, DEFERRED INFLOWS OF RESOURCES, AND NET POSITION	\$ 7,459,108	\$ 7,059,288

The accompanying notes are an integral part of these financial statements.

SACRAMENTO MUNICIPAL UTILITY DISTRICT
STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

	Year Ended December 31,	
	2022	2021 (restated)
	(thousands of dollars)	
OPERATING REVENUES		
Residential	\$ 808,906	\$ 721,228
Commercial and industrial	814,584	773,311
Street lighting and other	52,122	41,739
Wholesale	406,171	248,001
Senate Bill - 1 revenue deferral	40	784
AB-32 revenue	22,760	17,880
LCFS revenue	9,775	7,599
Rate stabilization fund transfers	32,976	(20,266)
Total operating revenues	2,147,334	1,790,276
OPERATING EXPENSES		
Operations:		
Purchased power	873,436	395,572
Production	336,406	357,832
Transmission and distribution	90,242	81,484
Administrative, general and customer	256,288	153,799
Public good	54,170	46,519
Maintenance	168,500	136,849
Depreciation and amortization	249,922	242,917
Regulatory amounts collected in rates	36,688	35,369
Total operating expenses	2,065,652	1,450,341
OPERATING INCOME	81,682	339,935
NON-OPERATING REVENUES AND EXPENSES		
Other revenues and (expenses):		
Interest income	14,265	6,777
Investment income - net	27,702	8,035
Other income - net	48,077	93,302
Total other revenues and (expenses)	90,044	108,114
Interest charges:		
Interest on debt	101,184	109,300
Total interest charges	101,184	109,300
Total non-operating revenues and (expenses)	(11,140)	(1,186)
CHANGE IN NET POSITION	70,542	338,749
NET POSITION - BEGINNING OF YEAR	2,296,261	1,957,512
NET POSITION - END OF YEAR	\$ 2,366,803	\$ 2,296,261

The accompanying notes are an integral part of these financial statements.

**SACRAMENTO MUNICIPAL UTILITY DISTRICT
STATEMENTS OF CASH FLOWS**

	Year Ended December 31,	
	2022	2021 (restated)
	(thousands of dollars)	
CASH FLOWS FROM OPERATING ACTIVITIES		
Receipts from customers	\$ 1,673,495	\$ 1,498,124
Receipts from surplus power and gas sales	369,878	242,767
Other receipts	216,564	35,173
Payments to employees - payroll and other	(379,423)	(417,475)
Payments for wholesale power and gas purchases	(1,021,810)	(599,268)
Payments to vendors/others	(458,111)	(320,201)
Net cash provided by operating activities	400,593	439,120
CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES		
Repayment of debt	(20,550)	(18,450)
Receipts from federal and state grants	1,647	41,601
Proceeds from insurance settlements	-0-	3,135
Interest on debt	(28,568)	(29,385)
Net cash used in noncapital financing activities	(47,471)	(3,099)
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES		
Construction expenditures	(336,576)	(297,179)
Contributions in aid of construction	21,602	24,414
Net proceeds from bond issues	150,711	130,248
Repayments and refundings of debt	(269,385)	(235,970)
Issuance of commercial paper	150,000	-0-
Other receipts	16,413	9,253
Interest on debt	(120,222)	(120,874)
Lease and other payments	(26,407)	(23,185)
Cash received from leases	1,000	858
Net cash used in capital and related financing activities	(412,864)	(512,435)
CASH FLOWS FROM INVESTING ACTIVITIES		
Sales and maturities of securities	436,129	215,153
Purchases of securities	(812,821)	(106,889)
Proceeds from termination of prepaid gas contracts	-0-	2,000
Interest and dividends received	10,005	8,151
Investment revenue/expenses - net	27,619	8,036
Net cash provided by investing activities	(339,068)	126,451
Net increase in cash and cash equivalents	(398,810)	50,037
Cash and cash equivalents at the beginning of the year	788,648	738,611
Cash and cash equivalents at the end of the year	\$ 389,838	\$ 788,648
Cash and cash equivalents included in:		
Unrestricted cash and cash equivalents	\$ 268,653	\$ 584,998
Restricted and designated cash and cash equivalents	30,583	46,828
Restricted and designated assets (a component of the total of \$182,953 and \$288,908 at December 31, 2022 and 2021, respectively)	90,602	156,822
Cash and cash equivalents at the end of the year	\$ 389,838	\$ 788,648

The accompanying notes are an integral part of these financial statements.

**SACRAMENTO MUNICIPAL UTILITY DISTRICT
SUPPLEMENTAL CASH FLOW INFORMATION**

A reconciliation of the statements of cash flows operating activities to operating income as follows:

	Year Ended December 31,	
	2022	2021 (restated)
	(thousands of dollars)	
Operating income	\$ 81,682	\$ 339,935
Adjustments to reconcile operating income to net cash provided by operating activities:		
Depreciation	249,922	242,917
Regulatory amortization	36,688	35,369
Other Amortizations	22,909	20,278
Revenue deferred to (recognized from) regulatory credits - net	(33,016)	19,483
Other (receipts) payments - net	19,777	13,283
Changes in operating assets, deferred outflows, liabilities and deferred inflows:		
Receivables - retail customers, wholesale and other	(25,719)	(15,543)
Inventories, prepayments and other	(29,479)	(27,140)
Net pension and other postemployment benefits assets	85,270	(84,499)
Deferred outflows of resources	(122,706)	96,029
Payables and accruals	127,299	22,693
Decommissioning	(6,049)	(5,358)
Net pension liability	235,451	(469,820)
Net other postemployment benefits liability	6,753	-0-
Deferred inflows of resources	(248,189)	251,493
Net cash provided by operating activities	\$ 400,593	\$ 439,120

The supplemental disclosure of noncash financing and investing activities is as follows:

	Year Ended December 31,	
	2022	2021 (restated)
	(thousands of dollars)	
Amortization of debt related (expenses) and premiums - net	\$ 34,145	\$ 34,969
Write-off unamortized premium and loss	7,576	4,465
(Loss) Gain on debt extinguishment and refundings	6,677	3,925
Unrealized holding gain (loss)	(5,890)	(2,201)
Change in valuation of derivative financial instruments	163,871	93,719
Amortization of revenue for assets contributed in aid of construction	19,226	18,208
Construction expenditures included in accounts payable	55,787	43,470
(Loss) Gain on sale and retirement of assets - net	(2,036)	(439)
Write-off capital projects and preliminary surveys	(3,720)	(2,057)

The accompanying notes are an integral part of these financial statements.

Sacramento Municipal Utility District
Notes to Financial Statements
As of and for the Years Ended December 31, 2022 and 2021

NOTE 1. ORGANIZATION

The Sacramento Municipal Utility District (SMUD) was formed and operates under the State of California Municipal Utility District Act (Act). The Act gives SMUD the rights and powers to fix rates and charges for commodities or services it furnishes, and to incur indebtedness and issue bonds or other obligations. As a community-owned utility, SMUD is not subject to regulation or oversight by the California Public Utilities Commission.

SMUD is responsible for the acquisition, generation, transmission, and distribution of electric power to its service area, which includes most of Sacramento County and small adjoining portions of Placer and Yolo Counties. The Board of Directors (Board) determines SMUD's rates.

SMUD is exempt from payment of federal and state income taxes and, under most circumstances, real and personal property taxes. SMUD is not exempt from real and personal property taxes on assets it holds outside of its service territory. In addition, SMUD is responsible for the payment of a portion of the property taxes associated with its real property in California that lies outside of its service area.

NOTE 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Method of Accounting. SMUD's accounting records are maintained in accordance with Generally Accepted Accounting Principles for proprietary funds as prescribed by the Governmental Accounting Standards Board (GASB). SMUD's accounting records generally follow the Uniform System of Accounts for Public Utilities and Licensees prescribed by the Federal Energy Regulatory Commission (FERC), except as it relates to the accounting for contributions of utility property in aid of construction. SMUD's Financial Statements are reported using the economic resources measurement focus and the accrual basis of accounting. Revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of the related cash flows. Electric revenues and costs that are directly related to the acquisition, generation, transmission, and distribution of electricity are reported as operating revenues and expenses. All other revenues and expenses are reported as non-operating revenues and expenses.

Use of Estimates. The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America (U.S.) requires management to make estimates and assumptions that affect the reported amounts of assets, deferred outflows of resources, liabilities, and deferred inflows of resources and disclosures of contingent assets and liabilities at the date of the financial statements and reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

The Financial Reporting Entity. These Financial Statements include SMUD and its component units. Although the component units are legally separate from SMUD, they are blended into and reported as part of SMUD because of the extent of their operational and financial relationships with SMUD. All significant inter-component transactions have been eliminated in consolidation.

Component Units. The component units include the Central Valley Financing Authority (CVFA), the Sacramento Cogeneration Authority (SCA), the Sacramento Municipal Utility District Financing Authority (SFA), the Sacramento Power Authority (SPA), the Northern California Gas Authority No. 1 (NCGA), and the Northern California Energy Authority (NCEA). The primary purpose of CVFA, SCA, SFA and SPA is to own and operate electric utility plants that supply power to SMUD. On October 26, 2021, SFA entered into Assignment and Assumption Agreements (the Agreements) with CVFA, SCA, and SPA. The Agreements transfer the assets and obligations, including ownership of the Carson Power Plant, Procter and Gamble Power Plant, Campbell Power Plant, and McClellan Power Plant (assigned Power Plants) to SFA as of

November 1, 2021. The primary purpose of NCGA is to prepay for natural gas to sell to SMUD. The primary purpose of NCEA is to prepay for commodities in the form of natural gas and electricity to sell to SMUD. SMUD's Board comprises the Commissions that govern these entities (see Note 6).

Plant in Service. Capital assets are generally defined by SMUD as tangible assets with an initial, individual cost of more than five thousand dollars and an estimated useful life in excess of two years. The cost of additions to Plant in Service and replacement property units is capitalized. Repair and maintenance costs are charged to expense when incurred. When SMUD retires portions of its Electric Utility Plant, retirements are recorded against Accumulated Depreciation and the retired portion of Electric Utility Plant is removed from Plant in Service. The costs of removal and the related salvage value, if any, are charged or credited as appropriate to Accumulated Depreciation. SMUD generally computes depreciation on Plant in Service on a straight-line, service-life basis. The average annual composite depreciation rates for 2022 and 2021 was 3.2 percent and 3.3 percent, respectively. Depreciation is calculated using the following estimated lives:

Generation	8 to 80 years
Transmission and Distribution	7 to 50 years
Gas Pipeline	10 to 90 years
General	3 to 60 years

Investment in Joint Powers Authority (JPA). SMUD's investment in the Transmission Agency of Northern California (TANC) is accounted for under the equity method of accounting and is reported as a component of Plant in Service. SMUD's share of the TANC debt service costs and operations and maintenance expense, inclusive of depreciation, is included in Transmission and Distribution expense in the Statements of Revenues, Expenses and Changes in Net Position (see Note 5).

SMUD's investment in the Balancing Authority of Northern California (BANC) is accounted for under the equity method of accounting. SMUD's share of the BANC operations and maintenance expense is included in Transmission and Distribution expense in the Statements of Revenues, Expenses and Changes in Net Position (see Note 5).

Leases. SMUD implemented Statement of Governmental Accounting Standards (SGAS) No. 87, "**Leases**" in 2022 (see Note 3). Leases are contracts that convey control of the right to use another entity's nonfinancial asset as specified for a period of time in an exchange or exchange-like transaction without the transfer of ownership of the asset. The lease term is the period of time where there is a noncancellable right to use the underlying asset (see Note 4).

For lessor contracts, lease receivables and deferred inflows of resources are reported at present value using SMUD's incremental borrowing rate on the Statements of Net Position. The amortization of the discount for lessor contracts is recorded as Lease receivable for SMUD on the Statements of Net Position with the offset to interest income in Interest and other income on the Statements of Revenue, Expenses and Change in Net Position (see Note 4).

For lessee contracts, lease assets and liabilities are reported at present value using SMUD's incremental borrowing rate on the Statements of Net Position. The lease assets are amortized over the shorter of the lease term or the useful life of the underlying asset. The amortization of the discount for lessee contracts is recorded as Interest payable on the Statement of Net Position with the offset to Lease interest expense for SMUD on the Statement of Revenue, Expenses and Change in Net Position (see Note 4).

Restricted and Designated Assets. Cash, cash equivalents, and investments, which are restricted by regulation or under terms of certain agreements for payments to third parties are included as restricted assets. Restricted assets include Revenue bond and debt service reserves, Nuclear decommissioning trust fund, and Other funds. Board actions limiting the use of such funds are included as designated assets. Designated assets include the Rate stabilization fund and \$0.6 million of Other funds as of December 31, 2022 and 2021. When SMUD restricts or designates funds for a specific purpose, and restricted and designated and unrestricted resources are available for use, it is SMUD's policy to use restricted and designated resources first, then unrestricted resources as they are needed.

Restricted Bond Funds. SMUD's Indenture Agreements (Indenture) requires the maintenance of minimum levels of reserves for debt service on the 1997 Series K Bonds.

Nuclear Decommissioning Trust Fund. SMUD made annual contributions to its Nuclear Decommissioning Trust Fund (Trust Fund) through 2008 to cover the cost of its primary decommissioning activities associated with the Rancho Seco facility. Primary decommissioning excludes activities associated with the spent fuel storage facility after 2008 and most non-radiological decommissioning tasks. Interest earnings on the Trust Fund assets are recorded as Interest Income and are accumulated in the Trust Fund.

Asset Retirement Obligations (ARO). SMUD records asset retirement obligations (ARO) for tangible capital assets when an obligation to decommission facilities is legally required. SMUD recognizes AROs for its Rancho Seco nuclear power plant and for the CVFA power plant facility (see Note 13). The Rancho Seco ARO is recorded as Accrued Decommissioning and the unfunded portion of the ARO is recorded as current and noncurrent Regulatory Costs for Future Recovery (see Note 8) in the Statements of Net Position. Other AROs are recorded as Accrued Decommissioning and a corresponding Deferred Asset Retirement Obligation Outflows in the Statements of Net Position.

SMUD has identified potential retirement obligations related to certain generation, distribution and transmission facilities. SMUD's non-perpetual leased land rights generally are renewed continuously because SMUD intends to utilize these facilities indefinitely. GASB No. 83 requires the measurement of the ARO to be based on the probability weighting of potential outcomes. Due to the low probability that these leases will be terminated, a liability has not been recorded.

Cash and Cash Equivalents. Cash and cash equivalents include all debt instruments purchased with an original maturity of 90 days or less, deposits held at financial institutions, all investments in the Local Agency Investment Fund (LAIF), and money market funds. LAIF has an equity interest in the State of California (State) Pooled Money Investment Account (PMIA). PMIA funds are on deposit with the State's Centralized Treasury System and are managed in compliance with the California Government Code according to a statement of investment policy which sets forth permitted investment vehicles, liquidity parameters, and maximum maturity of investments.

Investments. SMUD's investments are reported at fair value in accordance with SGAS No. 72, "*Fair Value Measurement and Application*" (see Note 12). Realized and unrealized gains and losses are included in Other income (expense) - net in the Statements of Revenues, Expenses and Changes in Net Position. Premiums and discounts on zero coupon bonds are amortized using the effective interest method. Premiums and discounts on other securities are amortized using the straight-line method, which approximates the effective interest method.

Electric Operating Revenues. Electric revenues are billed on the basis of monthly cycle bills and are recorded as revenue when the electricity is delivered. SMUD records an estimate for unbilled revenues earned from the dates its retail customers were last billed to the end of the month. At December 31, 2022 and 2021, unbilled revenues were \$80.5 and \$93.6 million, respectively.

Purchased Power Expenses. A portion of SMUD's power needs are provided through power purchase agreements (PPA). Expenses from such agreements, along with associated transmission costs paid to other utilities, are charged to Purchased Power expense in the Statements of Revenues, Expenses and Changes in Net Position in the period the power is received. The costs or credits associated with energy swap agreements (gas and electric) or other arrangements that affect the net cost of Purchased Power are recognized in the period in which the underlying power delivery occurs. Contract termination payments and adjustments to prior billings are included in Purchased Power expense once the payments or adjustments can be reasonably estimated.

Advanced Capacity Payments. Some long-term agreements to purchase energy or capacity from other providers call for up-front payments. Such costs are generally recorded as an asset and amortized over the length of the contract in Operations - Production expense on the Statements of Revenues, Expenses and Changes in Net Position.

Credit and Market Risk. SMUD enters into forward purchase and sales commitments for physical delivery of gas and electricity with utilities and power marketers. SMUD is exposed to credit risk related to nonperformance by its wholesale counterparties under the terms of these contractual agreements. In order to limit the risk of counterparty default, SMUD has a wholesale counterparty risk policy which includes using the credit agency ratings of SMUD's counterparties and other credit services, credit enhancements for counterparties that do not meet an acceptable risk level, and the use of standardized agreements that allow for the netting of positive and negative exposures associated with a single counterparty. SMUD is also subject to similar requirements for many of its gas and power purchase agreements. SMUD uses a combination of cash and securities to satisfy its collateral requirements to counterparties.

SMUD's component units, NCGA and NCEA, entered into guaranteed investment contracts and are exposed to credit risk related to nonperformance by its investment provider. For NCGA, the investment provider provides collateral if their credit ratings fall below agreed upon levels. SMUD holds deposits by counterparties and an investment provider and records the amounts as Credit Support Collateral Obligation in the Statements of Net Position.

Collateral deposits that SMUD has with counterparties are recorded as Credit Support Collateral Deposits in the Statements of Net Position.

Accounts Receivable, Allowance for Doubtful Accounts and Energy Efficiency Loans. Accounts receivable is recorded at the invoiced amount and does not bear interest, except for accounts related to energy efficiency loans. SMUD recognizes an estimate of uncollectible accounts for its receivables related to electric service, energy efficiency loans, and other non-electric billings, based upon its historical experience with collections and current energy market conditions. For large wholesale receivable balances, SMUD determines its bad debt reserves based on the specific credit issues for each account. In the Statements of Net Position, SMUD reports its receivables net of the allowance for uncollectible as current assets, and its energy efficiency loans net of the allowance for uncollectible as noncurrent assets. Due to COVID-19, SMUD suspended disconnections for non-payment beginning in March 2020 and reinstated disconnections in April 2022. At December 31, 2022 and 2021, SMUD estimated its uncollectible retail customer accounts at \$38.0 million and \$69.0 million, respectively, based on non-payment behaviors by aging category. SMUD records bad debts for its estimated uncollectible accounts related to electric service as a reduction to the related operating revenues in the Statements of Revenues, Expenses and Changes in Net Position. SMUD records bad debts for its estimated uncollectible accounts related to energy efficiency loans and other non-electric billings in Administrative, General and Customer expense in the Statements of Revenues, Expenses and Changes in Net Position.

SMUD's receivables, allowances for uncollectible and energy efficiency loans are presented below:

	December 31,	
	2022	2021 (restated)
	(thousands of dollars)	
Retail customers:		
Receivables	\$ 219,606	\$ 259,987
Less: Allowance for uncollectible	<u>(38,000)</u>	<u>(69,000)</u>
Receivables - net	<u>\$ 181,606</u>	<u>\$ 190,987</u>
Wholesale and other (includes lease receivables, see Note 4):		
Receivables	\$ 105,083	\$ 60,883
Less: Allowance for uncollectible	<u>(2,778)</u>	<u>(2,255)</u>
Receivables - net	<u>\$ 102,305</u>	<u>\$ 58,628</u>
Energy efficiency loans:		
Receivables	\$ 869	\$ 1,517
Less: Allowance for uncollectible	<u>(137)</u>	<u>(219)</u>
Energy efficiency loans - net	<u>\$ 732</u>	<u>\$ 1,298</u>

Regulatory Deferrals. The Board has the authority to establish the level of rates charged for all SMUD services. As a regulated entity, SMUD's financial statements are prepared in accordance with SGAS Statement No. 62, *"Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989 Financial Accounting Standards Board (FASB) and American Institute of Certified Public Accountants Pronouncements,"* which requires that the effects of the ratemaking process be recorded in the financial statements. Accordingly, certain expenses and credits, normally reflected in Change in Net Position as incurred, are recognized when included in rates and recovered from or refunded to customers. SMUD records various regulatory assets and credits to reflect ratemaking actions of the Board (see Note 8).

Materials and Supplies. Materials and supplies are stated at average cost, which approximates the first-in, first-out method.

Compensated Absences. SMUD accrues vacation leave and compensatory time when employees earn the rights to the benefits. SMUD does not record sick leave as a liability until it is taken by the employee, since there are no cash payments made for sick leave when employees terminate or retire. Compensated absences are recorded as Accrued Salaries and Compensated Absences in the Statements of Net Position. At December 31, 2022 and 2021, the total estimated liability for vacation and other compensated absences was \$43.7 million and \$41.9 million, respectively.

Public Good. Public Good expenses consist of non-capital expenditures for energy efficiency programs, low income subsidies, renewable energy resources and technologies, and research and development.

Gains/Losses on Bond Refundings. Gains and losses resulting from bond refundings are included as a component of Deferred Inflows of Resources or Deferred Outflows of Resources in the Statements of Net Position and amortized as a component of Interest on Debt in the Statements of Revenues, Expenses and Changes in Net Position over the shorter of the life of the refunded debt or the new debt using the effective interest method.

Gains/Losses on Bond Defeasances or Extinguishments. Gains and losses resulting from bond defeasances or extinguishments that were not financed with the issuance of new debt are included as a component of Interest on Debt in the Statements of Revenues, Expenses and Changes in Net Position.

Deferred Outflow of Resources. A deferred outflow of resources represents a consumption of net position that applies to a future period and will not be recognized as an outflow of resources (expense) until that future time.

Deferred Inflows of Resources. A deferred inflow of resources represents an acquisition of net position that applies to a future period and therefore will not be recognized as an inflow of resources (revenue) until that future time.

Derivative Financial Instruments. SMUD records derivative financial instruments (interest rate swap and gas price swap agreements, certain wholesale sales agreements, certain power purchase agreements and option agreements) at fair value in its Statements of Net Position. SMUD does not enter into agreements for speculative purposes. Fair value is estimated by comparing contract prices to forward market prices quoted by third party market participants and/or provided in relevant industry publications. SMUD is exposed to risk of nonperformance if the counterparties default or if the swap agreements are terminated. SMUD reports derivative financial instruments with remaining maturities of one year or less and the portion of long-term contracts with scheduled transactions over the next twelve months as current in the Statements of Net Position (see Note 9).

Interest Rate Swap Agreements. SMUD enters into interest rate swap agreements to modify the effective interest rates on outstanding debt (see Notes 9 and 10).

Gas and Electricity Price Swap and Option Agreements. SMUD uses forward contracts to hedge the impact of market volatility on gas commodity prices for its natural gas-fueled power plants and for energy prices on purchased power for SMUD's retail load (see Note 9).

Precipitation Hedge Agreements. SMUD enters into non-exchange traded precipitation hedge agreements to hedge the cost of replacement power caused by low precipitation years (Precipitation Agreements). SMUD records the intrinsic value of the Precipitation Agreements as Prepayments and Other under Current Assets in the Statements of Net Position. Settlement of the Precipitation Agreements is not performed until the end of the period covered (water year ended September 30). The intrinsic value of a Precipitation Agreement is the difference between the expected results from a monthly allocation of the cumulative rainfall amounts, in an average rainfall year, and the actual rainfall during the same period.

Insurance Programs. SMUD records liabilities for unpaid claims at their present value when they are probable in occurrence and the amount can be reasonably estimated. SMUD records a liability for unpaid claims associated with general, auto, workers' compensation, and short-term and long-term disability based upon estimates derived by SMUD's claims administrator or SMUD staff. The liability comprises the present value of the claims outstanding and includes an amount for claim events incurred but not reported based upon SMUD's experience (see Note 16).

Pollution Remediation. SGAS No. 49, "*Accounting and Financial Reporting for Pollution Remediation Obligations*," (GASB No. 49) requires that a liability be recognized for expected outlays for remediating existing pollution when certain triggering events occur. SMUD recorded a pollution remediation obligation for its North City substation, which was built on a former landfill, for the former Community Linen Rental Services Property, and for obligations for several land sites, including a few sites where it will be building a substation. At December 31, 2022 and 2021, the total pollution remediation liability was \$24.3 million and \$20.4 million, respectively, and recorded as either Current Liabilities, Customer Deposits and Other or Noncurrent Liabilities, Self Insurance and Other in the Statements of Net Position. Costs were estimated using the expected cash flow technique prescribed under GASB No. 49, including only amounts that are reasonably estimable.

Hydro License. SMUD owns and operates the Upper American River Hydroelectric Project (UARP). The original license to construct and operate the UARP was issued in 1957 by FERC. Effective July 1, 2014, SMUD received a 50-year hydro license. As part of the hydro licensing process, SMUD entered into four contracts with government agencies whereby SMUD makes annual payments to them for various services for the term of the license. At December 31, 2022 and 2021, the liability for these contract payments was \$58.5 million and \$65.1 million, respectively, and recorded as either Current Liabilities, Customer Deposits and Other or Noncurrent Liabilities, Self-Insurance and Other in the Statements of Net Position (see Note 17).

Assembly Bill 32. California Assembly Bill (AB) 32 was an effort by the State of California to set a greenhouse gas (GHG) emissions reduction goal into law, and initially was set through 2020. In 2015, the state established a 2030 goal for GHG emissions at 40 percent below 1990 levels, and in July of 2017 AB-398 was approved by the Governor. Central to these initiatives is the Cap and Trade program, which covers major sources of GHG emissions in the State including power plants. AB-398 extended Cap and Trade through 2030. The Cap and Trade program includes an enforceable emissions cap that will decline over time. The State distributes allowances, which are tradable permits, equal to the emissions allowed under the cap. Sources under the cap are required to surrender allowances and offsets equal to their emissions at the end of each compliance period. SMUD is subject to AB-32 and has participated in California Air Resources Board (CARB) administered quarterly auctions in the past. In a normal water year, SMUD expects its free allocation of allowances from the CARB to cover its compliance costs associated with electricity delivered to its retail customers. SMUD expects to recover compliance costs associated with wholesale power sales costs through its wholesale power sales revenues. SMUD continues to monitor new legislation and proposed programs that could impact AB-32 and its subsequent extensions.

In addition, the Low Carbon Fuel Standards (LCFS) was enacted through AB-32. CARB is responsible for the implementation of LCFS and has established a program for LCFS credits. The LCFS program is designed to reduce greenhouse gas emissions associated with the lifecycle of transportation fuels used in California. SMUD participates in the program and receives LCFS credits from CARB for the electricity used to power electric vehicles. The LCFS credits are sold to parties (oil companies) that have a compliance obligation. CARB requires that electricity LCFS credit sales proceeds be spent in a way to benefit current or future Electric Vehicle drivers in California, for both commercial and residential vehicles.

Net Pension Asset (NPA) or Liability (NPL). The NPA or NPL is the difference between the actuarial present value of projected pension benefit payments attributable to employees' past service and the pension plan's fiduciary net position (see Note 14).

Net Other Postemployment Benefit (OPEB) Asset (NOA) or Liability (NOL). The NOA or NOL is the difference between the actuarial present value of projected OPEB benefit payments attributable to employee's past service and the OPEB plan's fiduciary net position (see Note 15).

Net Position. SMUD classifies its net position into three components as follows:

- Net investment in capital assets – This component of net position consists of capital assets, net of accumulated depreciation, reduced by the outstanding debt balances, net of unamortized debt expenses. Deferred inflows and outflows of resources that are attributable to the acquisition, construction or improvement of those assets or related debt are also included.
- Restricted – This component of net position consists of assets with constraints placed on their use, either externally or internally. Constraints include those imposed by debt indentures (excluding amounts considered in Net investment in capital assets, above), grants or laws and regulations of other governments, or by law through constitutional provisions or enabling legislation or by the Board. These restricted assets are reduced by liabilities and deferred inflows of resources related to those assets.
- Unrestricted – This component of net position consists of net amount of the assets, deferred outflows of resources, liabilities, and deferred inflows of resources that do not meet the definition of "Net investment in capital assets" or "Restricted."

Contributions in Aid of Construction (CIAC). SMUD records CIAC from customer contributions, primarily relating to expansions to SMUD's distribution facilities, as Other income (expense) - net in the Statements of Revenues, Expenses and Changes in Net Position. Contributions of capital are valued at acquisition value. For ratemaking purposes, the Board does not recognize such revenues when received; rather, CIAC is included in revenues as such costs are amortized over the estimated useful lives of the related distribution facilities.

Revenues and Expenses. SMUD distinguishes operating revenues and expenses from non-operating items. Operating revenues and expenses generally result from providing services and producing and delivering goods in connection with SMUD's principal ongoing operations. The principal operating revenues of SMUD are charges to customers for sales and services. Operating expenses include the cost of sales and services, administrative expenses, and depreciation on capital assets. All revenues and expenses not meeting this definition are reported as Non-Operating Revenues and Expenses in the Statements of Revenues, Expenses and Changes in Net Position.

Grants. SMUD receives grant proceeds from federal and state assisted programs for its projects which include, but are not limited to, advanced and renewable technologies, electric transportation, and energy efficiency. SMUD also periodically receives grant proceeds from federal or state assistance programs as partial reimbursements for costs it has incurred as a result of natural disasters, such as storm or fire damages. During 2021, SMUD received \$41.4 million from the California Arrearage Payment Program (CAPP), which offers financial assistance to help reduce past due energy balances accrued during the COVID-19 pandemic. The State Budget Act of 2021 appropriated \$1.0 billion from the federal American Rescue Plan Act of 2021 to support the establishment of CAPP. When applicable, these programs may be subject to financial and compliance audits pursuant to regulatory requirements. SMUD records grant proceeds related to capital projects as a Regulatory Credit (see Note 8).

SMUD has taxable Build America Bonds in which it receives an interest subsidy from the federal government equal to 35 percent of the interest paid (see Note 10). SMUD received reduced subsidy payments in 2022 and 2021 due to budget sequestration by the federal government. SMUD recognized \$9.3 million in revenues in 2022 and 2021 for its Build America Bonds, as a component of Other income (expense) - net, in the Statements of Revenues, Expenses and Changes in Net Position.

Customer Sales and Excise Taxes. SMUD is required by various governmental authorities, including states and municipalities, to collect and remit taxes on certain customer sales. Such taxes are presented on a net basis and excluded from revenues and expenses in the Statements of Revenues, Expenses and Changes in Net Position.

Subsequent Events. Subsequent events for SMUD have been evaluated through February 24, 2023 (see Note 19).

Reclassifications. Certain amounts in the 2021 Financial Statements have been reclassified in order to conform to the 2022 presentation.

Recent Accounting Pronouncements, adopted. In March 2020, GASB issued SGAS No. 93, *“Replacement of Interbank Offered Rates”* (GASB No. 93). The objective of this statement is to address accounting and financial reporting implications that result from the replacement of an interbank offered rate (IBOR), most notably, the London Interbank Offered Rate (LIBOR), which is expected to cease to exist in its current form at the end of 2021. This statement provides exceptions for certain hedging derivative instruments to the hedge accounting termination provisions when an IBOR is replaced as the reference rate of the hedging derivative instrument’s variable payment. By removing LIBOR as an appropriate benchmark interest rate for the qualitative evaluation of the effectiveness of an interest rate swap, GASB No. 93 identifies the Secured Overnight Financing Rate and the Effective Federal Funds Rate as appropriate benchmark interest rates to replace LIBOR. This statement is effective for SMUD in 2022. GASB No. 99 (see below) further states that the LIBOR is no longer an appropriate benchmark interest rate for a derivative instrument that hedges the interest rate risk of taxable debt when LIBOR ceases to be determined by the ICE Benchmark Administration using the methodology in place as of December 31, 2021. SMUD utilizes the 1-month LIBOR for its interest rate swap agreements. According to the ICE Benchmark Administration, the 1-month US dollar settings will be determined and published under the methodology until the end of June 2023. At this time, SMUD will determine an appropriate benchmark interest rate.

In April 2022, GASB issued SGAS No. 99, *“Omnibus 2022”* (GASB No. 99). This statement addresses a variety of topics and is effective for SMUD in 2022, 2023, or 2024 depending on the requirement. The only topic effective for SMUD in 2022 is the replacement of IBOR discussed above. SMUD chose to adopt provisions related to leases and the implementation of GASB No. 87 that were effective in 2023 early. SMUD incorporated the clarifications related to leases contained in GASB No. 99 during its implementation of GASB No. 87. SMUD is currently assessing the financial impact of adopting the remaining topics in this statement that are effective in 2023 and 2024.

Recent Accounting Pronouncements, not yet adopted. In March 2020, GASB issued SGAS No. 94, *“Public-Private and Public-Public Partnerships and Availability Payment Arrangements”* (GASB No. 94). The primary objective of this Statement is to provide guidance for accounting and financial reporting related to public-private and public-public partnership arrangements (PPPs) and availability payment arrangements (APAs). A PPP is an arrangement in which a government (the transferor) contracts with an operator (a governmental or nongovernmental entity) to provide public services by conveying control of the right to operate or use a nonfinancial asset, such as infrastructure or other capital asset (the underlying PPP asset), for a period of time in an exchange or exchange-like transaction. An APA is an arrangement in which a government compensates an operator for services that may include designing, constructing, financing, maintaining, or operating an underlying nonfinancial asset for a period of time in an exchange or exchange-like transaction. This statement is effective for SMUD in 2023. SMUD is currently assessing the financial impact of adopting this statement but does not expect it to be material.

In May 2020, GASB issued SGAS No. 96, *“Subscription-Based Information Technology Arrangements”* (GASB No. 96). This statement provides guidance on the accounting and financial reporting for subscription-based information technology arrangements (SBITAs) for governments. The statement (1) defines a SBITA as a contract that conveys control of the right to use another party’s information technology software, alone or in combination with tangible capital assets, as specified in the contract for a period of time in an exchange or exchange-like transaction; (2) establishes that a SBITA results in a right-to-use subscription asset and a corresponding subscription liability; (3) provides the capitalization criteria for outlays other than subscription payments, including implementation costs of a SBITA; and (4) requires note disclosures regarding a SBITA. To the

extent relevant, the standards for SBITAs are based on the standards established in GASB No. 87, *Leases*, as amended. This statement is effective for SMUD in 2023. SMUD is currently assessing the financial statement impact of adopting this statement.

In June 2022, GASB issued SGAS No. 100, “***Accounting Changes and Error Corrections – an amendment of GASB Statement No. 62***” (GASB No. 100), to enhance accounting and financial reporting requirements for accounting changes and error corrections. The statement defines accounting changes and sets forth requirements for reporting changes and error corrections in the financial statements. In addition, the statement contains requirements for disclosure in notes to financial statements of information about accounting changes and error corrections. Furthermore, for periods that are earlier than those included in the financial statements, information presented in required supplementary information and supplementary information should be restated for error corrections, but not for changes in accounting principles. This statement is effective for SMUD in fiscal year 2024. SMUD is currently assessing the financial statement impact of adopting this statement.

In June 2022, GASB issued SGAS No. 101, “***Compensated Absences***” (GASB No. 101), to better meet the information needs of financial statement users by updating the recognition and measurement guidance for compensated absences. The unified recognition and measurement model in this Statement will result in a liability for compensated absences that more appropriately reflects when a government incurs an obligation. This statement is effective for SMUD in fiscal year 2024. SMUD is currently assessing the financial statement impact of adopting this statement.

NOTE 3. ACCOUNTING CHANGE

In June 2017, GASB issued SGAS No. 87, “*Leases*” (GASB No. 87), to better meet the information needs of financial statement users by improving accounting and financial reporting for leases by governments. The statement requires recognition of certain lease assets and liabilities for leases that previously were classified as operating leases and recognized as inflows of resources or outflows of resources based on the payment provisions of the contract. GASB No. 87 establishes a single model for lease accounting based on the foundational principle that leases are financings of the right to use an underlying asset. Under GASB No. 87, a lessee is required to recognize a lease liability and an intangible right-to-use lease asset, and a lessor is required to recognize a lease receivable and a deferred inflow of resources. SMUD implemented GASB No. 87 in fiscal year 2022, retroactive to the beginning of fiscal year 2021. SMUD has assessed whether its leases meet the requirements of GASB No. 87. The implementation impacted the Statements of Net Position when the lease assets, receivables, liabilities and deferred inflow of resources were recorded. The implementation also impacted the Statements of Revenues, Expenses and Changes in Net Position as lease revenue, amortization expense, interest income, and interest expense were also recorded. Net Position was reduced by \$0.8 million for 2021 due to the restatement (see Note 4).

SMUD has restated amounts of the affected balances within the financial statements for the period ended December 31, 2021, as follows:

STATEMENTS OF NET POSITION

	December 31,	
	<u>2021 (restated)</u>	<u>2021</u>
Assets		
Electric Utility Plant		
Plant in service	\$ 6,864,040	\$ 6,782,493
Less accumulated depreciation and depletion	(3,340,797)	(3,314,820)
Current Assets		
Receivables – net:		
Wholesale and other	58,628	58,202
Noncurrent Assets		
Due from affiliated entity	29,674	29,687
Prepayments and other	40,738	23,576
Current Liabilities		
Interest payable	50,739	50,709
Customer deposits and other	67,064	41,003
Noncurrent Liabilities		
Self insurance and other	118,146	87,617
Deferred Inflows of Resources		
Regulatory credits	543,014	543,027
Deferred lease inflows	17,373	-0-
Net Position		
Net investment in capital assets	1,349,688	1,350,709
Revenue bond and debt service	64,793	64,823
Unrestricted	777,674	777,459

STATEMENTS OF REVENUE, EXPENSES AND CHANGES IN NET POSITION

	December 31,	
	<u>2021 (restated)</u>	<u>2021</u>
Operating Revenues		
Street lighting and other	\$ 41,739	\$ 42,031
Operating Expenses		
Purchased power	395,572	420,350
Production	357,832	358,162
Administrative, general and customer	153,799	153,978
Depreciation and amortization	242,917	216,940
Non-operating revenues (expenses)		
Interest income	6,777	6,501
Other income - net	93,302	93,432
Change in Net Position	338,749	339,585
Net Position – End of Year	2,296,261	2,297,097

STATEMENTS OF CASH FLOWS

	December 31,	
	<u>2021 (restated)</u>	<u>2021</u>
Cash flows from operating activities		
Receipts from customers	\$ 1,498,124	\$ 1,498,982
Payments for wholesale power and gas purchases	(599,268)	(621,944)
Payments to vendors/others	(320,201)	(320,710)
Cash flows from capital and related financing activities		
Lease and other payments	(23,185)	-0-
Cash received from leases	858	-0-
Reconciliation of operating income to net cash provided by operating activities:		
Operating income	339,935	340,917
Adjustments to reconcile operating income to net cash provided by operating activities:		
Depreciation	242,917	216,940
Other (receipts) payments – net	13,283	15,951

NOTE 4. ELECTRIC UTILITY PLANT

The summarized activity of SMUD's Electric Utility Plant during 2022 is presented below:

	Balance January 1, <u>2022</u>	<u>Additions</u>	Transfers and <u>Disposals</u>	Balance December 31, <u>2022</u>
	(thousands of dollars)			
Nondepreciable Electric Utility Plant:				
Land and land rights	\$ 169,544	\$ 1,072	\$ -0-	\$ 170,616
CWIP	<u>367,297</u>	<u>353,439</u>	<u>(372,978)</u>	<u>347,758</u>
Total nondepreciable electric utility plant	<u>536,841</u>	<u>354,511</u>	<u>(372,978)</u>	<u>518,374</u>
Depreciable Electric Utility Plant:				
Generation	1,751,920	21,801	(7,324)	1,766,397
Transmission	522,765	112,301	(341)	634,725
Distribution	2,651,039	147,235	(12,699)	2,785,575
Investment in JPAs	34,761	5,947	-0-	40,708
Intangibles	526,923	44,394	-0-	571,317
General	<u>1,125,541</u>	<u>45,634</u>	<u>(23,361)</u>	<u>1,147,814</u>
	6,612,949	377,312	(43,725)	6,946,536
Lease Assets:				
Land	1,764	-0-	-0-	1,764
Generation	76,804	-0-	-0-	76,804
General	<u>2,979</u>	<u>2,577</u>	<u>-0-</u>	<u>5,556</u>
	81,547	2,577	-0-	84,124
Less: accumulated depreciation and amortization	(3,333,205)	(248,672)	41,787	(3,540,090)
Less: accumulated amortization on JPAs	<u>(7,592)</u>	<u>(313)</u>	<u>-0-</u>	<u>(7,905)</u>
	(3,340,797)	(248,985)	41,787	(3,547,995)
Total depreciable plant	<u>3,353,699</u>	<u>130,904</u>	<u>(1,938)</u>	<u>3,482,665</u>
Total Electric Utility Plant - net	<u>\$ 3,890,540</u>	<u>\$ 485,415</u>	<u>\$ (374,916)</u>	<u>\$ 4,001,039</u>

The summarized activity of SMUD's Electric Utility Plant during 2021 is presented below:

	Balance January 1, 2021	Additions	Transfers and Disposals	Balance December 31, 2021 (Restated)
	(thousands of dollars)			
Nondepreciable Electric Utility Plant:				
Land and land rights	\$ 159,515	\$ 10,835	\$ (806)	\$ 169,544
CWIP	461,319	298,426	(392,448)	367,297
Total nondepreciable electric utility plant	620,834	309,261	(393,254)	536,841
Depreciable Electric Utility Plant:				
Generation	1,710,420	49,594	(8,094)	1,751,920
Transmission	410,567	113,776	(1,578)	522,765
Distribution	2,498,526	162,177	(9,664)	2,651,039
Investment in JPAs	30,012	4,749	-0-	34,761
Intangibles	517,415	18,016	(8,508)	526,923
General	1,098,911	39,861	(13,231)	1,125,541
	6,265,851	388,173	(41,075)	6,612,949
Lease Assets:				
Land	-0-	1,764	-0-	1,764
Generation	-0-	76,804	-0-	76,804
General	-0-	2,979	-0-	2,979
	-0-	81,547	-0-	81,547
Less: accumulated depreciation and amortization	(3,132,247)	(242,313)	41,355	(3,333,205)
Less: accumulated amortization on JPAs	(7,279)	(313)	-0-	(7,592)
	(3,139,526)	(242,626)	41,355	(3,340,797)
Total depreciable plant	3,126,325	171,524	280	3,353,699
Total Electric Utility Plant - net	\$ 3,747,159	\$ 536,355	\$ (392,974)	\$ 3,890,540

Leases. SMUD engages in lease contracts for land, communication sites, buildings, and a power plant. SMUD leases land to SFA, a component unit, and as described in Note 2, all of the activities and balances of the component units are blended into and reported as part of SMUD because of the extent of their operational and financial relationships with SMUD.

Lessor. Lease agreements include land, communication sites, and a building. Lease terms range from 19 to 35 years including options to extend the lease term after completion of the initial contracted term. The likelihood that the renewal options will be exercised has been evaluated and it has been determined that Lessees will exercise the renewal options with reasonable certainty. The agreements allow for periodic increases to the lease payments. The interest rates range between 0.7 percent to 4.2 percent based on the AAA Muni Curve with the number of years to maturity that corresponds to the lease term, plus an additional credit spread to account for a different credit rating and other factors. At December 31, 2022 and 2021, lease receivables included in current assets, Receivables – Wholesale and other (see Note 2), were \$0.8 million and \$0.4 million, respectively, and lease receivables included in noncurrent assets, Prepayments and other, were \$17.8 million and \$17.2 million, respectively. As of December 31, 2022 and 2021, deferred lease inflows were \$18.2 million and \$17.4 million, respectively. SMUD recognized lease revenue of \$0.7 million and \$0.6 million in 2022 and 2021, respectively, which is reported in Street lighting and other on

the Statements of Revenues, Expenses and Changes in Net Position. SMUD recognized interest income of \$0.03 million in 2022 and 2021. There were no variable lease payments received in 2022 or 2021.

Lessee. Lessee agreements include land, buildings, and a power plant. Lease terms range from 3 to 25 years including options to extend the lease term after completion of the initial contracted term. The likelihood that the renewal options will be exercised has been evaluated and it has been determined that the lease agreements will be renewed with reasonable certainty. The agreements allow for periodic increases to the lease payments. The interest rates range between 0.1 percent to 4.2 percent based on the AAA Muni Curve with the number of years to maturity that corresponds to the lease term, plus an additional credit spread to account for a different credit rating and other factors. As of December 31, 2022 and 2021, assets recorded under leases were \$84.1 million and \$81.5 million, respectively, and accumulated amortization associated with lease assets was \$52.0 million and \$26.0 million, respectively. SMUD recognized amortization expense of \$26.0 million in 2022 and 2021 which is reported as Depreciation and amortization on the Statements of Revenues, Expenses and Changes in Net Position. As of December 31, 2022 and 2021, lease obligations included in current liabilities, Customer deposits and other, were \$26.8 million and \$26.1 million, respectively, and lease obligations included in noncurrent liabilities, Self insurance and other, were \$6.3 million and \$30.5 million, respectively. There were no lease impairments in 2022 or 2021. There were no payments recorded in the current period that were not included in the measurement of the lease liability. There is one lease commitment for which the lease term begins in 2024 and will be recorded as a lease asset and lease liability upon commencement of the lease term.

The following table summarizes the future lease principal and interest payments as of December 31, 2022:

	<u>Principal</u>	<u>Interest</u>	<u>Total</u>
2023	\$ 26,767	\$ 174	\$ 26,941
2024	402	142	544
2025	419	137	556
2026	429	132	561
2027	438	127	565
2028-2032 (combined)	1,816	548	2,364
2033-2037 (combined)	939	422	1,361
2038-2042 (combined)	979	273	1,252
2043-2046 (combined)	<u>919</u>	<u>99</u>	<u>1,018</u>
Total	<u>\$ 33,108</u>	<u>\$ 2,054</u>	<u>\$ 35,162</u>

NOTE 5. INVESTMENT IN JOINT POWERS AUTHORITY

TANC. SMUD and fourteen other California municipal utilities are members of TANC, a JPA. TANC, along with the other California municipal utilities, own and operate the California-Oregon Transmission Project (COTP), a 500-kilovolt transmission line between central California and southern Oregon. SMUD is obligated to pay approximately 39 percent of TANC's COTP debt service and operations costs in exchange for entitlement to approximately 536 megawatts (MW) of TANC's 1,390 MW transfer capability. Additionally, SMUD has a 48 MW share of TANC's 300 MW firm, bi-directional transmission over Pacific Gas and Electric Company's (PG&E) system between PG&E's Tesla and Midway substations (SOT). The total entitlement shares for the COTP and SOT described above include the long-term agreements listed below.

In 2009, SMUD entered into a 15-year long-term layoff agreement with TANC and certain members, expiring January 31, 2024. This agreement provides for the assignment of all rights and obligations of the City of Palo Alto and the City of Roseville related to their COTP and SOT entitlements. This agreement increased SMUD's COTP entitlement by 36 MW and SOT entitlement by 2 MW. On July 1, 2014, an amendment returned to the City of Roseville all rights and obligations related to the COTP entitlements, which decreased SMUD's COTP entitlement by 13 MW.

Effective July 1, 2014, SMUD entered into a 25-year long-term layoff agreement with TANC and certain members that provides for the assignment of all rights and obligations of Northern California Power Agency and partial rights and obligations of the City of Santa Clara related to their COTP entitlements. This agreement increased SMUD's COTP entitlements by 130 MW.

The long-term debt of TANC, which totals \$167.8 million (unaudited) at December 31, 2022, is collateralized by a pledge and assignment of net revenues of TANC supported by take or pay commitments of SMUD and other members. Should other members default on their obligations to TANC, SMUD would be required to make additional payments to cover a portion of such defaulted payments, up to 25 percent of its current obligation. SMUD recorded transmission expenses related to TANC of \$16.9 million and \$16.5 million in 2022 and 2021, respectively.

Summary financial information for TANC is presented below:

	December 31,	
	2022	2021(restated)
	(Unaudited)	(Unaudited)
	(thousands of dollars)	
Total Assets	\$ 389,258	\$ 372,434
Total Deferred Outflows of Resources	106	349
Total Assets and Deferred Outflows of Resources	<u>\$ 389,364</u>	<u>\$ 372,783</u>
Total Liabilities	\$ 309,291	\$ 307,554
Total Deferred Inflows of Resources	995	1,079
Total Net Position	79,078	64,150
Total Liabilities and Net Position	<u>\$ 389,364</u>	<u>\$ 372,783</u>
Changes in Net Position for the Six Months Ended December 31	<u>\$ 7</u>	<u>\$ -0-</u>

Copies of the TANC annual financial reports may be obtained from SMUD at P.O. Box 15830, Sacramento, California 95852 or online at www.tanc.us.

BANC. SMUD, City of Redding, City of Roseville, Modesto Irrigation District (MID), City of Shasta Lake, and Trinity Public Utilities District are members of BANC, a JPA formed in 2009. In 2011, operational control of Balancing Authority Area (BAA) operations was transferred from SMUD to BANC. BANC performs FERC approved BAA reliability functions that are managed by North American Electric Reliability Corporation (NERC), nationally, and by Western Electricity Coordinating Council functions in the west. SMUD recorded expenses related to BANC of \$3.9 million and \$3.7 million in 2022 and 2021, respectively.

Summary financial information for BANC is presented below:

	December 31,	
	2022	2021
	(Audited)	(Audited)
	(thousands of dollars)	
Total Assets	<u>\$ 15,028</u>	<u>\$ 7,097</u>
Total Liabilities	\$ 15028	\$ 7,097
Total Net Position	-0-	-0-
Total Liabilities and Net Position	<u>\$ 15,028</u>	<u>\$ 7,097</u>
Changes in Net Position for the Year Ended December 31	<u>\$ -0-</u>	<u>\$ -0-</u>

Copies of the BANC annual financial reports may be obtained from SMUD at P.O. Box 15830, Sacramento, California 95852.

NOTE 6. COMPONENT UNITS

CVFA Carson Power Plant Cogeneration Project. CVFA is a JPA formed by SMUD and the Sacramento Regional County Sanitation District. CVFA operates the Carson Power Plant Project, a 65 MW (net) natural gas-fired cogeneration facility and a 42 MW (net) natural gas-fired simple cycle peaking plant. On November 1, 2021, CVFA transferred the assets and obligations, including the ownership of the Carson Power Plant to SFA (see Note 2).

SCA Procter & Gamble Power Plant Cogeneration Project. SCA is a JPA formed by SMUD and the SFA. SCA operates the Procter & Gamble Power Plant Project, a 136 MW (net) natural gas-fired cogeneration facility and a 50 MW (net) natural gas-fired simple cycle peaking plant. On November 1, 2021, SCA transferred the assets and obligations, including the ownership of the Procter & Gamble Power Plant to SFA (see Note 2).

SFA Cosumnes Power Plant Project. SFA is a JPA formed by SMUD and MID. SFA operates the Cosumnes Power Plant Project, a 602 MW (net) natural gas-fired, combined cycle facility. The revenue stream to pay the SFA bonds' debt service is provided by a "take-or-pay" power purchase agreement between SMUD and SFA. On November 1, 2021, CVFA, SCA and SPA assets and obligations, including ownership of the assigned Power Plants, were transferred to SFA (see Note 2).

SPA Campbell Soup Power Plant Cogeneration Project. SPA is a JPA formed by SMUD and the SFA. SPA operates the Campbell Soup Power Plant Project, a 160 MW (net) natural gas-fired cogeneration facility, and the McClellan Power Plant Project, a 72 MW (net) natural gas-fired simple cycle peaking plant. On November 1, 2021, SPA transferred the assets and obligations, including the ownership of the Campbell and McClellan Power Plants to SFA (see Note 2).

NCGA. NCGA is a JPA formed by SMUD and the SFA. NCGA has a prepaid gas contract with Morgan Stanley Capital Group (MSCG) expiring in 2027, which is financed primarily by NCGA revenue bonds. SMUD has contracted with NCGA to purchase all the gas delivered by MSCG to NCGA, based on market prices. NCGA is obligated to pay the principal and interest on the bonds. Neither SMUD nor SFA is obligated to make debt service payments on the bonds. NCGA can terminate the prepaid gas contract under certain circumstances, including a failure by MSCG to meet its gas delivery obligation to NCGA or a drop in MSCG's credit rating below a specified level. If this occurs, MSCG will be required to make a termination payment to NCGA based on the unamortized prepayment proceeds received by MSCG.

NCEA. NCEA is a JPA formed by SMUD and the SFA. NCEA has a prepaid natural gas and electricity (commodity) contract with J. Aron & Company LLC (J. Aron) expiring in 2049, which is financed primarily by NCEA revenue bonds. SMUD has contracted with NCEA to purchase all the commodity delivered by J. Aron to NCEA, based on market prices. NCEA is obligated to pay the principal and interest on the bonds. Neither SMUD nor SFA is obligated to make debt service payments on the bonds. NCEA can terminate the prepaid commodity contract under certain circumstances, including a failure by J. Aron to meet its commodity delivery obligation to NCEA. If this occurs, J. Aron will be required to make a termination payment to NCEA based on the unamortized prepayment proceeds received by J. Aron.

The summarized activity of SMUD's component units for 2022 is presented below:

CONDENSED STATEMENTS OF NET POSITION
December 31, 2022
(thousands of dollars)

	<u>SFA</u>	<u>NCGA</u>	<u>NCEA</u>
Assets			
Electric Utility Plant - net	\$ 309,606	\$ -0-	\$ -0-
Current Assets	109,011	40,591	36,148
Noncurrent Assets	<u>682</u>	<u>112,872</u>	<u>524,549</u>
Total Assets	419,299	153,463	560,697
Deferred Outflows of Resources	<u>3,258</u>	<u>-0-</u>	<u>-0-</u>
Total Assets and Deferred Outflows of Resources	<u>\$ 422,557</u>	<u>\$ 153,463</u>	<u>\$ 560,697</u>
Liabilities			
Long-Term Debt - net	\$ 95,553	\$ 120,070	\$ 544,562
Current Liabilities	44,332	24,404	20,537
Noncurrent Liabilities	<u>15,215</u>	<u>-0-</u>	<u>208</u>
Total Liabilities	155,100	144,474	565,307
Net Position	<u>267,457</u>	<u>8,989</u>	<u>(4,610)</u>
Total Liabilities and Net Position	<u>\$ 422,557</u>	<u>\$ 153,463</u>	<u>\$ 560,697</u>

CONDENSED STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION
December 31, 2022
(thousands of dollars)

	<u>SFA</u>	<u>NCGA</u>	<u>NCEA</u>
Operating Revenues	\$ 115,247	\$ 28,472	\$ 22,955
Operating Expenses	<u>94,435</u>	<u>22,520</u>	<u>3,845</u>
Operating Income	20,812	5,952	19,110
Non-Operating Revenues and Expenses			
Other Revenues	1,155	326	-0-
Interest Charges and Other	<u>(3,126)</u>	<u>(6,610)</u>	<u>(16,354)</u>
Change in Net Position Before Distributions and Contributions	18,841	(332)	2,756
Distribution to Member	(35,000)	(590)	(941)
Member Contributions	<u>-0-</u>	<u>73</u>	<u>140</u>
Change in Net Position	(16,159)	(849)	1,955
Net Position – Beginning of Year	<u>283,616</u>	<u>9,838</u>	<u>(6,565)</u>
Net Position – End of Year	<u>\$ 267,457</u>	<u>\$ 8,989</u>	<u>\$ (4,610)</u>

CONDENSED STATEMENTS OF CASH FLOWS
December 31, 2022
(thousands of dollars)

	<u>SFA</u>	<u>NCGA</u>	<u>NCEA</u>
Net Cash Provided by Operating Activities	\$ 47,786	\$ 25,312	\$ 22,955
Net Cash Provided by (Used in) Noncapital Financing Activities	(35,000)	(27,955)	(22,694)
Net Cash Used in Capital Financing Activities	(41,839)	-0-	-0-
Net Cash Provided by (Used in) Investing Activities	<u>384</u>	<u>536</u>	<u>(8,579)</u>
Net Decrease in Cash and Cash Equivalents	(28,669)	(2,107)	(8,318)
Cash and Cash Equivalents at the Beginning of the Year	<u>69,630</u>	<u>14,823</u>	<u>10,877</u>
Cash and Cash Equivalents at the End of the Year	<u>\$ 40,961</u>	<u>\$ 12,716</u>	<u>\$ 2,559</u>

The summarized activity of SMUD's component units for 2021 is presented below:

CONDENSED STATEMENTS OF NET POSITION
December 31, 2021
(thousands of dollars)

	<u>SFA (Restated)</u>	<u>NCGA</u>	<u>NCEA</u>
Assets			
Electric Utility Plant - net	\$ 309,574	\$ -0-	\$ -0-
Current Assets	133,673	39,938	28,879
Noncurrent Assets	<u>790</u>	<u>138,186</u>	<u>528,808</u>
Total Assets	444,037	178,124	557,687
Deferred Outflows of Resources	<u>3,267</u>	<u>-0-</u>	<u>-0-</u>
Total Assets and Deferred Outflows of Resources	<u>\$ 447,304</u>	<u>\$ 178,124</u>	<u>\$ 557,687</u>
Liabilities			
Long-Term Debt - net	\$ 99,421	\$ 142,935	\$ 551,815
Current Liabilities	49,507	25,351	12,277
Noncurrent Liabilities	<u>14,760</u>	<u>-0-</u>	<u>160</u>
Total Liabilities	163,688	168,286	564,252
Net Position	<u>283,616</u>	<u>9,838</u>	<u>(6,565)</u>
Total Liabilities and Net Position	<u>\$ 447,304</u>	<u>\$ 178,124</u>	<u>\$ 557,687</u>

CONDENSED STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION
December 31, 2021
(thousands of dollars)

	SFA (Restated)	NCGA	NCEA
Operating Revenues	\$ 143,050	\$ 27,092	\$ 21,406
Operating Expenses	<u>137,234</u>	<u>19,980</u>	<u>3,573</u>
Operating Income	5,816	7,112	17,833
Non-Operating Revenues and Expenses			
Other Revenues	51	492	459
Interest Charges and Other	<u>(3,464)</u>	<u>(7,449)</u>	<u>(16,774)</u>
Change in Net Position Before Distributions,			
Contributions and Special Item	(3,413)	155	1,518
Distribution to Member	-0-	(544)	(843)
Member Contributions	-0-	81	79
Special Item	<u>161,298</u>	<u>-0-</u>	<u>-0-</u>
Change in Net Position	163,701	(308)	754
Net Position – Beginning of Year	<u>119,915</u>	<u>10,146</u>	<u>(7,319)</u>
Net Position – End of Year	<u>\$ 283,616</u>	<u>\$ 9,838</u>	<u>\$ (6,565)</u>

CONDENSED STATEMENTS OF CASH FLOWS
December 31, 2021
(thousands of dollars)

	SFA (Restated)	NCGA	NCEA
Net Cash Provided by			
Operating Activities	\$ 25,536	\$ 26,145	\$ 21,405
Net Cash Provided by (Used in)			
Noncapital Financing Activities	37,999	(26,626)	(22,595)
Net Cash Used in Capital Financing			
Activities	(17,827)	-0-	-0-
Net Cash Provided by			
Investing Activities	<u>56</u>	<u>492</u>	<u>1,190</u>
Net Increase in Cash and Cash			
Equivalents	45,764	11	-0-
Cash and Cash Equivalents at the			
Beginning of the Year	<u>23,866</u>	<u>14,812</u>	<u>10,877</u>
Cash and Cash Equivalents at the			
End of the Year	<u>\$ 69,630</u>	<u>\$ 14,823</u>	<u>\$ 10,877</u>

As described in Note 2, all of the activities and balances of the component units are blended into and reported as part of SMUD because of the extent of their operational and financial relationships with SMUD. Copies of SFA's, NCGA's and NCEA's annual financial reports may be obtained from their Executive Office at P.O. Box 15830, Sacramento, California 95852 or online at www.smud.org.

NOTE 7. CASH, CASH EQUIVALENTS, AND INVESTMENTS

Cash Equivalents and Investments. SMUD's investment policy is governed by the California State and Municipal Codes and its Indenture, which allow SMUD's investments to include: obligations which are unconditionally guaranteed by the U.S. Government or its agencies or instrumentalities; direct and general obligations of the State or any local agency within the State; bankers' acceptances; commercial paper; certificates of deposit; repurchase and reverse repurchase agreements; medium term corporate notes; LAIF; and money market funds. SMUD's investment policy includes restrictions for investments relating to maximum amounts invested as a percentage of total portfolio and with a single issuer, maximum maturities, and minimum credit ratings.

Credit Risk. This is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. To mitigate this risk, SMUD limits investments to those rated, at a minimum, "A-1" or equivalent for short-term investments and "A" or equivalent for medium-term corporate notes by a nationally recognized rating agency, with the exception of the Guaranteed Investment Contracts (GICs) held by NCEA. NCEA's GICs are rated at the credit rating of the commodity supplier, or, if not rated, the guarantor of the commodity supplier which is currently Goldman Sachs rated as "BBB+".

Custodial Credit Risk. This is the risk that, in the event of the failure of a depository financial institution or counterparty to a transaction, SMUD's deposits and investments may not be returned or SMUD will not be able to recover the value of its deposits, investments or collateral securities that are in the possession of another party. SMUD does not have a deposit or investment policy for custodial credit risk.

As of December 31, 2022 and 2021, \$9.7 million and \$21.9 million in deposits were uninsured, respectively. The bank balance is also, per a depository pledge agreement between SMUD and SMUD's bank, collateralized at 128 percent and 129 percent of the collective funds on deposit (increased by the amount of accrued but uncredited interest, reduced by deposits covered by Federal Deposit Insurance Corporation) at December 31, 2022 and 2021, respectively. SMUD had money market funds of \$185.7 million and \$141.6 million which were uninsured at December 31, 2022 and 2021, respectively. SMUD's investments and money market funds are held in SMUD's name.

Concentration of Credit Risk. This is the risk of loss attributed to the magnitude of an entity's investment in a single issuer. SMUD places no limit on the amounts invested in any one issuer for repurchase agreements, US Treasuries, federal agency, and state and municipal securities.

The following are the concentrations of risk greater than five percent in either year:

Investment Type:	December 31,	
	2022	2021
Federal Home Loan Banks	68%	30%
Freddie Mac	N/A	13%
Corporate Note – Toyota Motor Credit Corp	5%	N/A
Municipal Bond – CA Department of Water Resources	N/A	18%
Municipal Bond – State of Florida	5%	16%
Municipal Bond – State of California	N/A	7%
Federal Farm Credit Bank	6%	N/A
Ebury	N/A	7%
Guaranteed Investment Contracts	4%	7%

Interest Rate Risk. This is the risk of loss due to the fair value of an investment declining due to interest rates rising. Though SMUD has restrictions as to the maturities of some of the investments, it does not have a formal policy that limits

investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates. SMUD is exposed to interest rate risk on its interest rate swaps (see Note 9).

The following schedules indicate the credit and interest rate risk at December 31, 2022 and 2021. The credit ratings listed are from Standard & Poor's (S&P) or Moody's. (N/A is defined as not applicable to the rating disclosure requirements.)

At December 31, 2022, SMUD's cash, cash equivalents, and investments consist of the following:

Description	Credit Rating	Remaining Maturities (in years)			Total Fair Value
		Less Than 1	1-5	More Than 5	
		(thousands of dollars)			
Cash and Cash Equivalents:					
Cash	N/A	\$ 2,453	\$ -0-	\$ -0-	\$ 2,453
LAIF	Not Rated	85,502	-0-	-0-	85,502
Money Market Funds	AAAm	185,709	-0-	-0-	185,709
Deposit at Notice	N/A	103,597	-0-	-0-	103,597
Commercial Paper	A-1	12,577	-0-	-0-	12,577
Total cash and cash equivalents		389,838	-0-	-0-	389,838
Investments:					
Federal Home Loan Bank	AA+	218,532	123,332	-0-	341,864
Federal Farm Credit Bank	AA+	-0-	29,377	-0-	29,377
U.S. Treasury Obligations	Aaa	39,569	24,272	-0-	63,841
Corporate Notes	AAA/AA+/A-/A+/A	-0-	48,490	-0-	48,490
Municipal Bonds	AAA/AA+/AA-	24,582	25,327	-0-	49,909
Guaranteed Investment Contracts	BBB+	-0-	19,350	-0-	19,350
Total investments		282,683	270,148	-0-	552,831
Total cash, cash equivalents, and investments		\$ 672,521	\$ 270,148	\$ -0-	\$ 942,669

At December 31, 2021, SMUD's cash, cash equivalents, and investments consist of the following:

Description	Credit Rating	Remaining Maturities (in years)			Total Fair Value
		Less Than 1	1-5	More Than 5	
		(thousands of dollars)			
Cash and Cash Equivalents:					
Cash	N/A	\$ 4,931	\$ -0-	\$ -0-	\$ 4,931
LAIF	Not Rated	526,297	-0-	-0-	526,297
Money Market Funds	AAAm	141,605	-0-	-0-	141,605
Deposit at Notice	N/A	105,922	-0-	-0-	105,922
Commercial Paper	A-1	9,893	-0-	-0-	9,893
Total cash and cash equivalents		788,648	-0-	-0-	788,648
Investments:					
Federal Home Loan Bank	AA+	44,992	-0-	-0-	44,992
Freddie Mac	AA+	20,013	-0-	-0-	20,013
U.S. Treasury Obligations	AA+	39,993	-0-	-0-	39,993
Corporate Notes	AA+	3,975	-0-	-0-	3,975
Municipal Bonds	AAA/AA+/AA-	37,947	24,851	-0-	62,798
Guaranteed Investment Contracts	BBB+	-0-	10,258	-0-	10,258
Total investments		146,920	35,109	-0-	182,029
Total cash, cash equivalents, and investments		\$ 935,568	\$ 35,109	\$ -0-	\$ 970,677

SMUD's cash, cash equivalents, and investments are classified in the Statements of Net Position as follows:

	December 31,	
	2022	2021
	(thousands of dollars)	
Cash, Cash Equivalents, and Investments:		
Revenue bond reserve and debt service funds:		
Revenue bond reserve fund	\$ 2,004	\$ 2,931
Debt service fund	81,263	78,922
Component unit bond reserve and debt service funds	<u>36,118</u>	<u>38,171</u>
Total revenue bond reserve and debt service funds	119,385	120,024
Nuclear decommissioning trust fund	8,980	8,874
Rate stabilization fund	156,016	188,992
Component unit other restricted funds	3,015	6,575
Escrow fund	12,484	15,182
Other restricted funds	14,925	654
Unrestricted funds	<u>627,864</u>	<u>630,376</u>
Total cash, cash equivalents, and investments	<u>\$ 942,669</u>	<u>\$ 970,677</u>

NOTE 8. REGULATORY DEFERRALS

The Board has taken various regulatory actions that result in differences between the recognition of revenues and expenses for ratemaking purposes and their treatment under generally accepted accounting principles for non-regulated entities (see Note 2). These actions result in regulatory assets and deferred inflow of resources, which are summarized in the tables below. Changes to these balances, and their inclusion in rates, occur only at the direction of the Board.

Regulatory Assets (Costs)

Decommissioning. SMUD's regulatory asset relating to the unfunded portion of its decommissioning liability for the Rancho Seco nuclear power plant is being collected through interest earnings on the Trust Fund. Nuclear fuel storage costs and non-radiological decommissioning costs have been collected in rates since 2009.

Derivative Financial Instruments. SMUD's regulatory costs and/or credits relating to investment derivative instruments are intended to defer the net difference between the fair value of derivative instruments and their cost basis, if any. Investment derivative instruments are reflected in rates at contract cost and as such, the balance is charged or credited into rates as the related asset or deferred inflow of resource is utilized (see Note 9).

Debt Issuance Costs. SMUD established a regulatory asset for costs incurred in connection with the issuance of debt obligations, principally underwriter fees and legal costs. The regulatory asset is amortized through 2022 for the portion related to SMUD's debt issuance costs and over the life of the bonds for the portion related to the component units' debt issuance costs. Debt issuance costs after December 31, 2013 are expensed.

Pension. SMUD established a regulatory asset for pension costs related to the implementation of GASB No. 68 which requires SMUD to record a net pension asset or a net pension liability. The regulatory asset is being amortized over a period of 25 years starting in 2018.

OPEB. SMUD established a regulatory asset for OPEB costs related to the implementation of GASB No. 75 which requires SMUD to record a net OPEB asset or net OPEB liability. The regulatory asset will be amortized over a period of 25 years starting in 2020.

Pension/OPEB. In 2022, SMUD established regulatory accounting for pension and OPEB regulatory costs and/or credits to defer recognition of certain expenses related to the amortization of the pension and OPEB deferred outflows and deferred inflows of resources to match such costs in the appropriate accounting period for rate-making purposes.

SMUD's total regulatory costs for future recovery are presented below:

	December 31,	
	2022	2021
	(thousands of dollars)	
Regulatory Costs:		
Decommissioning	\$ 83,882	\$ 83,846
Derivative financial instruments	1,095	5,387
Debt issuance costs	1,255	1,464
Pension – implementation costs	340,544	357,571
Pension – deferred outflows	86,574	-0-
OPEB – implementation costs	281,010	293,783
OPEB – deferred outflows	19,198	-0-
Total regulatory costs	813,558	742,051
Less: regulatory costs to be recovered within one year	(49,312)	(38,303)
Total regulatory costs for future recovery - net	<u>\$ 764,246</u>	<u>\$ 703,748</u>

Regulatory Credits

CIAC. In 2022 and 2021, SMUD added CIAC totaling \$23.9 million and \$24.2 million, respectively, to Regulatory Credits in the Statements of Net Position and recorded \$14.8 million and \$14.2 million of amortization, respectively, to Other income (expense) - net in the Statements of Revenues, Expenses and Changes in Net Position. SMUD's regulatory credit relating to CIAC is intended to offset the revenue and expense associated with this accounting treatment. Thus, this regulatory credit is being amortized into rates over the depreciable lives of the related assets in order to offset the earnings effect of these non-exchange transactions.

Rate Stabilization. SMUD's regulatory credit relating to Rate Stabilization is intended to defer the need for future rate increases when costs exceed existing rates. At the direction of the Board, amounts may be either deferred into this fund (which reduces revenues), or amounts are recognized out of this fund (which increases revenues). The Board authorizes Rate Stabilization Fund (RSF) deferrals on an event driven basis.

In 2022 and 2021, \$30.0 million and \$11.4 million, respectively, was recognized as revenue from the RSF as a result of lower than budgeted energy deliveries from the Western Area Power Administration.

SMUD participates in the carbon allowance auctions under AB-32, the Global Warming Solutions Act (see Note 2). The Board authorized deferral of AB-32 auction proceeds to match the revenue recognition with the related expenses. The difference between the auction proceeds received and the funds spent on AB-32 programs are deferred into future years. In 2022 and 2021, the Board authorized deferring the difference into the RSF and \$23.0 million and \$16.2 million, respectively, was deferred from revenue to the RSF.

SMUD sells LCFS credits under AB-32, the Global Warming Solutions Act (see Note 2). In 2019, the Board authorized deferral of LCFS credit sales to match the revenue recognition with the related expenses. The difference between the LCFS credit sales and the funds spent on LCFS programs are deferred into future years. In 2022, the Board authorized deferring the difference and \$0.7 million was deferred from revenue to the RSF. In 2021, the Board authorized recognizing the difference and \$0.9 million was recognized from the RSF to revenue.

In 2021, the Board authorized SMUD to defer \$35.0 million from revenue to the RSF to offset future one-time specific expenses which may have a significant financial impact on SMUD. In 2022, the Board authorized the use of \$41.0 million of

deferred operating revenue to offset future Community Impact Plan expenditures from 2022 through 2025, and \$1.5 million was recognized from the RSF to revenue.

Hydro Rate Stabilization. The Hydro Rate Stabilization Fund (HRSF) was established through the Hydro Generation Adjustment (HGA) mechanism, which helps manage volatility in energy costs. The HGA mechanism applies a formula based on precipitation and wholesale electricity prices to calculate needed withdrawals from or deposits to the HRSF. The maximum balance of the HRSF is 6 percent of the budgeted retail revenue and the maximum annual transfer in or out of the HRSF is 4 percent of budgeted retail revenue. If the HRSF is depleted, SMUD will apply a hydro rate surcharge to customers' bills up to 4 percent. When the HRSF reaches the 6 percent cap, the Board may authorize a hydro rebate to customers or direct the funds for another purpose. In 2022 and 2021, \$25.1 million and \$18.6 million, respectively, was recognized from the HRSF to revenue as a result of low precipitation.

Senate Bill 1. SMUD implemented a per kilowatt hour solar surcharge, effective January 1, 2008 in order to fund investments in solar required by Senate Bill 1 (SB-1). The difference between the surcharge revenues received and the funds spent on solar initiatives will be recognized or deferred into future years. SMUD has spent less than it collected in SB-1 revenues and has recorded a regulatory credit. Collection of the solar surcharge ended in December 2017 when total collections reached \$130.0 million. In 2022 and 2021, \$0.04 million and \$0.8 million was spent for SB-1 programs, respectively.

Grant Revenues. In 2009, SMUD was awarded several large grants under the American Recovery and Reinvestment Act, which provided significant reimbursements for capital expenditures. In 2010, the Board authorized the deferral of grant income for capital expenditures as regulatory liabilities. Thus, this regulatory credit was deferred to match the depreciable lives of the related capital assets in order to offset the earnings effect of these non-exchange transactions.

TANC Operations Costs. SMUD's cash payments to TANC exceeded TANC's accrual-based costs and SMUD has recorded a regulatory credit.

SMUD's total regulatory credits for future revenue recognition are presented below:

	December 31,	
	2022	2021 Restated
	(thousands of dollars)	
Regulatory Credits:		
CIAC	\$ 298,026	\$ 288,856
Derivative Financial Instruments	2,767	-0-
Rate stabilization	125,032	132,876
Hydro rate stabilization	30,984	56,117
Senate Bill 1	3,430	3,470
Pension – deferred inflows	68,082	-0-
OPEB – deferred inflows	32,983	-0-
Grant revenues	27,920	32,021
TANC operations costs	31,149	29,674
Total regulatory credits	<u>\$ 620,373</u>	<u>\$ 543,014</u>

NOTE 9. DERIVATIVE FINANCIAL INSTRUMENTS

To help provide stable electric rates and to meet the forecasted power needs of its retail customers reliably, SMUD enters into various physical and financial fixed price purchase contracts for electricity and natural gas. These fixed price contracts and swap agreements are intended to hedge the exposure due to highly volatile commodity prices. SMUD also enters into interest rate swap agreements to reduce interest rate risk. SMUD utilizes these derivative financial instruments to mitigate its exposure to certain market risks associated with ongoing operations. SMUD has established policies set by an executive committee for the use of derivative financial instruments for trading purposes. These contracts are evaluated pursuant to SGAS No. 53,

“Accounting and Financial Reporting for Derivative Instruments,” (GASB No. 53) to determine whether they meet the definition of derivative instruments, and if so, whether they effectively hedge the expected cash flows associated with interest rate and commodity price risk exposures.

SMUD applies hedge accounting for derivative instruments that are deemed effective hedges. Under hedge accounting, the increase or (decrease) in the fair value of a hedge is reported as a Deferred Inflow or Deferred Outflow in the Statements of Net Position. Accumulated gains and losses from derivative instruments that do not meet the effectiveness tests are deferred for ratemaking purposes as regulatory assets on the Statements of Net Position (see Note 8).

SMUD executed numerous new gas and power related purchase agreements, some of which are recorded as hedging or investment derivative instruments and are therefore included in the following table. All hedging or investment derivative instruments are recorded at fair value in the Statements of Net Position (see Note 12).

The following is a summary of the fair value, changes in fair value and notional amounts of derivative instruments, grouped by trading strategy, outstanding at December 31, 2022 (amounts in thousands; gains shown as positive amounts, losses as negative):

	2022 Changes in Fair Value		Fair Value at December 31, 2022		
	Current Amount	Noncurrent Amount	Current Amount	Noncurrent Amount	Notional
<u>Cash Flow Hedges:</u>					
(thousands of dollars)					
(thousands of Dekatherms (Dth))					
<u>Asset: Investment Derivative Instruments</u>					
Gas – Commodity	\$ 1,936	\$ (474)	\$ 3,110	\$ 329	688 Dth
Gas – Storage	87	-0-	87	-0-	77 Dth
Gas – Transportation	<u>2,493</u>	<u>-0-</u>	<u>2,673</u>	<u>-0-</u>	155 Dth
Total Investment					
Derivative Instruments	\$ 4,516	\$ (474)	\$ 5,870	\$ 329	
<u>Asset: Hedging Derivative Instruments</u>					
Gas – Commodity	\$ 64,093	\$ 19,348	\$ 95,386	\$ 52,029	57,997 Dth
Gas – Storage	11	-0-	502	-0-	303 Dth
Gas – Transportation	49,472	-0-	53,024	-0-	10,102 Dth
Interest Rate	<u>1,153</u>	<u>28,574</u>	<u>2,437</u>	<u>33,646</u>	\$245,865
Total Hedging					
Derivative Instruments	\$ 114,729	\$ 47,922	\$ 151,349	\$ 85,675	
<u>Liability: Investment Derivative Instruments</u>					
Gas – Commodity	\$ (2,071)	\$ 169	\$ 2,076	\$ 70	927 Dth
Gas – Storage	(90)	-0-	90	-0-	78 Dth
Gas – Transportation	-0-	-0-	-0-	-0-	
Interest Rate	<u>1,815</u>	<u>3,193</u>	<u>937</u>	<u>1,354</u>	\$68,450
Total Investment					
Derivative Instruments	\$ (346)	\$ 3,362	\$ 3,103	\$ 1,424	
<u>Liability: Hedging Derivative Instruments</u>					
Gas – Commodity	\$ 2,493	\$ (5,314)	\$ 12,859	\$ 6,802	30,655 Dth
Gas – Storage	(7,637)	-0-	8,255	-0-	302 Dth
Gas – Transportation	1,040	-0-	522	-0-	4,188 Dth
Interest Rate	<u>700</u>	<u>2,880</u>	<u>-0-</u>	<u>-0-</u>	\$0
Total Hedging					
Derivative Instruments	\$ (3,404)	\$ (2,434)	\$ 21,636	\$ 6,802	

The following is a summary of the fair value, changes in fair value and notional amounts of derivative instruments, grouped by trading strategy, outstanding at December 31, 2021 (amounts in thousands; gains shown as positive amounts, losses as negative):

	2021 Changes in		Fair Value at		
	Fair Value		December 31, 2021		
	Current	Noncurrent	Current	Noncurrent	Notional
	Amount	Amount	Amount	Amount	
<u>Cash Flow Hedges:</u>					
(thousands of dollars)					
(thousands of Dekatherms (Dth))					
<u>Asset: Investment Derivative Instruments</u>					
Gas – Commodity	\$ 1,174	\$ 770	\$ 1,174	\$ 803	2,445 Dth
Gas – Storage	-0-	-0-	-0-	-0-	
Gas – Transportation	180	-0-	180	-0-	78 Dth
Total Investment					
Derivative Instruments	\$ 1,354	\$ 770	\$ 1,354	\$ 803	
<u>Asset: Hedging Derivative Instruments</u>					
Gas – Commodity	\$ 29,964	\$ 30,356	\$ 31,293	\$ 32,681	76,850 Dth
Gas – Storage	190	-0-	491	-0-	380 Dth
Gas – Transportation	2,062	-0-	3,552	-0-	9,395 Dth
Interest Rate	(509)	(1,209)	1,284	5,072	\$263,535
Total Hedging					
Derivative Instruments	\$ 31,707	\$ 29,147	\$ 36,620	\$ 37,753	
<u>Liability: Investment Derivative Instruments</u>					
Gas – Commodity	\$ 4	\$ 24	\$ 5	\$ 239	1,223 Dth
Gas – Storage	-0-	-0-	-0-	-0-	
Gas – Transportation	-0-	-0-	-0-	-0-	
Interest Rate	(1,360)	3,093	2,752	4,547	\$74,375
Total Investment					
Derivative Instruments	\$ (1,356)	\$ 3,117	\$ 2,757	\$ 4,786	
<u>Liability: Hedging Derivative Instruments</u>					
Gas – Commodity	\$ 5,314	\$ 17,210	\$ 15,352	\$ 1,488	12,983 Dth
Gas – Storage	479	-0-	618	-0-	380 Dth
Gas – Transportation	(1,562)	-0-	1,562	-0-	3,805 Dth
Interest Rate	(179)	7,718	700	2,880	\$157,785
Total Hedging					
Derivative Instruments	\$ 4,052	\$ 24,928	\$ 18,232	\$ 4,368	

Objectives and Terms of Hedging Derivative Instruments. The objectives and terms of SMUD's hedging derivative instruments that were outstanding at December 31, 2022 are summarized in the table below. The table is aggregated by the trading strategy. Credit ratings of SMUD's counterparties can be found in the table under Credit Risk. Details of SMUD's interest rate derivative instruments can be found in Note 10.

	Notional Amount Dth	Beginning Date	Ending Date	Minimum Price/Dth	Maximum Price/Dth
Gas – Commodity	90,267	01/01/23	12/31/25	\$ 1.18	\$ 50.38
Gas – Storage	760	01/01/23	02/28/23	1.19	20.50
Gas – Transportation	14,445	01/01/23	12/31/23	(2.86)	16.00

The objectives and terms of SMUD's hedging derivative instruments that were outstanding at December 31, 2021 are summarized in the table below. The table is aggregated by the trading strategy.

	Notional Amount Dth	Beginning Date	Ending Date	Minimum Price/Dth	Maximum Price/Dth
Gas – Commodity	95,478	01/01/08	12/31/25	\$ 1.00	\$ 7.80
Gas – Storage	760	01/01/22	02/28/22	.85	6.20
Gas – Transportation	13,278	01/01/22	12/31/22	(1.30)	1.35

SMUD hedges its interest rate exposure with swaps. One swap is used to convert some of the interest expense associated with the 1997 Series K fixed rate bonds to a variable rate interest expense (see note 10). SMUD also has a swap that is designed to fix the interest expense associated with commercial paper (see Note 11). SMUD has two forward starting swaps that are designed to synthetically fix the interest expense associated with refunding bonds that are expected to be issued to refund the 2013 Series A and 2013 Series B bonds in 2023 (see Note 10).

SMUD hedges its power and natural gas costs so that it can offer predictable rates to its retail electric customers and support its credit rating. SMUD maintains a risk management program to control the price, credit, and operational risks arising from its power and natural gas market activities. Under the program, authorized SMUD employees assemble a portfolio of swaps, futures, and forward contracts over time with the goal of making SMUD's purchased power and fuel budget more predictable.

The hedged risks include those related to interest rate and commodity price fluctuations associated with certain forecasted transactions, including interest rate risk on long-term debt, and forward purchases of gas and electricity to meet load.

Derivative Instruments Not Designated as Hedging Derivative Instruments

Gas and Electric Contracts. SMUD utilizes certain gas swap and electric swap agreements under GASB No. 53 not designated as hedging derivative instruments to mitigate exposure to changes in the market price of natural gas and electricity. The fair value of each agreement, excluding the actual settlements to be paid or received as of the end of the period, is recorded in the Statements of Net Position in either Current or Noncurrent Assets, Investment Derivative Instruments if in an asset position or Current or Noncurrent Liabilities, Investment Derivative Instruments if in a liability position. An offsetting amount is included in Current or Noncurrent Regulatory Costs or Regulatory Credits for future recovery in the Statements of Net Position. The actual settlement payable is recorded in Accounts Payable in the Statements of Net Position, and the actual settlement receivable is recorded in Receivables - net: Wholesale and Other in the Statements of Net Position. The payments and receipts of the actual settlement are recorded as Investment Expense in the Statements of Revenues, Expenses and Changes in Net Position.

Interest Rate Contracts. SMUD utilizes certain interest rate swap agreements not designated as hedging derivative instruments under GASB No. 53 to mitigate exposure to fluctuations in interest rates. The fair value of each agreement, excluding the balance of interest to be paid or received as of the end of the period, is recorded in the Statements of Net Position in either Current or Noncurrent Assets, Investment Derivative Instruments if in an asset position or Current or

Noncurrent Liabilities, Investment Derivative Instruments if in a liability position. An offsetting amount is included in Current or Noncurrent Regulatory Costs or Deferred Outflows or Inflows of Resources in the Statements of Net Position. The interest receivable is recorded in Receivables - net: Wholesale and Other in the Statements of Net Position and the accrued interest is recorded in Interest Payable in the Statements of Net Position. The payments or receipts of the actual settlement are recorded as Investment Expense in the Statements of Revenues, Expenses and Changes in Net Position.

The Board has deferred recognition of the effects of reporting the fair value of Investment Derivative Instruments for ratemaking purposes and maintains regulatory accounts to defer the accounting impact of these accounting adjustments (see Note 8). Fair values may have changed significantly since December 31, 2022.

Basis Risk. This is the risk that arises when a hedged item and a derivative instrument that is attempting to hedge that item are based on different indices. SMUD is exposed to basis risk when it hedges its natural gas purchases, which are priced at various locations, and with NYMEX futures contracts, which settle based on the price at Henry Hub, Louisiana. SMUD enters into basis swaps to hedge against this risk.

Termination Risk. This is the risk that a derivative instrument will terminate prior to its scheduled maturity due to a contractual event. Contractual events include bankruptcy, illegality, default, credit events upon merger, and other events. One aspect of termination risk is that SMUD would lose the hedging benefit of a derivative instrument that becomes subject to a termination event. Another aspect of termination risk is that, if at the time of termination, the mark to market value of the derivative instrument was a liability to SMUD, SMUD could be required to pay that amount to the counterparty. Termination risk is associated with all of SMUD's derivative instruments up to the fair value amounts.

Counterparty Credit Risk. This is the risk of loss resulting when the counterparty is unable or unwilling to fulfill its present and future financial obligations. SMUD can be exposed to significant counterparty credit risk on all derivative instruments. SMUD seeks to minimize credit risk by transacting with creditworthy counterparties. SMUD has established and maintained strict counterparty credit guidelines. SMUD continuously monitors counterparty credit risk and utilizes numerous counterparties to diversify the exposure to potential defaults. Under certain conditions as outlined in SMUD's credit risk management policy, SMUD may require additional credit support under its trading agreements.

Some of SMUD's derivative instrument master agreements contain credit contingent provisions that enable SMUD to maintain unsecured credit as a result of positive investment quality credit ratings from each of the major credit rating agencies. If SMUD's credit rating was to be downgraded, there could be a step-down in SMUD's unsecured credit thresholds, and SMUD's counterparties would require additional collateral. If SMUD's credit rating was to decrease below investment grade, SMUD's unsecured credit thresholds would be reduced to zero, and counterparties to the derivative instruments would demand ongoing full collateralization on derivative instruments in net out of the money positions (see Note 2).

The counterparties' credit ratings at December 31, 2022 and 2021 are shown in the table below. The credit ratings listed are from S&P or Moody's.

	December 31,	
	2022	2021
<u>Counterparty Gas Contracts:</u>		
Bank of Montreal	A+	A+
Barclays Bank PLC	A	A
Citigroup Inc.	BBB+	BBB+
EDF Trading Group	Baa2	Baa2
J.P. Morgan Ventures Energy Corp.	A-	A-
Merrill Lynch	A2	A2
Mitsui Bussan	A	A
Morgan Stanley Capital Group, Inc.	BBB+	BBB+
Nextera	A-	A-
Royal Bank of Canada	AA-	AA-
Shell Trading Market Risk	A	A
<u>Interest Rate Contracts:</u>		
Barclays Bank PLC	A	A
Goldman Sachs Capital Markets, L.P. (J. Aron)	BBB+	BBB+
Morgan Stanley Capital Services, Inc.	A+	A+

NOTE 10. LONG-TERM DEBT

SMUD's total long-term debt is presented below:

	December 31,	
	2022	2021
	(thousands of dollars)	
Electric revenue bonds, 2.13%-6.32%, 2023-2050	\$ 1,841,715	\$ 1,966,925
Subordinated electric revenue bonds, 5.0%, 2023-2049	<u>200,000</u>	<u>200,000</u>
Total electric revenue bonds	2,041,715	2,166,925
Component unit project revenue bonds, 5.0%, 2023-2030	89,735	101,185
Gas and Commodity supply revenue bonds, index rates and 4.0%-5.0%, 2023-2049	<u>682,550</u>	<u>703,100</u>
Total long-term debt outstanding	2,814,000	2,971,210
Bond premiums - net	<u>210,039</u>	<u>242,647</u>
Total long-term debt	3,024,039	3,213,857
Less: amounts due within one year	<u>(138,195)</u>	<u>(132,150)</u>
Total long-term debt - net	<u>\$ 2,885,844</u>	<u>\$ 3,081,707</u>

The summarized activity of SMUD's long-term debt during 2022 is presented below:

	January 1, 2022	Additions	Defeasance Payments or Amortization	December 31, 2022	Amounts Due Within One Year
	(thousands of dollars)				
Electric revenue bonds	\$ 1,966,925	\$ 132,725	\$ (257,935)	\$ 1,841,715	\$ 111,165
Subordinate electric revenue bonds	200,000	-0-	-0-	200,000	-0-
Component unit project revenue bonds	101,185	-0-	(11,450)	89,735	1,845
Gas and Commodity supply revenue bonds	<u>703,100</u>	<u>-0-</u>	<u>(20,550)</u>	<u>682,550</u>	<u>25,185</u>
Total	2,971,210	132,725	(289,935)	2,814,000	<u>\$ 138,195</u>
Unamortized premiums - net	<u>242,647</u>	<u>17,986</u>	<u>(50,594)</u>	<u>210,039</u>	
Total long-term debt	<u>\$ 3,213,857</u>	<u>\$ 150,711</u>	<u>\$ (340,529)</u>	<u>\$ 3,024,039</u>	

The summarized activity of SMUD's long-term debt during 2021 is presented below:

	January 1, 2021	Additions	Defeasance Payments or Amortization	December 31, 2021	Amounts Due Within One Year
	(thousands of dollars)				
Electric revenue bonds	\$ 2,085,120	\$ 106,875	\$ (225,070)	\$ 1,966,925	\$ 100,150
Subordinate electric revenue bonds	200,000	-0-	-0-	200,000	-0-
Component unit project revenue bonds	112,085	-0-	(10,900)	101,185	11,450
Gas and Commodity supply revenue bonds	<u>721,550</u>	<u>-0-</u>	<u>(18,450)</u>	<u>703,100</u>	<u>20,550</u>
Total	3,118,755	106,875	(254,420)	2,971,210	<u>\$ 132,150</u>
Unamortized premiums - net	<u>267,947</u>	<u>23,373</u>	<u>(48,673)</u>	<u>242,647</u>	
Total long-term debt	<u>\$ 3,386,702</u>	<u>\$ 130,248</u>	<u>\$ (303,093)</u>	<u>\$ 3,213,857</u>	

At December 31, 2022 scheduled annual principal maturities and interest are as follows:

	Principal	Interest	Total
	(thousands of dollars)		
2023	\$ 138,195	\$ 139,057	\$ 277,252
2024	139,330	129,638	268,968
2025	151,115	122,436	273,551
2026	157,575	113,645	271,220
2027	166,245	105,782	272,027
2028 – 2032 (combined)	536,515	429,877	966,392
2033 – 2037 (combined)	575,125	278,362	853,487
2038 – 2042 (combined)	403,785	158,167	561,952
2043 – 2047 (combined)	362,275	79,450	441,725
2048 – 2050 (combined)	<u>183,840</u>	<u>13,131</u>	<u>196,971</u>
Total requirements	<u>\$ 2,814,000</u>	<u>\$ 1,569,545</u>	<u>\$ 4,383,545</u>

Interest in the preceding table includes interest requirements for fixed rate debt at their stated rates, variable rate debt covered by interest rate swaps at their fixed rate, and variable rate debt not covered by interest rate swaps using the debt interest rate of 70.0 percent of 1 month London Interbank Offered Rate (LIBOR) plus a fixed fee. The LIBOR rate is based on the rate in effect at December 31, 2022 for the issues. The 2019 Series A and 2019 Series B Put Bonds assume a 3.0 percent fixed rate coupon after mandatory remarketing. The 2018 NCEA Put Bonds assume a 4.0 percent fixed rate coupon after mandatory remarketing. Principal in the preceding table includes known principal payments and the amortization schedule for mandatory remarketing bonds.

The following bonds have been issued and are outstanding at December 31, 2022:

Date	Issue	Final Maturity	Interest Rate	Original Amount	Outstanding Amount
(thousands of dollars)					
<u>Electric Revenue Bonds</u>					
06/15/1997	1997 Series K Bonds	07/01/2024	5.25%	\$ 131,030	\$ 38,165
05/15/2009	2009 Series V Bonds	05/15/2036	6.322%	200,000	200,000
07/29/2010	2010 Series W Bonds	05/15/2036	6.156%	250,000	250,000
05/21/2013	2013 Series A Bonds	08/15/2041	3.75% - 5.0%	132,020	132,020
05/21/2013	2013 Series B Bonds	08/15/2033	3.0% - 5.0%	118,615	81,820
07/14/2016	2016 Series D Bonds	08/15/2028	2.125% - 5.0%	149,890	104,060
12/14/2017	2017 Series E Bonds	08/15/2028	5.0%	202,500	111,585
07/12/2018	2018 Series F Bonds	08/15/2028	5.0%	165,515	103,245
07/25/2019	2019 Series G Bonds	08/15/2041	2.375% - 5.0%	191,875	191,875
05/07/2020	2020 Series H Bonds	08/15/2050	4.0% - 5.0%	400,000	400,000
07/14/2021	2021 Series I Bonds	08/15/2028	5.0%	106,875	96,220
06/23/2022	2022 Series J Bonds	08/15/2033	5.0%	132,725	132,725
<u>Subordinated Electric Revenue Bonds</u>					
07/25/2019	2019 Series A Bonds	08/15/2049	5.0%	100,000	100,000
07/25/2019	2019 Series B Bonds	08/15/2049	5.0%	100,000	100,000
<u>JPA Revenue Bonds</u>					
06/03/2015	2015 SFA Bonds	07/01/2030	5.0%	193,335	89,735
05/31/2007	2007B NCGA#1 Bonds	07/01/2027	Index Rate	668,470	142,935
12/19/2018	2018 NCEA Bonds	07/01/2049	4.0% - 5.0%	539,615	539,615

2022 Bond Issuances. In June 2022, SMUD issued \$132.7 million of 2022 Series J Revenue Refunding Bonds. The purpose of this transaction was to refund the fixed rate debt associated with 2012 Series Y bonds. Proceeds from the 2022 Series J bonds combined with swap termination receipt defeased all the outstanding Series 2012 Series Y bonds. A total of \$157.8 million of bonds were defeased through a legal defeasance, and accordingly, the liability for the defeased bonds has been removed from Long-Term Debt - net in the Statements of Net Position. The refunding resulted in the recognition of a deferred accounting gain of \$6.7 million, which is being amortized over the life of the refunding issue. The 2022 refunding reduced future aggregate debt service payments by \$30.9 million and resulted in a total economic gain of \$28.6 million, which is the difference between the present value of the old and new debt service payments.

2021 Bond Issuances. In July 2021, SMUD issued \$106.9 million of 2021 Series I Revenue Refunding Bonds. The purpose of this transaction was to refund the fixed rate debt associated with 2011 Series X bonds. Proceeds from the 2021 Series I bonds defeased all the outstanding Series 2011 Series X bonds and funded the associated swap termination payment. A total of \$127.0 million of bonds were defeased through a legal defeasance, and accordingly, the liability for the defeased bonds has been removed from Long-Term Debt - net in the Consolidated Statements of Net Position. The refunding resulted in the recognition of a deferred accounting gain of \$3.9 million, which is being amortized over the life of the refunding issue. The termination payments of the interest rate swaps are being amortized over the life of the refunding issue. The 2021 refunding reduced future aggregate debt service payments by \$23.8 million and resulted in a total economic gain of \$22.5 million, which is the difference between the present value of the old and new debt service payments.

Component Unit Bond Defeasances. In September 2019, SCA defeased \$12.9 million of 2009 Series Bonds maturing July 2020 and July 2021, along with the accrued interest using SCA's available funds and \$7.9 million from SMUD. The corresponding amount was placed in an irrevocable trust which had a remaining balance of \$6.9 million as of December 31, 2020. In July 2021, the remaining balance was paid down to zero.

Terms of Debt Indentures. Debt indentures contain a provision that in an event of default, the holders of the majority of the debt outstanding are entitled to declare the outstanding amounts due immediately.

Interest Rate Swap Agreements. A summary of SMUD's four interest rate swap agreements as of December 31, 2022 are as follows. The credit ratings listed are from S&P.

Notional Amount (thousands)	SMUD Pays	Fixed Rate	Floating Rate	Termination Date	Counterparty Credit Rating
\$ 38,165	Variable	5.166%	SIFMA	07/01/24	BBB+
68,450	Fixed	2.894%	63% of 1 M LIBOR	08/15/28	A+
132,020	Fixed	0.7179%	70% of 1M LIBOR	08/15/41	A
75,680	Fixed	0.5543%	70% of 1M LIBOR	08/15/33	A

A summary of SMUD's five interest rate swap agreements as of December 31, 2021 are as follows:

Notional Amount (thousands)	SMUD Pays	Fixed Rate	Floating Rate	Termination Date	Counterparty Credit Rating
\$ 55,835	Variable	5.166%	SIFMA	07/01/24	BBB+
74,375	Fixed	2.894%	63% of 1 M LIBOR	08/15/28	A+
157,785	Fixed	1.607%	SIFMA	08/15/33	A+
132,020	Fixed	0.7179%	70% of 1M LIBOR	08/15/41	A
75,680	Fixed	0.5543%	70% of 1M LIBOR	08/15/33	A

At December 31, 2022 and 2021, SMUD had a fixed-to-variable interest rate swap agreement with a notional amount of \$38.2 million and \$55.8 million, respectively, which is equivalent to the principal amount of SMUD's 1997 Series K Electric Revenue Bonds. Under this swap agreement, SMUD pays a variable rate equivalent to the Securities Industry and Financial Markets Association (SIFMA) Index (3.66 percent and .10 percent at December 31, 2022 and 2021, respectively) and receives fixed rate payments of 5.166 percent as of December 31, 2022 and 2021. In connection with the swap agreement, SMUD has a put option agreement, also with a notional amount of \$38.2 million and \$55.8 million as of December 31, 2022 and 2021, respectively, which gives the counterparty the right to sell to SMUD, at par, either the 1997 Series K Bonds, or a portfolio of securities sufficient to defease the 1997 Series K Bonds. SMUD receives fixed rate payments of 0.01 percent as of December 31, 2022 and 2021, in connection with the put option agreement. The exercise of the option terminates the swap at no cost to SMUD. The term of both the swap and the put is equal to the maturity of the 1997 Series K Bonds.

At December 31, 2022 and 2021, SMUD had one variable-to-fixed interest rate swap agreement with a notional amount of \$68.5 million and \$74.4 million, respectively. This swap was originally entered into for the purpose of fixing the effective interest rate associated with certain of its subordinated bonds that were refunded during 2008. The notional value of the swap is amortized over the life of the swap agreement. SMUD can terminate the swap agreement at any time, with payment or receipt of the fair market value of the swap as of the date of termination. The obligations of SMUD under the swap agreement are not secured by a pledge of revenues of SMUD's electric system or any other property of SMUD.

Additionally, in June 2020, SMUD executed a variable-to-fixed interest rate swap agreement with Barclays Bank PLC with a notional amount of \$132.0 million for the purpose of fixing the effective interest rate associated with the potential refunding of

the 2013 Series A Bonds. The Barclays 2013 Series A swap becomes effective in July 2023. Also, in June 2020, SMUD executed a variable-to-fixed interest rate swap agreement with Barclays Bank PLC with a notional amount of \$75.7 million for the purpose of fixing the effective interest rate associated with the potential refunding of the 2013 Series B Bonds. The Barclays 2013 Series B swap becomes effective in July 2023. The notional values of the two swaps are amortized over the life of their respective swap agreements. SMUD can terminate both swap agreements at any time, with payment or receipt of the fair market value of the swaps as of the date of termination. The obligations of SMUD under the swap agreements are not secured by a pledge of revenues of SMUD's electric system or any other property of SMUD.

In December 2019, SMUD executed a variable-to-fixed interest rate swap agreement with J. Aron with a notional amount of \$127.0 million for the purpose of fixing the effective interest rate associated with the potential refunding of the 2011 Series X Bonds. The J. Aron swap became effective in July 2021. The J. Aron swap was terminated in July 2021. As part of the termination, SMUD made a termination payment to J. Aron in the amount of \$3.0 million. Also, in December 2019, SMUD executed a variable-to-fixed interest rate swap agreement with Morgan Stanley Capital Services with a notional amount of \$157.8 million for the purpose of fixing the effective interest rate associated with the potential refunding of the 2012 Series Y Bonds. The Morgan Stanley Capital Services swap was due to become effective in July 2022 but was terminated in June 2022.

Component Unit Interest Rate Swap Agreements. NCGA had one interest rate swap agreement as of December 31, 2022, which is summarized as follows. The credit ratings listed are from S&P.

Notional Amount (thousands)	NCGA Pays	Fixed Rate	Floating Rate	Termination Date	Credit Support Provider Credit Rating
\$ 142,935	Fixed	4.304%	67% of LIBOR + .72%	07/01/27	A+

NCGA had one interest rate swap agreement as of December 31, 2021, which are summarized as follows:

Notional Amount (thousands)	NCGA Pays	Fixed Rate	Floating Rate	Termination Date	Credit Support Provider Credit Rating
\$ 163,485	Fixed	4.304%	67% of LIBOR + .72%	07/01/27	A+

At December 31, 2022 and 2021, NCGA had a variable-to-fixed interest rate swap agreement with a counterparty for the purpose of fixing the effective interest rate associated with the 2007 Series B Bonds. NCGA pays the counterparty a fixed rate on the notional amount and receives a floating rate equal to 67 percent of the three-month LIBOR (4.77 percent and 0.10 percent at December 31, 2022 and 2021, respectively) plus an interest rate spread, as specified in the swap agreement. The total notional amount of the swap at December 31, 2022 and 2021 was \$142.9 million and \$163.5 million, respectively, and was equivalent to the outstanding principal balance on the NCGA Bonds. The swap is amortized over the life of the swap agreement in a manner corresponding to the principal repayment schedule of the NCGA Bonds. Early termination of the swap would occur upon termination of the prepaid agreement for any reason. Upon early termination, the swap would have no value to either party.

Subordinated Electric Revenue Bonds. Payment of and interest on the Subordinated Electric Revenue Bonds is subordinate to the payment of the principal and interest on SMUD's Electric Revenue Bonds.

Component Unit Bonds. The component units of SMUD have each issued bonds to finance their respective projects. The revenue stream to pay SFA bonds' debt service is provided by a "take-or-pay" power purchase agreement and is therefore not dependent on the successful operation of the project. SMUD guarantees to make payments sufficient to pay principal and interest and all other payments required to be made under SFA's indenture of trust. SFA is not required to repay SMUD for any amounts paid under this guarantee. The revenue stream to pay NCGA and NCEA bonds' debt service is provided by "take-and-pay" purchase agreements. Therefore, principal and interest associated with these bonds are paid solely from the

revenues and receipts collected in connection with the operation of the project. Most operating revenues earned by NCGA and NCEA are collected from SMUD in connection with the sale of gas or electricity to SMUD. The ability for NCGA and NCEA to service debt is dependent on various parties (particularly MSCG, as gas supplier for NCGA and J. Aron, as commodity supplier for NCEA) meeting their contractual obligations.

Callable Bonds. SMUD has \$488.8 million of Electric Revenue Bonds that are currently callable, \$450.0 million of which are fixed rate Build America Bonds debt and \$38.8 million of 2016 Series D Bonds. SMUD also has \$207.7 million of bonds that become callable from 2023 through 2027, and these bonds can be called until maturity. SMUD also has a four-month call period on the 2019 Series A and 2019 Series B Bonds in advance of their mandatory remarketing purchase date in 2023 and 2025, respectively.

Collateral. The principal and interest on SMUD's bonds are payable exclusively from, and are collateralized by, a pledge of the net revenues of SMUD's electric system. Neither the credit nor the taxing power of SMUD is pledged to the payment of the bonds and the general fund of SMUD is not liable for the payment thereof.

Covenants. SMUD's bond resolutions contain various covenants that include requirements to maintain minimum debt service coverage ratios, certain other financial ratios, stipulated minimum funding of revenue bond reserves, and various other requirements including a rate covenant to raise rates to maintain minimum debt service coverage.

SMUD has pledged future net electric revenues, component unit net project revenues, and net gas supply prepayment revenues to repay, in electric revenue, component unit project revenue, and gas supply prepayment revenue bonds issued from 1997 through 2022. Proceeds from the bonds provided financing for various capital improvement projects, component unit capital projects, and the prepayments of a twenty-year supply of natural gas and a thirty-year supply of commodity. The bonds are payable solely from the net revenues generated by SMUD's electrical sales, component unit project revenues, and gas supply prepayment revenues and are payable through 2050 at December 31, 2022.

GASB Statement No. 48, "*Sales and Pledges of Receivables and Future Revenues and Intra-Entity Transfers of Assets and Future Revenues*," disclosures for pledged revenues are as follows:

	December 31,	
	2022	2021
	(thousands of dollars)	
Pledged future revenues	\$ 2,814,000	\$ 2,971,210
Principal and interest payments for the year ended	\$ 438,725	\$ 404,679
Total net revenues for the year ended	\$ 574,300	\$ 720,414
Total remaining principal and interest to be paid	\$ 4,383,545	\$ 4,693,100
Annual principal and interest payments as a percent of net revenues for the year ended	76%	56%

NOTE 11. COMMERCIAL PAPER NOTES

SMUD issues Commercial Paper Notes (Notes) to finance or reimburse capital expenditures. SMUD's commercial paper program is \$400.0 million. At December 31, 2022, there were \$150.0 million Notes outstanding and at December 31, 2021, there were no Notes outstanding. SMUD's commercial paper program is backed by \$407.4 million in letter of credit agreements (LOCs) and a revolving credit agreement with three separate banks. The LOCs are calculated as the sum of the maximum principal amount of the Notes plus interest thereon at a maximum rate of ten percent per annum for a period of 90 days calculated on the basis of a year of 365 days and the actual number of days elapsed. There have not been any term advances under the LOCs or the revolving credit agreement. The LOCs and revolving credit agreement contain a provision that in an event of default, the outstanding amounts may become immediately due.

The summarized activity of SMUD's Notes during 2022 and 2021 is presented below:

	Balance at Beginning of Year		Additions		Reductions		Balance at End of Year
			(thousands of dollars)				
December 31, 2022	\$	-0-	\$	150,000	\$	-0-	\$ 150,000
December 31, 2021	\$	-0-	\$	-0-	\$	-0-	\$ -0-

NOTE 12. FAIR VALUE MEASUREMENT

GASB No. 72 defines fair value as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date (an exit price). SMUD utilizes market data or assumptions that market participants would use in pricing the asset or liability, including assumptions about risk and the risks inherent in the inputs to the valuation technique.

GASB No. 72 establishes a fair value hierarchy that prioritizes the inputs used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). The three levels of the fair value hierarchy defined by GASB No. 72 are as follows:

- Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities.
- Level 2 inputs are inputs other than quoted prices included in Level 1 that are observable for an asset or liability, either directly or indirectly.
- Level 3 inputs are unobservable inputs that reflect SMUD's own assumptions about factors that market participants would use in pricing the asset or liability.

The valuation methods of the fair value measurements are as follows:

- LAIF – uses the fair value of the pool's share price multiplied by the number of shares held. This pool can include a variety of investments such as U.S. government securities, federal agency securities, negotiable certificates of deposit, bankers' acceptances, commercial paper, corporate bonds, bank notes, and other investments. The fair values of the securities are generally based on quoted and/or observable market prices.
- U.S. Government Agency Obligations – uses a market based approach which considers yield, price of comparable securities, coupon rate, maturity, credit quality and dealer-provided prices.
- U.S. Treasury Obligations – uses a market approach based on institutional bond quotes. Evaluations are based on various market and industry inputs.
- Corporate Notes – uses a market based approach. Evaluations are based on various market and industry inputs.
- Municipal Bonds – uses a market approach based on institutional bond quotes. Evaluations are based on various market and industry inputs.
- Investment and Hedging Derivative Instruments (see Note 9):
 - Interest rate swap agreements – uses the present value technique. The fair value of the interest rate swap agreements are calculated by discounting the expected cash flows at their corresponding zero coupon rate. The cash flows and discount rates are estimated based on a 1-month LIBOR forward curve from Bloomberg and assuming SIFMA is equal to 70.0 percent of 1-month LIBOR.
 - Electricity and Gas related agreements – uses the market approach based on monthly quoted prices from an independent external pricing service. The fair values for natural gas and electricity derivative financial instruments are estimated by comparing contract prices to prevailing market quotes in active markets (i.e., Henry Hub and So Cal) where identical contracts are available. When external quoted market prices are not available, SMUD uses an internally developed valuation model utilizing short-term observable inputs.

The following tables identify the level within the fair value hierarchy that SMUD's financial assets and liabilities were accounted for on a recurring basis as of December 31, 2022 and 2021, respectively. As required by GASB No. 72, financial assets and liabilities are classified in their entirety based on the lowest level of input that is significant to the fair value measurement. SMUD's assessment of the significance of a particular input to the fair value measurement requires judgment and may affect the valuation of the fair value of liabilities and their placement within the fair value hierarchy levels.

Recurring Fair Value Measures

	At fair value as of December 31, 2022		
	Level 1	Level 2	Total
	(thousands of dollars)		
Investments, including cash and cash equivalents:			
LAIF	\$ -0-	\$ 85,502	\$ 85,502
U.S. Government Agency Obligations	-0-	371,241	371,241
U.S. Treasury Obligations	63,841	-0-	63,841
Corporate Notes	-0-	48,490	48,490
Municipal Bonds	-0-	49,909	49,909
Total Investments, including cash and cash equivalents	<u>\$ 63,841</u>	<u>\$ 555,142</u>	<u>\$ 618,983</u>
Investment Derivative Instrument Assets:			
Gas related agreements	\$ 6,199	\$ -0-	\$ 6,199
Total Investment Derivative Instrument Assets	<u>\$ 6,199</u>	<u>\$ -0-</u>	<u>\$ 6,199</u>
Hedging Derivative Instrument Assets:			
Gas related agreements	\$ 200,941	\$ -0-	\$ 200,941
Interest rate swap agreements	-0-	36,083	36,083
Total Hedging Derivative Instrument Assets	<u>\$ 200,941</u>	<u>\$ 36,083</u>	<u>\$ 237,024</u>
Investment Derivative Instrument Liabilities:			
Gas related agreements	\$ 2,236	\$ -0-	\$ 2,236
Interest rate swap agreements	-0-	2,291	2,291
Total Investment Derivative Instrument Liabilities	<u>\$ 2,236</u>	<u>\$ 2,291</u>	<u>\$ 4,527</u>
Hedging Derivative Instrument Liabilities:			
Gas related agreements	\$ 28,438	\$ -0-	\$ 28,438
Interest rate swap agreements	-0-	-0-	-0-
Total Hedging Derivative Instrument Liabilities	<u>\$ 28,438</u>	<u>\$ -0-</u>	<u>\$ 28,438</u>

Recurring Fair Value Measures

	At fair value as of December 31, 2021		
	Level 1	Level 2	Total
	(thousands of dollars)		
Investments, including cash and cash equivalents:			
LAIF	\$ -0-	\$ 526,297	\$ 526,297
U.S. Government Agency Obligations	-0-	65,005	65,005
U.S. Treasury Obligations	39,993	-0-	39,993
Corporate Notes	-0-	3,975	3,975
Municipal Bonds	-0-	62,798	62,798
Total Investments, including cash and cash equivalents	<u>\$ 39,993</u>	<u>\$ 658,075</u>	<u>\$ 698,068</u>
Investment Derivative Instrument Assets:			
Gas related agreements	\$ 2,157	\$ -0-	\$ 2,157
Total Investment Derivative Instrument Assets	<u>\$ 2,157</u>	<u>\$ -0-</u>	<u>\$ 2,157</u>
Hedging Derivative Instrument Assets:			
Gas related agreements	\$ 68,017	\$ -0-	\$ 68,017
Interest rate swap agreements	-0-	6,356	6,356
Total Hedging Derivative Instrument Assets	<u>\$ 68,017</u>	<u>\$ 6,356</u>	<u>\$ 74,373</u>
Investment Derivative Instrument Liabilities:			
Gas related agreements	\$ 245	\$ -0-	\$ 245
Interest rate swap agreements	-0-	7,298	7,298
Total Investment Derivative Instrument Liabilities	<u>\$ 245</u>	<u>\$ 7,298</u>	<u>\$ 7,543</u>
Hedging Derivative Instrument Liabilities:			
Gas related agreements	\$ 19,020	\$ -0-	\$ 19,020
Interest rate swap agreements	-0-	3,580	3,580
Total Hedging Derivative Instrument Liabilities	<u>\$ 19,020</u>	<u>\$ 3,580</u>	<u>\$ 22,600</u>

NOTE 13. ACCRUED DECOMMISSIONING LIABILITY

Asset Retirement Obligations (ARO). SMUD recognizes AROs for its Rancho Seco nuclear power plant facility and the CVFA power plant facility. This statement requires measurement of the ARO be based on the best estimate of the current value of outlays expected to be incurred. The best estimate should be determined using all available evidence and requires probability weighting of potential outcomes when sufficient evidence is available. This statement also requires the current value be adjusted for the effects of the general inflation or deflation and an evaluation of relevant factors that may significantly change the estimated asset retirement outlays at least annually.

Rancho Seco Nuclear Power Plant. With the completion of nuclear decommissioning of the former 913 MW nuclear power plant, and the subsequent termination of the 10 Code of Federal Regulations (CFR) 50 license by the Nuclear Regulatory Commission (NRC) effective August 31, 2018, all remaining Rancho Seco decommissioning liability relates to the Independent Spent Fuel Storage Installation (ISFSI) licensed under 10 CFR Part 72. Nuclear decommissioning is the process of safely removing nuclear facilities from service and reducing residual radioactivity to a level that permits termination of the NRC licenses and release of the property for unrestricted use. Final decommissioning of the ISFSI will occur after the spent nuclear fuel (SNF) and Greater Than Class C (GTCC) radioactive waste are removed from the site and SMUD demonstrates that the site is suitable for release in accordance with release criteria specified in 10 CFR 20, Subpart E and an approved License Termination Plan.

The Department of Energy (DOE), under the Nuclear Waste Policy Act (NWP) of 1982 as amended, is responsible for permanent disposal of spent nuclear fuel and GTCC radioactive waste, which are currently stored in the Part 72 licensed ISFSI. SMUD has a contract with the DOE for the removal and disposal of SNF and GTCC waste. All SMUD's SNF and GTCC waste are currently stored in sealed canisters in the ISFSI. However, the date when DOE will remove the fuel and GTCC waste is uncertain. In 2010, the DOE formally withdrew the application for licensing of Yucca Mountain as a

high-level waste repository. While the court-ordered reinstatement of NRC license review activities of Yucca Mountain have yielded generally positive results, Yucca Mountain remains speculative as a disposal option for SMUD's used nuclear fuel. The DOE also announced in January 2010 the creation of a Blue-Ribbon Commission to study alternatives for developing a repository for the nation's used nuclear fuel. The Commission provided a final report on alternatives in January 2012. The DOE evaluated the recommendations and published the report "Strategy for the Management and Disposal of Used Nuclear Fuel and High-Level Radioactive Waste" in January 2013.

The next phase of the process will be for Congress and the President of the United States to consider the recommendations and enact legislation to implement the recommendations. At this time, two license applications have been submitted to the NRC for the construction and operation of Consolidated Interim Storage Facility(s) that would store SNF and GTCC waste on an interim basis. One of these applications has been approved (and a license issued) and one application is currently under review by the NRC. Should the NRC license one or both facilities, Congress will have to modify the NHPA to allow for its use. In May 2018, the U.S. House of Representatives passed H.R. 3053 – the Nuclear Waste Policy Amendments Act, which was co-sponsored by Representative Doris Matsui and 109 other members of Congress. This bill includes a provision to allow a Consolidated Interim Storage Facility to store fuel from permanently shut down sites like Rancho Seco. The U.S. Senate did not act on the bill. Until legislation is passed which includes a significant step towards removal of the used nuclear fuel at the Rancho Seco facility, SMUD is committed to the safe and secure storage of its SNF and GTCC waste under its Part 72 license until DOE fulfills its obligation to dispose of this material in accordance with NHPA. In support of this commitment, SMUD submitted its ISFSI license renewal application to the NRC in March of 2018. The NRC issued Renewed Licensee No. SNM-2510 on March 9, 2020. This renewed license authorizes the continued storage of SMUD's SNF and GTCC until June 30, 2060.

The Rancho Seco decommissioning liability is based on an internal study of the remaining decommissioning costs, which consist of: 1) annual spent fuel management costs, 2) transportation of the canisters in the ISFSI and 3) termination of the Part 72 license. The largest part of the decommissioning estimate is the annual spent fuel management costs; next year's annual budget is used for the estimate. The other costs were estimated based on prior experience and studies and prepared by management representatives of the nuclear power plant facility. The costs in the estimate were in 2019 dollars. An employment cost index was used to adjust the other costs portion of the obligation for inflation in 2022. Probability weighting was assigned for two scenarios: 1) spent nuclear fuel will be removed from the site by 2028 and 2) spent nuclear fuel will be removed from the site by 2035. SMUD uses its Trust Fund (see Note 2) to demonstrate financial assurance to the NRC that there are enough funds to complete the termination of the Part 72 license; the balance of the Trust Fund at December 31, 2022 is \$9.0 million.

SFA's Carson Power Plant (Carson). SFA's ground lease agreement with the Sacramento Regional County Sanitation District for Carson requires SFA to restore the premises to its original condition upon termination of the contract. A new study to determine the current value of the asset retirement obligation was conducted by an external contractor who specializes in decommissioning studies. The expected costs and scope of work were based on the most recent cost estimate and assumes a contractor will be responsible for the work and that decommissioning would take place between 2025 and 2027. The estimated costs were in 2018 dollars. The result of this study was used to determine the new balance of the ARO and the deferred outflows at January 1, 2018, in order to account for the 2018 activity. The annual All Urban Consumer Price Index was used to adjust this obligation for inflation in 2022. The remaining useful life of Carson's assets is three years at December 31, 2022.

The current portion of the Accrued Decommissioning liability represents SMUD's estimate of actual expenditures for Rancho Seco in the next year, as set forth in the annual budget.

At December 31, 2022 and 2021, SMUD's Accrued Decommissioning balance in the Statements of Net Position was \$95.9 million and \$95.1 million, respectively.

NOTE 14. PENSION PLANS

Summary of Significant Accounting Policies. For purposes of measuring net pension liability, deferred outflows of resources and deferred inflows of resources related to pensions, and pension expense, information about the fiduciary net position of the pension plans and additions to/deductions from the fiduciary net position have been determined on the same basis as they are reported by the California Public Employees' Retirement System (PERS) Financial Office. For this purpose, benefit payments (including refunds of employee contributions) are recognized when currently due and payable in accordance with the benefit terms. Investments are reported at fair value.

Plan Description and Benefits Provided. SMUD participates in PERS, an agent multiple-employer public employee defined benefit pension plan (PERS Plan). PERS provides retirement and disability benefits, annual cost-of-living adjustments, and death benefits to plan members and beneficiaries. PERS acts as a common investment and administrative agent for participating public entities within the State. Benefit provisions and all other requirements are established by State statute and SMUD policies. The pension plan provides retirement benefits, survivor benefits, and death and disability benefits based upon employee's years of credited service, age, and final compensation. A full description of the pension plan regarding number of employees covered, benefit provision, assumptions (for funding, but not accounting purposes), and membership information are included in the annual actuarial valuation reports as of June 30, 2021 and June 30, 2020.

GASB No. 68 requires that the reported results must pertain to liability and asset information within certain defined timeframes. The following timeframes are used for the year ended:

PERS Plan

	December 31,	
	2022	2021
Valuation date	June 30, 2021	June 30, 2020
Measurement date	June 30, 2022	June 30, 2021

Employees Covered by Benefit Terms. The following employees were covered by the benefit terms for the year ended:

PERS Plan

	December 31,	
	2022	2021
Inactive employees or beneficiaries currently receiving benefit payments	3,116	3,068
Inactive employees entitled to but not yet receiving benefit payments	987	974
Active employees	2,168	2,214
Total employees covered by benefit terms	<u>6,271</u>	<u>6,256</u>

Contributions. Section 20814(c) of the California Public Employees' Retirement Law requires that the employer contribution rates for all public employers be determined on an annual basis by the actuary and shall be effective on the July 1 following notice of a change in the rate. The total plan contributions are determined through PERS' annual actuarial valuation process. The actuarially determined rate is the estimated amount necessary to finance the costs of benefits earned by employees during the year, with an additional amount to finance any unfunded accrued liability. The employer is required to contribute the difference between the actuarially determined rate and the contribution rate of employees. For the PERS fiscal years ended June 30, 2022 and 2021, the average active employee contribution rate is 6.8 percent of annual pay. For the PERS fiscal year ended June 30, 2022, the employer's contribution rate is 9.0 percent of annual payroll plus \$36.3 million for the unfunded accrued liability contribution. For the PERS fiscal year ended June 30, 2021, the employer's contribution rate is 9.1 percent of annual payroll plus \$33.5 million for the unfunded accrued liability contribution. Employer contribution rates may change if plan contracts are amended. For the fiscal years ended June 30, 2022 and 2021, SMUD made contributions recognized by the PERS Plan in the amount of \$114.5 million and \$229.4 million, respectively.

Net Pension Asset (NPA) or Liability (NPL). SMUD's NPA or NPL at December 31, 2022 and 2021 was measured at June 30, 2022 and 2021, respectively. The total pension liability used to calculate the NPA or NPL was determined by actuarial valuations as of June 30, 2021 and 2020 rolled forward using generally accepted actuarial procedures to the June 30, 2022 and 2021 measurement dates for the PERS Plan.

Actuarial Methods and Assumptions. The actuarial methods and assumptions used for the December 31, 2022 and December 31, 2021 total pension liabilities are as follows for the PERS Plan:

December 31, 2022:

Actuarial Cost Method	Entry age actuarial cost method
Discount Rate	6.90%
Inflation	2.30%
Salary Increases	Varies by entry age and service
Mortality Rate Table	The mortality table used was developed based on PERS' specific data. The probabilities of mortality are based on the 2021 PERS' Experience Study for the period from 2001 to 2019. Pre-retirement and Post-retirement mortality rates include generational mortality improvement using the Society of Actuaries Scale 80% of scale MP-2020.
Post Retirement Benefit Increase	For 2022 and 2021, the lesser of contract COLA or 2.30% until Purchasing Power Protection Allowance floor on purchasing power applies, 2.30% thereafter

December 31, 2021:

Actuarial Cost Method	Entry age normal
Discount Rate	7.15%
Inflation	2.50%
Salary Increases	Varies by entry age and service
Mortality Rate Table	The mortality table used was developed based on PERS' specific data. The probabilities of mortality are based on the 2017 PERS' Experience Study for the period from 1997 to 2015. Pre-retirement and Post-retirement mortality rates include 15 years of projected mortality improvement using the Society of Actuaries Scale 90% of scale MP-2016.
Post Retirement Benefit Increase	For 2021 and 2020, the lesser of contract COLA or 2.50% until Purchasing Power Protection Allowance floor on purchasing power applies, 2.50% thereafter

Discount Rates. For the PERS Plan, the discount rate used to measure the total pension liability for the years ended December 31, 2022 and 2021 was 6.90 percent and 7.15 percent, respectively. For the year ended December 31, 2022, the projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current member contribution rates and that contributions from employers will be made at statutorily required rates, actuarially determined. Based on those assumptions, the PERS Plan was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

The long-term expected rate of return on pension plan investments was determined using a building-block method in which expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. Using historical returns of all the funds' asset classes, expected compound (geometric) returns were calculated over the next 20 years using a building-block approach. The expected rate of return was then adjusted to account for assumed administrative expenses of 10 Basis points.

The expected real rates of return by asset class used for December 31, 2022 are as follows:

<u>Asset Class</u>	<u>Assumed Asset Allocation</u>	<u>Real Return</u>
Global Equity – Cap-weighted	30.0%	4.54%
Global Equity – Non-Cap-weighted	12.0%	3.84%
Private Equity	13.0%	7.28%
Treasury	5.0%	0.27%
Mortgage-backed Securities	5.0%	0.50%
Investment Grade Corporates	10.0%	1.56%
High Yield	5.0%	2.27%
Emerging Market Debt	5.0%	2.48%
Private Debt	5.0%	3.57%
Real Estate	15.0%	3.21%
Leverage	(5.0%)	(0.59%)

The expected real rates of return by asset class used for December 31, 2021 are as follows:

<u>Asset Class</u>	<u>Current Target Allocation</u>	<u>Real Return Years 1-10</u>	<u>Real Return Years 11+</u>
Global Equity	50.0%	4.80%	5.98%
Global Fixed Income	28.0%	1.00%	2.62%
Inflation Assets	0%	0.77%	1.81%
Private Equity	8.0%	6.30%	7.23%
Real Estate	13.0%	3.75%	4.93%
Liquidity	1.0%	0%	(0.92%)

Changes in the NPA or NPL. The following table shows the changes in NPA or NPL recognized over the year ended December 31, 2022:

	<u>Total Pension Liability (a)</u>	<u>Increase (Decrease) Plan Fiduciary Net Position (b)</u>	<u>Net Pension (Asset) Liability (a) – (b)</u>
		(thousands of dollars)	
Balances at January 1, 2022	<u>\$ 2,486,667</u>	<u>\$ 2,514,405</u>	<u>\$ (27,738)</u>
Changes recognized for the measurement period:			
Service cost	41,885	-0-	41,885
Interest	167,926	-0-	167,926
Changes in assumptions	26,275	-0-	26,275
Differences between expected and actual experience	(31,370)	-0-	(31,370)
Contributions - employer	-0-	114,476	(114,476)
Contributions - employee	-0-	18,096	(18,096)
Net investment income	-0-	(189,479)	189,479
Benefit payments	(137,603)	(137,603)	-0-
Administrative expense	-0-	(1,566)	1,566
Net changes	<u>67,133</u>	<u>(196,076)</u>	<u>263,189</u>
Balances at December 31, 2022	<u><u>\$ 2,553,780</u></u>	<u><u>\$ 2,318,329</u></u>	<u><u>\$ 235,451</u></u>

The following table shows the changes in NPA or NPL recognized over the year ended December 31, 2021:

	Total Pension Liability (a)	Increase (Decrease) Plan Fiduciary Net Position (b) (thousands of dollars)	Net Pension (Asset) Liability (a) – (b)
Balances at January 1, 2021	\$ 2,415,034	\$ 1,945,214	\$ 469,820
Changes recognized for the measurement period:			
Service cost	38,900	-0-	38,900
Interest	168,984	-0-	168,984
Changes in assumptions	-0-	-0-	-0-
Differences between expected and actual experience	(5,875)	-0-	(5,875)
Contributions - employer	-0-	229,440	(229,440)
Contributions - employee	-0-	17,552	(17,552)
Net investment income	-0-	454,518	(454,518)
Benefit payments	(130,376)	(130,376)	-0-
Administrative expense	-0-	(1,943)	1,943
Net changes	71,633	569,191	(497,558)
Balances at December 31, 2021	\$ 2,486,667	\$ 2,514,405	\$ (27,738)

Sensitivity of the NPA or NPL to Changes in the Discount Rate. The following presents the NPA or NPL of the Plan as of the measurement date, calculated using the current discount rate, as well as what the NPA or NPL would be if it were calculated using a discount rate that is 1 percentage-point lower or 1 percentage-point higher than the current discount rate:

	1% Decrease (5.90%)	Current Discount Rate (6.90%) (thousands of dollars)	1% Increase (7.90%)
PERS Plan			
Plan's NPL (NPA), December 31, 2022	\$ 562,974	\$ 235,451	\$ (36,397)
	1% Decrease (6.15%)	Current Discount Rate (7.15%)	1% Increase (8.15%)
Plan's NPL (NPA), December 31, 2021	286,474	(27,738)	(289,153)

Pension Plan Fiduciary Net Position. Detailed information about the PERS Plan's fiduciary net position is available in the separately issued PERS Plan financial statements. This report, the audited financial statements, and other reports can be obtained at the PERS' website at www.calpers.ca.gov.

Pension Expense or Income and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions. For the year ended December 31, 2022 SMUD recognized pension expense of \$41.0 million and for the year ended December 31, 2021, SMUD recognized a credit to pension expense of \$27.9 million.

At December 31, 2022 and 2021, SMUD reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	December 31,	
	2022	2021
	(thousands of dollars)	
Deferred outflows of resources:		
Changes of assumptions	19,866	-0-
Differences between expected and actual experience	2,495	9,710
Differences between projected and actual earnings on pension plan investments	121,257	-0-
Employer's contributions to the Plan subsequent to the measurement of total pension liability	31,860	71,624
Total deferred outflows of resources	<u>\$ 175,478</u>	<u>\$ 81,334</u>
Deferred inflows of resources:		
Changes of assumptions	\$ -0-	\$ -0-
Differences between expected and actual experience	26,656	4,406
Differences between projected and actual earnings on pension plan investments	-0-	225,301
Total deferred inflows of resources	<u>\$ 26,656</u>	<u>\$ 229,707</u>

Amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be subject to regulatory accounting as follows (see Note 8):

Year ended December 31:

2023	\$ 20,052
2024	15,538
2025	8,976
2026	72,396
2027	-0-
Thereafter	-0-

Other Plans. SMUD provides its employees with two cash deferred compensation plans: one pursuant to Internal Revenue Code (IRC) Section 401(k) (401(k) Plan) and one pursuant to IRC Section 457 (457 Plan) (collectively, the Plans). The Plans are contributory plans in which SMUD's employees contribute the funds. Each of SMUD's eligible full-time or permanent part-time employees may participate in either or both Plans, and amounts contributed are vested immediately. Such funds are held by a Trustee in trust for the employees upon retirement from SMUD service and, accordingly, are not subject to the general claims of SMUD's creditors. SMUD is responsible for ensuring compliance with IRC requirements concerning the Plans and has the fiduciary duty of reasonable care in the selection of investment alternatives, but neither SMUD, nor its Board or officers have any liability for market variations in the Plans' asset values. SMUD employees are responsible for determining how their funds are to be invested and pay all ongoing fees related to the Plans. The Plans are currently not subject to discrimination testing, nor the requirements of the Employee Retirement Income Security Act of 1974. SMUD employees participating in the Plans are allowed to contribute a portion of their gross income not to exceed the annual dollar limits prescribed by the IRC.

SMUD makes annual contributions to the 401(k) Plan on behalf of certain employees pursuant to a memorandum of understanding with both of its collective bargaining units. SMUD also matches non-represented employee contributions to the 401(k) Plan up to a set amount. SMUD made contributions into the 401(k) Plan of \$7.0 million in 2022 and \$6.1 million in 2021. SMUD does not match employee contributions, nor make contributions on behalf of its employees to the 457 Plan. Participating employees made contributions into both Plans totaling \$32.4 million in 2022 and \$30.6 million in 2021.

NOTE 15. OTHER POSTEMPLOYMENT BENEFITS

Summary of Significant Accounting Policies. For purposes of measuring the net OPEB asset or liability, deferred outflows of resources and deferred inflows of resources related to OPEB, and OPEB expense, information about the fiduciary net position of the OPEB plan and additions to/deductions from the OPEB plan's fiduciary net position have been determined on the same basis as they are reported by the California Employers' Retiree Benefit Trust (CERBT). For this purpose, SMUD recognizes benefit payments when due and payable in accordance with the benefit terms. Investments are reported at fair value.

Plan Description and Benefits Provided. SMUD is a member of CERBT. The CERBT Fund is an IRC Section 115 Trust set up for the purpose of receiving employer contributions to prefund OPEB for retirees and their beneficiaries. CERBT is an agent multiple-employer defined benefit OPEB plan (OPEB Plan) administered by PERS. The OPEB Plan provides medical, dental and long-term disability benefits for retirees and their beneficiaries, in accordance with SMUD policy and negotiated agreements with employee representation groups. The benefit, benefit levels, retiree contributions and employer contributions are governed by SMUD and can be amended by SMUD through its personnel manual and union contracts. Any changes to these benefits would be approved by SMUD's Board and unions.

Employees Covered by Benefit Terms. The following employees were covered by the benefit terms:

	December 31,	
	2022	2021
Inactive employees or beneficiaries currently receiving benefit payments	2,349	2,302
Inactive employees entitled to but not yet receiving benefit payments	46	42
Active employees	2,144	2,114
Total employees covered by benefit terms	4,539	4,458

Contributions. OPEB contributions are elective and not required. In December 2018, SMUD split its CERBT assets across two asset strategies to better align trust assets with liabilities (Strategy 1 for active employees and retirements after June 30, 2018 and Strategy 3 for retirements before July 1, 2018). SMUD contributes the normal cost to the CERBT, but annually receives reimbursement for cash benefit payments from the CERBT. SMUD may also elect to put additional contributions into the OPEB Plan. For the OPEB Plan's fiscal years ended June 30, 2022 and 2021, SMUD made contributions recognized by the OPEB Plan in the amounts of \$0.9 million and \$0.8 million, respectively.

Net OPEB Asset (NOA) or Liability (NOL). SMUD's NOL at December 31, 2022 and NOA at December 31, 2021 were measured as of June 30, 2022 and 2021, respectively, and the total OPEB liability used to calculate the NOA/NOL was determined by actuarial valuations as of those dates.

Actuarial Methods and Assumptions. The actuarial methods and assumptions used for the December 31, 2022 and December 31, 2021 total OPEB liabilities are as follows:

Discount Rate	5.88% (2022). Blended discount rate based on projected benefit streams expected to be paid from each Strategy. 5.84% (2021)
Inflation	2.50% (2022 and 2021)
Salary Increases	Aggregate – 2.75%; Merit - PERS 2000-2019 Experience Study (2022); PERS 1997-2015 Experience Study (2021)
Mortality, Retirement, Disability, Termination	PERS 2000-2019 Experience Study (2022); PERS 1997-2015 Experience Study (2021)
Mortality Improvement	Mortality projected fully generational with Scale MP-21 (2022), MP-20 (2021)
Healthcare Cost Trend Rates	Non-Medicare: 6.25% for 2024, decreasing to an ultimate rate of 3.75% in 2076 (2022); 6.5% for 2022, decreasing to an ultimate rate of 3.75% in 2076 (2021) Medicare: 5.45% for 2024, decreasing to an ultimate rate of 3.75% in 2076 (2022); 5.65% for 2022, decreasing to an ultimate rate of 3.75% in 2076 (2021) Kaiser Medicare: 4.45% for 2024, decreasing to an ultimate rate of 3.75% in 2076 (2022); 4.6% for 2022, decreasing to an ultimate rate of 3.75% in 2076 (2021)

Discount Rates. For the OPEB Plan, the discount rate used to measure the total OPEB liability was 5.88 percent and 5.84 percent for the years ended December 31, 2022 and 2021, respectively. This rate is a blended discount rate based on projected benefit streams expected to be paid from Strategies 1 and 3. The projection of cash flows used to determine the discount rate assumed that SMUD contributes the full normal cost to the trust and only takes reimbursement from the trust of the cash benefit payments. Because the implied subsidy benefit payments have a larger present value than the payments toward the unfunded accrued liability, there should be sufficient plan assets to pay all benefits from the trust. Based on those assumptions, the OPEB Plan's fiduciary net position was projected to be available to make all projected OPEB payments for current active and inactive employees. The long-term expected rate of return of 6.25 percent for Strategy 1 and 5.25 and 4.75 percent for Strategy 3 was applied to all periods of projected benefit payments to determine the total OPEB liability for the years ended December 31, 2022 and 2021, respectively.

The expected real rates of return by asset class used and presented as geometric means for December 31, 2022 are as follows:

<u>Asset Class</u>	<u>Target Allocation CERBT Strategy 1</u>	<u>Expected Real Rate of Return</u>
Global Equity	49.0%	4.56%
Long US Treasuries	5.1%	0.29%
Mortgage-Backed Securities	5.1%	0.49%
Investment Grade Corporates	3.9%	1.56%
High Yield	3.9%	3.00%
Sovereigns	5.1%	2.76%
TIPS	5.0%	(0.08%)
Commodities	3.0%	1.22%
REITS	20.0%	4.06%

<u>Asset Class</u>	<u>Target Allocation CERBT Strategy 3</u>	<u>Expected Real Rate of Return</u>
Global Equity	23.0%	4.56%
Long US Treasuries	11.2%	0.29%
Mortgage-Backed Securities	11.2%	0.49%
Investment Grade Corporates	8.7%	1.56%
High Yield	8.7%	3.00%
Sovereigns	11.2%	2.76%
TIPS	9.0%	(0.08%)
Commodities	3.0%	1.22%
REITS	14.0%	4.06%

The expected real rates of return by asset class used and presented as geometric means for December 31, 2021 are as follows:

<u>Asset Class</u>	<u>Target Allocation CERBT Strategy 1</u>	<u>Expected Real Rate of Return</u>
Global Equity	59%	4.56%
Fixed Income	25%	0.78%
TIPS	5%	(0.08%)
Commodities	3%	1.22%
REITS	8%	4.06%

<u>Asset Class</u>	<u>Target Allocation CERBT Strategy 3</u>	<u>Expected Real Rate of Return</u>
Global Equity	22%	4.56%
Fixed Income	49%	0.78%
TIPS	16%	(0.08%)
Commodities	5%	1.22%
REITS	8%	4.06%

Changes in the NOA or NOL. The following table shows the changes in NOA or NOL recognized over the year ended December 31, 2022:

	<u>Total OPEB Liability (a)</u>	<u>Increase (Decrease) Plan Fiduciary Net Position (b)</u>	<u>Net OPEB (Asset) Liability (a) – (b)</u>
	(thousands of dollars)		
Balances at January 1, 2022	\$ 392,519	\$ 450,051	\$ (57,532)
Changes recognized for the measurement period:			
Service cost	8,744	-0-	8,744
Interest	22,728	-0-	22,728
Changes in assumptions	(7,127)	-0-	(7,127)
Differences between expected and actual experience	(12,231)	-0-	(12,231)
Contributions - employer	-0-	860	(860)
Net investment income	-0-	(52,917)	52,917
Benefit payments	(24,169)	(24,169)	-0-
Administrative expense	-0-	(114)	114
Net changes	(12,055)	(76,340)	64,285
Balances at December 31, 2022	\$ 380,464	\$ 373,711	\$ 6,753

The following table shows the changes in in NOA or NOL recognized over the year ended December 31, 2021:

	<u>Total OPEB Liability (a)</u>	<u>Increase (Decrease) Plan Fiduciary Net Position (b)</u>	<u>Net OPEB (Asset) Liability (a) – (b)</u>
	(thousands of dollars)		
Balances at January 1, 2021	\$ 396,209	\$ 396,979	\$ (770)
Changes recognized for the measurement period:			
Service cost	8,426	-0-	8,426
Interest	25,008	-0-	25,008
Changes in assumptions	5,895	-0-	5,895
Differences between expected and actual experience	(18,938)	-0-	(18,938)
Contributions - employer	-0-	818	(818)
Net investment income	-0-	76,479	(76,479)
Benefit payments	(24,081)	(24,081)	-0-
Administrative expense	-0-	(144)	144
Net changes	(3,690)	53,072	(56,762)
Balances at December 31, 2021	\$ 392,519	\$ 450,051	\$ (57,532)

Sensitivity of the NOA or NOL to Changes in the Discount Rate. The following presents the NOA or NOL of SMUD as of the measurement date, calculated using the current discount rate, as well as what the NOA or NOL would be if it were calculated using a discount rate that is 1 percentage-point lower or 1 percentage-point higher than the current discount rate:

	<u>1% Decrease (4.88%)</u>	<u>Current Discount Rate (5.88%)</u>	<u>1% Increase (6.88%)</u>
		(thousands of dollars)	
NOL/(NOA), December 31, 2022	\$ 52,612	\$ 6,753	\$ (31,557)
	<u>1% Decrease (4.84%)</u>	<u>Current Discount Rate (5.84%)</u>	<u>1% Increase (6.84%)</u>
		(thousands of dollars)	
(NOA), December 31, 2021	\$ (9,249)	\$ (57,532)	\$ (97,772)

Sensitivity of the NOA or NOL to Changes in the Healthcare Cost Trend Rates. The following presents the NOA or NOL of SMUD as of the measurement date, calculated using the current healthcare cost trend rate, as well as what the NOA or NOL would be if it were calculated using a healthcare cost trend rate that is 1 percentage-point lower or 1 percentage-point higher than the current healthcare trend rate (see assumptions above for healthcare trend rate):

	<u>1% Decrease</u>	<u>Current Healthcare Trend Rate</u>	<u>1% Increase</u>
		(thousands of dollars)	
(NOA)/ NOL, December 31, 2022	\$ (35,780)	\$ 6,753	\$ 58,812
(NOA), December 31, 2021	\$ (102,004)	\$ (57,532)	\$ (3,060)

OPEB Plan Fiduciary Net Position. Detailed information about the OPEB Plan's fiduciary net position is available in the separately issued OPEB Plan's report. This report can be obtained at the PERS' website at www.calpers.ca.gov.

OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB. For the years ended December 31, 2022 and 2021, SMUD recognized a credit to OPEB expense of \$8.2 million and \$18.8 million, respectively.

At December 31, 2022 and 2021, SMUD reported deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

	<u>December 31,</u>	
	<u>2022</u>	<u>2021</u>
	(thousands of dollars)	
Deferred outflows of resources:		
Changes of assumptions	\$ 8,919	\$ 13,132
Differences between projected and actual earnings on OPEB plan investments	32,477	-0-
Employer's contributions to the OPEB Plan subsequent to the measurement of total OPEB liability	<u>12,278</u>	<u>11,981</u>
Total deferred outflows of resources	<u>\$ 53,674</u>	<u>\$ 25,113</u>
Deferred inflows of resources:		
Changes of assumptions	\$ 11,428	\$ 7,504
Differences between expected and actual experience	38,410	48,300
Differences between projected and actual earnings on OPEB plan investments	<u>-0-</u>	<u>39,098</u>
Total deferred inflows of resources	<u>\$ 49,838</u>	<u>\$ 94,902</u>

Amounts reported as deferred outflows of resources and deferred inflows of resources related to OPEB will be subject to regulatory accounting as follows (see Note 8):

Year ended December 31:	
2023	\$ (5,788)
2024	(4,849)
2025	(5,472)
2026	10,337
2027	(2,670)
Thereafter	-0-

NOTE 16. INSURANCE PROGRAMS AND CLAIMS

SMUD is exposed to various risks of loss related to torts, theft of and destruction to assets, errors and omissions, cyber activities, natural disasters, employee injuries and illnesses, and other exposures. SMUD carries commercial insurance coverage to cover most claims in excess of specific dollar thresholds, ranging from \$5.0 thousand to \$5.0 million per claim. General liability limits are \$140.0 million, excess of a \$5.0 million self-insured retention. As of December 31, 2022, wildfire liability limits are \$255.0 million (\$192.5 million commercial insurance plus \$62.5 million self-insured retention). As of December 31, 2021, SMUD had \$176.0 million commercial coverage plus \$74.0 million self-insured retention within a \$250.0 million total program value. SMUD's property insurance coverage is based on the replacement value of the asset. There have been no significant reductions in insurance coverage. In 2022, 2021, and 2020, the insurance policies in effect have adequately covered all settlements of the claims against SMUD. No claims have exceeded the limits of property or liability insurance in any of the past three years. In 2022, SMUD filed a partial claim under business interruption insurance for the Cosumnes Power Plant outage and received a \$50.0 million advance on that claim in 2022.

The claims liability is included as a component of Self Insurance and Other in the Statements of Net Position.

SMUD's total claims liability, comprising claims received and claims incurred but not reported, at December 31, 2022, 2021 and 2020 is presented below:

	2022	2021	2020
		(thousands of dollars)	
Workers' compensation claims	\$ 7,554	\$ 8,666	\$ 9,166
General and auto claims	3,178	3,596	3,766
Short and long-term disability claims	58	47	92
Claims liability	<u>\$ 10,790</u>	<u>\$ 12,309</u>	<u>\$ 13,024</u>

Changes in SMUD's total claims liability during 2022, 2021 and 2020 are presented below:

	2022	2021	2020
		(thousands of dollars)	
Claims liability, beginning of year	\$ 12,309	\$ 13,024	\$ 14,073
Add: provision for claims, current year	1,556	1,450	1,419
(Decrease) increase in provision for claims in prior years	1,826	(122)	(8)
Less: payments on claims attributable to current and prior years	(4,901)	(2,043)	(2,460)
Claims liability, end of year	<u>\$ 10,790</u>	<u>\$ 12,309</u>	<u>\$ 13,024</u>

NOTE 17. COMMITMENTS

Electric Power and Gas Supply Purchase Agreements. SMUD has numerous power purchase agreements with other power producers to purchase capacity, transmission, and associated energy to supply a portion of its load requirements. SMUD has minimum take-or-pay commitments for energy on some contracts. SMUD has numerous long-term natural gas supply, gas transportation and gas storage agreements with Canadian and U.S. companies to supply a portion of the consumption needs of SMUD's natural gas-fired power plants.

At December 31, 2022, the approximate minimum obligations for the "take-or-pay" contracts over the next five years are as follows:

	Electric	Gas
	(thousands of dollars)	
2023	\$ 71,863	\$ 10,238
2024	58,905	7,588
2025	46,634	5,633
2026	47,111	4,234
2027	47,489	4,273

At December 31, 2022, the approximate minimum obligations for the remaining contracts, assuming the energy or gas is delivered over the next five years, are as follows:

	Electric	Gas
	(thousands of dollars)	
2023	\$ 289,097	\$ 215,951
2024	306,551	135,011
2025	294,714	108,226
2026	277,785	48,798
2027	219,986	44,590

Contractual Commitments beyond 2027 - Electricity. Several of SMUD's purchase power and transmission contracts extend beyond the five-year summary presented above. These contracts expire between 2028 and 2054 and provide for power under various terms and conditions. SMUD estimates its annual minimum commitments under the take-or-pay contracts ranges between \$48.0 million in 2028 and \$21.0 million in 2054. SMUD estimates its annual minimum commitments under the remaining contracts, assuming the energy is delivered, ranges between \$221.3 million in 2028 and \$29.0 million in 2050. SMUD's largest purchase power source (in volume) is the Calpine Sutter contract, where SMUD has contracted ownership of 258 MW's of thermal generation capacity. The Calpine Sutter contract expires on December 31, 2026.

Contractual Commitments beyond 2027 - Gas. Several of SMUD's natural gas supply, gas transportation and gas storage contracts extend beyond the five-year summary presented above. These contracts expire between 2028 and 2049 and provide for transportation and storage under various terms and conditions. SMUD estimates its annual minimum commitments under the take-or-pay contracts ranges between \$4.3 million in 2028 and \$2.7 million in 2049. SMUD estimates its annual minimum commitments under the remaining contracts, assuming the gas is delivered, ranges between \$40.7 million in 2028 and \$11.7 million in 2049.

Gas Price Swap Agreements. SMUD has entered into numerous variable-to-fixed rate swaps with notional amounts totaling 99,222,500 Dths for the purpose of fixing the rate on SMUD's natural gas purchases for its gas-fueled power plants and gas indexed electric contracts. These gas price swap agreements result in SMUD paying fixed rates ranging from \$2.319 to \$4.161 per Dth. The swap agreements expire periodically from January 2023 through December 2026.

Gas Transport Capacity Agreements. SMUD has numerous long-term natural gas transport capacity agreements with Canadian and U.S. companies to transport natural gas to SMUD's natural gas-fired power plants from the supply basins in

Alberta to the California-Oregon border and from supply basins in the southwest and Rocky Mountains to the Southern California border. These gas transport capacity agreements provide for the delivery of gas into SMUD-owned pipeline capacity within California. The gas transport capacity agreements provide SMUD with 53,265 Dth per day (Dth/d) of natural gas pipeline capacity from the North, including the Canadian Basins through 2023 and 39,710 Dth/d from the Southwest or Rocky Mountain Basins through at least 2023.

Gas Storage Agreements. SMUD also has an agreement for the storage of up to 2.0 million Dth of natural gas at regional facilities through March 2023, dropping to 1.0 million Dth through March 2026.

Hydro License Agreements. SMUD has a hydro license for a term of 50 years effective July 1, 2014 (see Note 2). SMUD entered into four contracts with government agencies whereby SMUD makes annual payments to them for various services for the term of the license. Each contract is adjusted annually by an inflation index. The present value of the sum of the annual payments is \$58.5 million at December 31, 2022.

Construction Contracts. SMUD has entered into various construction contracts for the construction of a new substation, control building, and improvements to the Union Valley bike trail in the UARP. As of December 31, 2022, the not-to-exceed price for these contracts totaled \$235.8 million. The remaining contract obligations for these contracts as of December 31, 2022 was \$191.1 million.

NOTE 18. CLAIMS AND CONTINGENCIES

FERC Administrative Proceedings. SMUD is involved in a number of FERC administrative proceedings related to the operation of wholesale energy markets, regional transmission planning, gas transportation, and the development of NERC reliability standards. While these proceedings are complex and numerous, they generally fall into the following categories: (i) filings initiated by the California Independent System Operator Corporation (CAISO) (or other market participants) to adopt/modify the CAISO Tariff and/or establish market design and behavior rules; (ii) filings initiated by existing transmission owners (i.e., PG&E and the other Investor Owned Utilities) to pass through costs to their existing wholesale transmission customers; (iii) filings initiated by FERC on market participants to establish market design and behavior rules or to complain about or investigate market behavior by certain market participants; (iv) filings initiated by transmission owners under their transmission owner tariffs for the purpose of establishing a regional transmission planning process; (v) filings initiated by providers of firm gas transportation services under the Natural Gas Act; and (vi) filings initiated by NERC to develop reliability standards applicable to owners, users, and operators of the bulk electric system. In addition, SMUD is an active participant in other FERC administrative proceedings, including those related to reliability and cybersecurity standards, variable resource integration, and transmission planning and cost allocation. SMUD's management believes that the ultimate resolution of these matters will not have a material adverse effect on SMUD's financial position, liquidity or results of operations.

Environmental Matters. SMUD was one of many potentially responsible parties that had been named in a number of actions relating to environmental claims and/or complaints. SMUD has resolved these environmental claims and/or complaints and entered into settlement agreements and/or consent orders. These settlement agreements and consent orders have statutory reopener provisions which allow regulatory agencies to seek additional funds for environmental remediation under certain limited circumstances. While SMUD believes it is unlikely that any of the prior settlements or consent orders will be reopened, the possibility exists. If any of the settlements or consent orders were to be reopened, SMUD management does not believe that the outcome will have a material adverse effect on SMUD's financial position, liquidity or results of operations.

Other Matters. Currently, SMUD is party to various claims, legal actions and complaints relating to its operations, including but not limited to: property damage and personal injury, contract disputes, torts, and employment matters. SMUD's management believes that the ultimate resolution of these matters will not have a material adverse effect on SMUD's financial position, liquidity or results of operations.

NOTE 19. SUBSEQUENT EVENTS

SMUD evaluated subsequent events through February 24, 2023, the date that the financial statements were available to be issued, for events requiring recording or disclosure in the financial statements. In January 2023, SMUD experienced a series of winter storms that brought heavy rains and high winds causing significant damage to SMUD's grid and widespread outages for SMUD's customers. By the time the storm response was complete, SMUD had experienced the largest mobilization of personnel and restoration crews in its history. SMUD incurred costs related to removing downed trees, restoring power from downed poles and broken lines, replenishing inventory, communicating with and providing assistance to customers, maintaining IT systems, and coordinating with local emergency agencies. SMUD is pursuing claims with Federal and State agencies.

**Required Supplementary Information – Unaudited
For the Years Ended December 31, 2022 and 2021**

**Schedule of Changes in Net Pension Liability and Related Ratios
During the Measurement Period - PERS Plan**

	December 31,								
	2022	2021	2020	2019	2018	2017	2016	2015	2014
	(thousands of dollars)								
Total pension liability:									
Service cost	\$ 41,885	\$ 38,900	\$ 38,901	\$ 38,061	\$ 36,029	\$ 35,040	\$ 29,044	\$ 27,991	\$ 28,170
Interest	167,926	168,984	164,044	157,976	151,354	150,119	147,497	142,468	137,546
Changes of assumptions	26,275	-0-	-0-	-0-	(61,585)	123,043	-0-	(34,228)	-0-
Differences between expected and actual experience	(31,370)	(5,875)	9,981	18,877	1,293	(29,276)	(8,357)	(10,613)	-0-
Benefit payments, including refunds of employee contributions	(137,603)	(130,376)	(125,581)	(117,548)	(111,763)	(104,428)	(99,155)	(94,636)	(90,175)
Net change in total pension liability	67,113	71,633	87,345	97,366	15,328	174,498	69,029	30,982	75,541
Total pension liability, beginning of year	2,486,667	2,415,034	2,327,689	2,230,323	2,214,995	2,040,497	1,971,468	1,940,486	1,864,945
Total pension liability, end of year (a)	<u>\$ 2,553,780</u>	<u>\$ 2,486,667</u>	<u>\$ 2,415,034</u>	<u>\$ 2,327,689</u>	<u>\$ 2,230,323</u>	<u>\$ 2,214,995</u>	<u>\$ 2,040,497</u>	<u>\$ 1,971,468</u>	<u>\$ 1,940,486</u>
Plan fiduciary net position:									
Contributions - employer	\$ 114,476	\$ 229,440	\$ 98,344	\$ 69,119	\$ 90,141	\$ 32,389	\$ 27,645	\$ 22,499	\$ 21,511
Contributions - employee	18,096	17,552	18,095	17,411	16,832	15,845	15,271	14,503	15,346
Net investment income	(189,479)	454,518	92,534	115,867	138,739	171,596	8,316	35,797	245,659
Benefit payments, including refunds of employee contributions	(137,603)	(130,376)	(125,581)	(117,548)	(111,763)	(104,428)	(99,155)	(94,636)	(90,175)
Administrative expense	(1,566)	(1,943)	(2,628)	(1,270)	(7,474)	(2,275)	(969)	(1,795)	(2,028)
Other miscellaneous income/(expense)	-0-	-0-	-0-	4	(4)	-0-	34	(25)	-0-
Net change in plan fiduciary net position	(196,076)	569,191	80,764	83,583	126,471	113,127	(48,858)	(23,657)	190,313
Plan fiduciary net position, beginning of year	2,514,405	1,945,214	1,864,450	1,780,867	1,654,396	1,541,269	1,590,127	1,613,784	1,423,471
Plan fiduciary net position, end of year (b)	<u>\$ 2,318,329</u>	<u>\$ 2,514,405</u>	<u>\$ 1,945,214</u>	<u>\$ 1,864,450</u>	<u>\$ 1,780,867</u>	<u>\$ 1,654,396</u>	<u>\$ 1,541,269</u>	<u>\$ 1,590,127</u>	<u>\$ 1,613,784</u>
Net pension liability/(asset), ending (a) - (b)	<u>\$ 235,451</u>	<u>\$ (27,738)</u>	<u>\$ 469,820</u>	<u>\$ 463,239</u>	<u>\$ 449,456</u>	<u>\$ 560,599</u>	<u>\$ 499,228</u>	<u>\$ 381,341</u>	<u>\$ 326,702</u>
Plan fiduciary net position as a percentage of the total pension liability	90.8%	101.1%	80.5%	80.1%	79.8%	74.7%	75.5%	80.7%	83.2%
Covered payroll	\$ 256,965	\$ 257,613	\$ 254,756	\$ 247,759	\$ 235,902	\$ 223,685	\$ 207,119	\$ 197,481	\$ 191,439
Net pension liability/(asset) as a percentage of covered payroll	91.6%	-10.8%	184.4%	187.0%	190.5%	250.6%	241.0%	193.1%	170.7%

PERS Plan. The schedule of changes in NPL/NPA and related ratios is presented above for the years for which SMUD has available data. SMUD will add to this schedule each year and when it reaches 10 years it will contain the last 10 years data which will then be updated each year going forward.

Notes to Schedule:

Benefit Changes: The figures above do not include any liability impact that may have resulted from plan changes which occurred after the June 30, 2021 valuation date. This applies for voluntary benefit changes as well as any offers of two years additional service credit.

Changes in Assumptions: Effective with the June 30, 2021 valuation date (2022 measurement date), the accounting discount rate was reduced from 7.15% to 6.90%. In determining the long-term expected rate of return, CalPERS took into account long-term market return expectations as well as the expected pension fund cash flows. Projected returns for all asset classes are estimated, combined with risk estimates, and are used to project compound (geometric) returns over the long term. The discount rate used to discount liabilities was informed by the long-term projected portfolio return. In addition, demographic assumptions and the inflation rate assumption were changed in accordance with the 2021 CalPERS Experience Study and Review of Actuarial Assumptions. The accounting discount rate was 7.15% for measurement dates 2017 through 2021, 7.65% for measurement dates 2015 through 2016, and 7.50% for measurement date 2014.

Schedule of Plan Contributions for Pension – PERS Plan

	December 31,								
	2022	2021	2020	2019	2018	2017	2016	2015	2014
	(thousands of dollars)								
Actuarially determined contribution	\$ 44,599	\$ 54,315	\$ 52,276	\$ 49,119	\$ 40,142	\$ 32,389	\$ 27,645	\$ 22,499	\$ 21,511
Contributions in relation to the actuarially determined contribution	(114,476)	(229,440)	(98,344)	(69,119)	(90,142)	(32,389)	(27,645)	(22,499)	(21,511)
Contribution excess	<u>\$ (69,877)</u>	<u>\$ (175,125)</u>	<u>\$ (46,068)</u>	<u>\$ (20,000)</u>	<u>\$ (50,000)</u>	<u>\$ -0-</u>	<u>\$ -0-</u>	<u>\$ -0-</u>	<u>\$ -0-</u>
Covered payroll	\$ 256,965	\$ 257,613	\$ 254,756	\$ 247,759	\$ 235,902	\$ 223,685	\$ 207,119	\$ 197,481	\$ 191,439
Contributions as a percentage of covered payroll	44.5%	89.1%	38.6%	27.9%	38.2%	14.5%	13.4%	11.4%	11.2%

PERS Plan. The schedule of pension contributions is presented above for the years for which SMUD has available data. SMUD will add to this schedule each year and when it reaches 10 years it will contain the last 10 years data which will then be updated each year going forward.

Notes to Schedule

The actuarial methods and assumptions used to set the actuarially determined contributions for the year ended December 31, 2022 was derived from the June 30, 2019 funding valuation report.

Actuarial cost method	Entry age Actuarial Cost Method
Amortization method/period	For details, see June 30, 2019 Funding Valuation Report
Asset valuation method	Fair value of assets. For details, see June 30, 2019 Funding Valuation Report
Inflation	2.5%
Salary increases	Varies by entry age and service
Payroll growth	2.75%
Investment rate of return	7.00% Net of pension plan investment and administrative expenses; includes inflation
Retirement age	The probabilities of retirement are based on the 2017 PERS Experience Study for the period from 1997 to 2015
Mortality	The probabilities of mortality are based on the 2017 PERS Experience Study for the period from 1997 to 2015. Pre-retirement and post-retirement mortality rates include 15 years of projected mortality improvement using Scale MP-2016 published by the Society of Actuaries.

In 2021, the investment rate of return was 7.00%. In 2020, the investment rate of return was 7.25%. Prior to 2020, the probabilities of mortality are based on the 2014 PERS Experience Study for the period from 1997 to 2011. Pre-retirement and post-retirement mortality rates include 20 years of projected mortality improvement using Scale BB published by the Society of Actuaries. Prior to 2017, the retirement age and mortality assumptions were based on the 2010 PERS Experience Study for the period from 1997 to 2007. In addition, the mortality assumption for pre-retirement and post-retirement rates included 5 years of projected mortality improvement using Scale AA published by the Society of Actuaries.

Schedule of Changes in Net OPEB Asset or Liability and Related Ratios During the Measurement Period

OPEB. The schedule of changes in NOA or NOL and related ratios is presented above for the years for which SMUD has available data. SMUD will add to this schedule each year and when it reaches 10 years it will contain the last 10 years data which will then be updated each year going forward.

	December 31,					
	2022	2021	2020	2019	2018	2017
	(thousands of dollars)					
Total OPEB liability:						
Service cost	\$ 8,744	\$ 8,426	\$ 8,903	\$ 8,946	\$ 9,263	\$ 8,993
Interest on total OPEB liability	22,728	25,008	26,653	26,766	29,656	28,676
Changes of assumptions	(7,127)	5,895	(11,453)	15,332	3,105	-0-
Differences between expected and actual experience	(12,231)	(18,938)	(23,529)	(6,885)	(59,921)	-0-
Benefit payments	(24,169)	(24,081)	(23,848)	(24,521)	(24,672)	(22,192)
Net change in total OPEB liability	(12,055)	(3,690)	(23,274)	19,638	(42,569)	15,477
Total OPEB liability, beginning of year	392,519	396,209	419,483	399,845	442,414	426,937
Total OPEB liability, end of year (a)	<u>\$ 380,464</u>	<u>\$ 392,519</u>	<u>\$ 396,209</u>	<u>\$ 419,483</u>	<u>\$ 399,845</u>	<u>\$ 442,414</u>
Plan fiduciary net position:						
Contributions - employer	\$ 860	\$ 818	\$ 13,299	\$ 13,963	\$ 34,243	\$ 114,573
Net investment income	(52,917)	76,479	20,447	20,132	27,295	24,104
Benefit payments	(24,169)	(24,081)	(23,848)	(24,521)	(24,672)	(22,192)
Administrative expense	(114)	(144)	(191)	(81)	(635)	(123)
Net change in plan fiduciary net position	(76,340)	53,072	9,707	9,493	36,231	116,362
Plan fiduciary net position, beginning of year	450,051	396,979	387,272	377,779	341,548	225,186
Plan fiduciary net position, end of year (b)	<u>\$ 373,711</u>	<u>\$ 450,051</u>	<u>\$ 396,979</u>	<u>\$ 387,272</u>	<u>\$ 377,779</u>	<u>\$ 341,548</u>
Net OPEB (asset) or liability, ending (a) - (b)	<u>\$ 6,753</u>	<u>\$ (57,532)</u>	<u>\$ (770)</u>	<u>\$ 32,211</u>	<u>\$ 22,066</u>	<u>\$ 100,866</u>
Plan fiduciary net position as a percentage of the total OPEB liability	98.2%	114.7%	100.2%	92.3%	94.5%	77.2%
Covered payroll	\$ 301,746	\$ 289,014	\$ 287,001	\$ 282,993	\$ 269,753	\$ 252,211
Net OPEB (asset) or liability as a percentage of covered payroll	2.2%	-19.9%	-0.3%	11.4%	8.2%	40.0%

Notes to Schedule

Benefit Changes: There were no changes to benefits.

Changes in Assumptions: In 2022, the long-term rate of return for Strategy 3 was updated based on newer target asset allocation, the discount rate was updated based on crossover test, the demographic assumptions were updated to CalPERS 2000-2019 Experience Study, and the mortality improvement scale was updated to Scale MP-2021. In 2021, the discount rate was updated due to weighting of Strategy 1 and Strategy 3 and updated capital market assumptions, the mortality improvement scale was updated to Scale MP-2020, the inflation rate was changed to 2.5% and the implied subsidy was removed for Medicare Advantage Plans. In 2020, the discount rate reflected the split of assets between Strategy 1 and Strategy 3, the mortality improvement scale was updated to Scale MP-2019, and the Kaiser Medicare trend rates were updated.

Schedule of Plan Contributions for OPEB

OPEB Plan. The schedule of OPEB contributions is presented below for the years for which SMUD has available data. SMUD will add to this schedule each year and when it reaches 10 years it will contain the last 10 years data which will then be updated each year going forward.

	2022	2021	December 31, 2020	2019	2018	2017
			(thousands of dollars)			
Actuarially determined contribution	\$ 5,425	\$ 8,661	\$ 12,201	\$ 10,710	\$ 15,366	\$ 16,472
Contributions in relation to the actuarially determined contribution	(1,157)	(853)	(13,233)	(13,155)	(35,128)	(116,181)
Contribution deficiency (excess)	<u>\$ 4,268</u>	<u>\$ 7,808</u>	<u>\$ (1,032)</u>	<u>\$ (2,445)</u>	<u>\$ (19,762)</u>	<u>\$ (99,709)</u>
Covered payroll	\$ 318,094	\$ 285,425	\$ 289,552	\$ 286,835	\$ 277,193	\$ 260,210
Contributions as a percentage of covered payroll	0.4%	0.3%	4.6%	4.6%	12.7%	44.6%

Notes to Schedule

The actuarial methods and assumptions used to set the actuarially determined contributions for the year ended December 31, 2022 were derived from the June 30, 2021 funding valuation report.

Actuarial cost method	Entry age normal
Amortization method	Level percent of pay
Amortization period	24-year fixed period for 2022
Asset valuation method	Market value of assets
Discount rate	6.25% for all actives and retirements after 6/30/2018, 5.0% for all retirements before 6/30/2018
Inflation	2.5%
Medical trend	Non-Medicare: 6.5% for 2023, decreasing to an ultimate rate of 3.75% in 2076 Medicare (Non-Kaiser): 5.65% for 2023, decreasing to an ultimate rate of 3.75% in 2076 Medicare (Kaiser): 4.6% for 2023, decreasing to an ultimate rate of 3.75% in 2076
Mortality	PERS 1997-2015 experience study
Mortality improvement	Post-retirement mortality projected fully generational with Scale MP-20

In 2022, the amortization period was for a 24-year fixed period. Mortality assumption used PERS 1997-2015 experience study. The mortality improvement projected fully generational with Scale MP-20. In 2021, the amortization period was for a 25-year fixed period. Mortality assumption used PERS 1997-2015 experience study. The mortality improvement projected fully generational with Scale MP-19. In 2020, the amortization period was for a 26-year fixed period. Mortality assumption used PERS 1997-2015 experience study. The mortality improvement projected fully generational with Scale MP-18. In 2019, the amortization period was for a 27-year fixed period. Mortality assumption used PERS 1997-2015 experience study. The mortality improvement projected fully generational with Scale MP-17. In 2018, the amortization period was for a 28-year fixed period. Mortality assumption used PERS 1997-2011 experience study. The mortality improvement projected fully generational with Scale MP-16. In 2017, the amortization period was for a 29-year fixed period. The inflation rate was 3.0% and the discount rate was 7.25%. The mortality projected fully generational with Scale MP-14, modified to converge in 2022.

Northern California Energy Authority

Financial Statements
and Independent Auditors' Report
December 31, 2022 and 2021

NORTHERN CALIFORNIA ENERGY AUTHORITY
TABLE OF CONTENTS

Independent Auditors' Report	1
Required Supplementary Information	
Management's Discussion and Analysis (Unaudited)	3
Basic Financial Statements	
Statements of Net Position	7
Statements of Revenues, Expenses and Changes in Net Position	8
Statements of Cash Flows	9
Notes to Financial Statements	
Note 1. Organization and Operations	10
Note 2. Summary of Significant Accounting Policies	11
Note 3. Cash, Cash Equivalents, and Investments	13
Note 4. Prepaid Gas Supply	14
Note 5. Long-term Debt	15
Note 6. Commitments	17
Note 7. Contingencies	17

Independent Auditors' Report

To the Board of Directors of
Northern California Energy Authority

Opinion

We have audited the accompanying financial statements of the Northern California Energy Authority, a component unit of the Sacramento Municipal Utility District, as of and for the years ended December 31, 2022 and 2021, and the related notes to the financial statements, which collectively comprise the Northern California Energy Authority's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Northern California Energy Authority as of December 31, 2022 and 2021, and the changes in financial position and cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Northern California Energy Authority and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America; and for the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Northern California Energy Authority's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Northern California Energy Authority's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Northern California Energy Authority's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings and certain internal control-related matters that we identified during the audit.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the required supplementary information, as listed in the table of contents be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

A handwritten signature in black ink that reads "Baker Tilly US, LLP". The signature is written in a cursive, flowing style.

Madison, Wisconsin
February 24, 2023

NORTHERN CALIFORNIA ENERGY AUTHORITY
MANAGEMENT'S DISCUSSION AND ANALYSIS
(Unaudited)

Using this Financial Report

This annual financial report for Northern California Energy Authority (Agency) consists of management's discussion and analysis and the financial statements, including notes to the financial statements. The basic Financial Statements consist of the Statements of Net Position, the Statements of Revenues, Expenses and Changes in Net Position and the Statements of Cash Flows.

The Agency's accounting records are maintained in accordance with Generally Accepted Accounting Principles for proprietary funds as prescribed by the Governmental Accounting Standards Board. The Agency's accounting records generally follow the Uniform System of Accounts for Public Utilities and Licensees prescribed by the Federal Energy Regulatory Commission.

Overview of the Financial Statements

The following discussion and analysis of the financial performance of the Agency provides an overview of the financial activities for the years ended December 31, 2022 and 2021. This discussion and analysis should be read in conjunction with the Agency's financial statements and accompanying notes, which follow this section.

The Statements of Net Position provides information about the nature and amount of resources and obligations at a specific point in time.

The Statements of Revenues, Expenses and Changes in Net Position reports all of the Agency's revenues and expenses during the period indicated.

The Statements of Cash Flows reports the cash provided and used by operating activities, as well as other cash sources such as investment income and debt financing, and other cash uses such as payments for debt service.

The Notes to Financial Statements provide additional detailed information to support the financial statements.

Organization and Nature of Operations

The Agency is a joint powers authority (JPA) formed by the Sacramento Municipal Utility District (SMUD) and the Sacramento Municipal Utility District Financing Authority (SFA) in 2018. SFA is a JPA formed by SMUD and the Modesto Irrigation District. The Agency was formed for the purpose of prepaying for a fixed quantity supply of natural gas and electricity to be delivered over a thirty-year period by J. Aron & Company LLC (J. Aron) under a Prepaid Commodity Sales Agreement between the Agency and J. Aron. The Agency then sells the natural gas and electricity to SMUD. The Agency issued bonds in December 2018 and commenced gas sales in June 2019.

SMUD purchases all the natural gas and electricity delivered to the Agency pursuant to the Commodity Supply Contract between SMUD and the Agency. The Agency has no employees and SMUD contributes to the Agency the actual costs of providing general and administrative services.

The Agency's Commission is comprised of SMUD's Board of Directors. The Agency is a separate legal entity; however, due to the extent of its operational and financial relationship with SMUD, it is included in the financial statements of SMUD.

FINANCIAL POSITION

The following table summarizes the financial position as of December 31 (in thousands).

CONDENSED STATEMENT OF NET POSITION

	<u>2022</u>	<u>2021</u>	<u>2020</u>
Assets			
Restricted assets	\$ -0-	\$ -0-	\$ 90
Current assets	36,148	28,879	27,857
Noncurrent assets	<u>524,549</u>	<u>528,808</u>	<u>532,525</u>
Total assets	<u>\$ 560,697</u>	<u>\$ 557,687</u>	<u>\$ 560,472</u>
Liabilities			
Long-term debt - net	\$ 544,562	\$ 551,815	\$ 556,794
Current liabilities	20,537	12,276	10,876
Noncurrent liabilities	<u>208</u>	<u>161</u>	<u>121</u>
Total liabilities	<u>565,307</u>	<u>564,252</u>	<u>567,791</u>
Net position			
Restricted	3,484	8,697	10,829
Unrestricted	<u>(8,094)</u>	<u>(15,262)</u>	<u>(18,148)</u>
Total net position	<u>(4,610)</u>	<u>(6,565)</u>	<u>(7,319)</u>
Total liabilities and net position	<u>\$ 560,697</u>	<u>\$ 557,687</u>	<u>\$ 560,472</u>

TOTAL ASSETS

Total assets in 2022 increased \$3.0 million or 0.5% over 2021, primarily due to the following:

- A decrease of \$8.3 million in restricted cash and cash equivalents and an increase of \$9.1 million in restricted investments primarily due to the timing of transfer of funds from investments to cash equivalents (money market funds) by the trustee for the annual debt payment due January 2023.
- An increase of \$5.9 million in gas sales to Member receivable primarily due to higher gas price index.
- A decrease of \$3.7 million in prepaid gas supply due to amortization for gas delivered in 2022.

Total assets in 2021 decreased \$2.8 million or 0.5% over 2020, primarily due to an increase of \$1.9 million in gas sales to Member receivable due to higher gas prices index and a decrease of \$3.5 million in prepaid gas supply due to amortization for gas delivered in 2021.

TOTAL LIABILITIES & NET POSITION

Total liabilities in 2022 increased \$1.1 million or 0.2% over 2021, primarily due to the following:

- A decrease of \$7.3 million in long-term debt - net due to amortization of bond premium.
- An increase of \$2.3 million in long-term debt due within one year as a result of first bond principal payment due in 2023.
- An increase of \$5.9 million in accrued interest and other liabilities primarily due to increase in net gas price swap resulting in increase in net gas swap settlement due to J. Aron.

Net position in 2022 increased \$2.0 million or 29.8% over 2021, primarily due to higher operating income partially offset by \$0.9 million distribution to Member.

Total liabilities in 2021 decreased \$3.5 million or 0.6% over 2020, primarily due to a decrease of \$5.0 million in long-term debt - net due to amortization of bond premium and an increase of \$1.4 million in accrued interest and other liabilities due to increase in net gas price swap resulting in increase in net gas swap settlement due to J. Aron.

Net position in 2021 increased \$0.8 million or 10.3% over 2020, primarily due to higher operating income partially offset by \$0.8 million distribution to Member.

RESULTS OF OPERATIONS

The following table summarizes the operating results for the years ended December 31 (in thousands).

CONDENSED STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

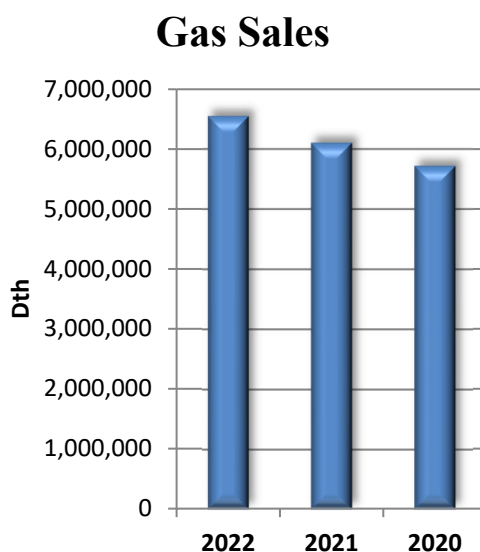
	2022	2021	2020
Operating revenues	\$ 22,955	\$ 21,406	\$ 20,053
Operating expenses	(3,845)	(3,573)	(3,366)
Operating income	19,110	17,833	16,687
Interest income - net	466	458	530
Interest on debt	(16,820)	(16,773)	(16,727)
Change in net position before distributions and contributions	2,756	1,518	490
Distributions to Member	(941)	(843)	(1,090)
Member contributions	140	79	127
Change in net position	1,955	754	(473)
Net position - beginning of year	(6,565)	(7,319)	(6,846)
Net position - end of year	<u>\$ (4,610)</u>	<u>\$ (6,565)</u>	<u>\$ (7,319)</u>

OPERATING REVENUES

Total operating revenues were \$23.0 million for 2022, an increase of \$1.5 million or 7.2% over 2021. The gas dekatherm (Dth) sales increased 7.2% compared to 2021. Gas sales to Member increased \$23.0 million as a result of higher gas price index, offset by a decrease of \$21.5 million in gas swap settlement - net due to the lower net swap price.

Total operating revenues were \$21.4 million for 2021, an increase of \$1.4 million or 6.7% over 2020. The gas Dth sales increased 6.7% compared to 2020. Gas sales to Member increased \$13.4 million as a result of higher gas price index, offset by a decrease of \$12.0 million in gas swap settlement - net due to lower net swap price.

The following chart shows gas sales in 2022, 2021 and 2020.



OPERATING EXPENSES

Total operating expenses were \$3.8 million for 2022, an increase of \$0.3 million or 7.6% over 2021, primarily due to an increase of \$0.3 million in amortization of the prepaid gas supply.

Total operating expenses were \$3.6 million for 2021, an increase of \$0.2 million or 6.1% over 2020, primarily due to an increase of \$0.2 million in amortization of the prepaid gas supply.

Requests for Information

For more information about the Northern California Energy Authority, visit our website at www.smud.org or contact us at customerservices@smud.org.

NORTHERN CALIFORNIA ENERGY AUTHORITY
STATEMENTS OF NET POSITION

	December 31,	
	2022	2021
ASSETS		
RESTRICTED ASSETS		
Debt service funds	\$ 18,898,077	\$ 18,134,664
Other restricted funds	3,010,832	3,000,066
Less current portion	(21,908,909)	(21,134,730)
Total restricted assets	-0-	-0-
CURRENT ASSETS		
Restricted cash and cash equivalents	2,558,586	10,876,505
Restricted investments	19,350,323	10,258,225
Receivables:		
Gas sales to Member	9,951,000	4,010,160
Prepaid gas supply	4,258,793	3,716,894
Prepayments	29,481	17,500
Total current assets	36,148,183	28,879,284
NONCURRENT ASSETS		
Prepaid gas supply	524,549,289	528,808,082
Total noncurrent assets	524,549,289	528,808,082
TOTAL ASSETS	\$ 560,697,472	\$ 557,687,366
LIABILITIES AND NET POSITION		
LONG-TERM DEBT - net	\$ 544,562,185	\$ 551,815,040
CURRENT LIABILITIES		
Long-term debt due within one year	2,320,000	-0-
Accrued interest and other	18,217,473	12,276,633
Total current liabilities	20,537,473	12,276,633
NONCURRENT LIABILITIES		
Arbitrage rebate liability	207,739	160,674
Total noncurrent liabilities	207,739	160,674
TOTAL LIABILITIES	565,307,397	564,252,347
NET POSITION		
Restricted	3,483,697	8,697,423
Unrestricted	(8,093,622)	(15,262,404)
TOTAL NET POSITION	(4,609,925)	(6,564,981)
COMMITMENTS AND CONTINGENCIES (Notes 6 and 7)		
TOTAL LIABILITIES AND NET POSITION	\$ 560,697,472	\$ 557,687,366

The accompanying notes are an integral part of these financial statements.

NORTHERN CALIFORNIA ENERGY AUTHORITY
STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

	Years Ended December 31,	
	2022	2021
OPERATING REVENUES		
Gas sales to Member	\$ 48,370,760	\$ 25,323,720
Gas swap settlement, net	(25,416,162)	(3,917,904)
Total operating revenues	22,954,598	21,405,816
OPERATING EXPENSES		
Prepaid gas amortization	3,716,894	3,466,109
Administrative and general	127,972	106,703
Total operating expenses	3,844,866	3,572,812
OPERATING INCOME	19,109,732	17,833,004
NON-OPERATING REVENUES (EXPENSES)		
Interest income - net	466,549	458,430
Interest on debt	(16,819,995)	(16,773,704)
Total non-operating revenues (expenses)	(16,353,446)	(16,315,274)
CHANGE IN NET POSITION BEFORE DISTRIBUTIONS AND CONTRIBUTIONS	2,756,286	1,517,730
Distributions to Member	(941,183)	(842,631)
Member contributions	139,953	79,408
CHANGE IN NET POSITION	1,955,056	754,507
NET POSITION - BEGINNING OF YEAR	(6,564,981)	(7,319,488)
NET POSITION - END OF YEAR	\$ (4,609,925)	\$ (6,564,981)

The accompanying notes are an integral part of these financial statements.

NORTHERN CALIFORNIA ENERGY AUTHORITY
STATEMENTS OF CASH FLOWS

	Years Ended December 31,	
	2022	2021
CASH FLOWS FROM OPERATING ACTIVITIES		
Receipts from gas sales to Member	\$ 42,429,920	\$ 23,381,880
Other receipts/payments - net	(19,475,322)	(1,976,064)
Net cash provided by operating activities	22,954,598	21,405,816
CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES		
Interest payments on long-term debt	(21,752,850)	(21,752,850)
Distributions to Member	(941,183)	(842,631)
Net cash used in noncapital financing activities	(22,694,033)	(22,595,481)
CASH FLOWS FROM INVESTING ACTIVITIES		
Sale of investments	11,816,872	22,595,342
Purchase of investments	(20,908,970)	(21,904,299)
Interest received	513,614	498,618
Net cash provided by (used in) investing activities	(8,578,484)	1,189,661
Net decrease in cash and cash equivalents	(8,317,919)	(4)
Cash and cash equivalents - beginning of year	10,876,505	10,876,509
Cash and cash equivalents - end of the year	\$ 2,558,586	\$ 10,876,505
RECONCILIATION OF OPERATING INCOME TO NET CASH PROVIDED BY OPERATING ACTIVITIES		
Operating income	\$ 19,109,732	\$ 17,833,004
Adjustments to reconcile operating income to net cash provided by operating activities:		
Amortization of prepaid gas supply	3,716,894	3,466,109
Changes in operating assets and liabilities:		
Receivables	(5,940,840)	(1,400,208)
Prepaid expenses	(11,981)	27,295
Payables and accruals	6,080,793	1,479,616
Net cash provided by operating activities	\$ 22,954,598	\$ 21,405,816
SUPPLEMENTAL DISCLOSURE OF NONCASH AND RELATED FINANCING ACTIVITIES		
Amortization of debt related premiums	\$ 4,932,855	\$ 4,979,146
Contributions from Member	139,953	79,408

The accompanying notes are an integral part of these financial statements.

NORTHERN CALIFORNIA ENERGY AUTHORITY
NOTES TO FINANCIAL STATEMENTS

NOTE 1. ORGANIZATION AND OPERATIONS

The Northern California Energy Authority (Agency) is a joint powers authority (JPA) formed by the Sacramento Municipal Utility District (SMUD) and the Sacramento Municipal Utility District Financing Authority (SFA) pursuant to the California Government Code (collectively, Members). SFA is a JPA formed by SMUD and the Modesto Irrigation District. The purpose of the Agency is to prepay for a supply of a fixed quantity of natural gas and electricity (commodity) to be delivered over a thirty-year period (Commodity Project) by J. Aron & Company LLC (J. Aron) under a Prepaid Commodity Sales Agreement (Prepaid Agreement) between the Agency and J. Aron. The Prepaid Agreement terminates on May 31, 2049. J. Aron is obligated to make payments to the Agency for any shortfall of commodity not delivered or taken under the Prepaid Agreement for any reason, including force majeure.

The Agency has entered into a Commodity Supply Contract (CSC) with SMUD that provides for the sale of all commodities delivered to the Agency over the term of the Prepaid Agreement. SMUD is obligated to pay the Agency for the quantities of commodity delivered under the CSC and to pay damages for commodity that SMUD fails to take pursuant to the terms of the CSC. SMUD has no obligation to pay for commodity that the Agency fails to deliver. The Agency anticipates that SMUD will be the only project participant with respect to the Commodity Project during the term of the Prepaid Agreement. However, in the event of a default by SMUD under the CSC, the Agency has agreed to terminate the CSC and may enter into a replacement CSC with one or more municipal utilities on substantially the same terms as the CSC.

The Agency has no employees. The Commodity Project is operated by SMUD's staff. SMUD is obligated to contribute to the Agency the actual costs of providing administrative and general services. SMUD contributed \$0.1 million both in 2022 and 2021.

The JPA agreement will remain in effect until terminated by a supplemental written agreement of the parties; provided, that in no event shall the JPA agreement terminate while any contracts between the Agency and either of the parties or other parties are in effect, or while any bonds or notes of the Agency are outstanding. Commodity Project revenues and the subsequent payments of principal and interest related to the Agency's long-term debt are dependent upon the continued delivery of commodity to the Commodity Project under the Prepaid Agreement. Various termination events are specified in the Prepaid Agreement. Upon the occurrence of any such event, the Prepaid Agreement may be terminated by the Agency or J. Aron. If the Prepaid Agreement is terminated, J. Aron will be required to pay a scheduled termination payment to the Agency. Any termination of the Prepaid Agreement will result in the extraordinary mandatory redemption of the Agency's long-term debt. Neither SFA nor SMUD has any obligation or liability to the Agency beyond that specifically provided for in the JPA agreement or the Commodity Project agreement.

The Agency's Commission is comprised of SMUD's Board of Directors. The Agency is a separate legal entity; however, it is included in the financial statements of SMUD as a component unit because of the extent of its operational and financial relationships with SMUD.

NOTE 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Method of Accounting. The accounting records of the Agency are maintained in accordance with Generally Accepted Accounting Principles for proprietary funds as prescribed by the Governmental Accounting Standards Board (GASB). The Agency's accounting records generally follow the Uniform System of Accounts for Public Utilities and Licensees prescribed by the Federal Energy Regulatory Commission. The financial statements are reported using the economic resources measurement focus and the accrual basis of accounting. Revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of related cash flows. Commodity sale revenues, gas swap payments and purchase costs that are directly related to delivery of commodity are reported as operating revenues and expenses. All other revenues and expenses are reported as non-operating revenues and expenses.

Use of Estimates. The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America (U.S.) requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenues and expenses. Actual results could differ from those estimates.

Restricted Assets. The Agency's restricted assets are comprised of U.S. government securities and guaranteed investment contracts which use is limited for specific purposes pursuant to the Indenture of Trust (Indenture) requirements. The Indenture specifies the flow of cash into the various Agency funds and dictates when they may become unrestricted.

Cash and Cash Equivalents. Cash and cash equivalents include all debt instruments purchased with an original maturity of 90 days or less and all investments in money market funds.

Investments. The Agency's investments consist of guaranteed investment contracts and are measured at cost.

Receivable from Member. The Agency records as a Receivable from Member the amounts due from SMUD for the purchase of commodity from the Commodity Project.

Prepaid Gas Supply. The Agency has prepaid for delivery of a natural gas supply with the proceeds from revenue bonds. The Agency provides for amortization on the historical cost of the Prepaid Gas Supply on a net present value (NPV) basis in which the change in the NPV of the Prepaid Agreement for the remaining term of its contract life from the beginning of the period to the end of the period is the amortization charged for the period. When the Agency amortizes its Prepaid Gas Supply, the amortization is recorded against the current portion of Prepaid Gas Supply.

Derivative Instruments. The Agency enters into a forward contract (commodity price swap agreement) to manage its exposure to market volatility of commodity prices. The Agency does not enter into these agreements for trading purposes. Due to the termination provisions of these agreements, they have no fair value, and therefore, there is no mark-to-market and the Agency does not record these derivative instruments on its Statements of Net Position. The Agency is exposed to the risk of early termination of the Prepaid Agreement if the counterparties default or if the swap agreements are terminated. Net swap payments received or paid are reported as a component of Operating Revenues in the Statements of Revenues, Expenses and Changes in Net Position.

Amortization of Bond Premiums. Bond premiums are amortized over the life of the bonds using the scientific amortized cost procedure gross method. Unamortized premiums are netted with long-term debt - net on the Statements of Net Position.

Commodity Price Swap Agreement. The Agency uses a forward contract to hedge the impact of market volatility on gas commodity prices for its CSC.

Net Position. The Agency classifies its Net Position into two components as follows:

- Restricted - This component of net position consists of assets with constraints placed on their use, either externally or internally. Constraints include those imposed by debt indentures (excluding amounts considered in net capital), grants or laws and regulations of other governments, by law through constitutional provisions or enabling legislation, or by the Commission. These restricted assets are reduced by liabilities related to those assets.
- Unrestricted - This component of net position consists of net amount of the assets and liabilities that do not meet the definition of “Restricted.”

Gas Sales to Member. Gas sales to Member are recorded as revenues when the natural gas is delivered.

Operating Expenses. Operating expenses include the cost of sales and services, administrative expenses and amortization on Prepaid Commodity Supply assets and are recorded when incurred.

Distributions to Member. Amounts paid to SMUD from surplus funds are recorded as Distributions to Member.

Member Contributions. Amounts contributed by SMUD for the actual costs of providing administrative and general services are recorded as Member Contributions.

Subsequent Events. Subsequent events for the Agency have been evaluated through February 24, 2023 which is the date that the financial statements were available to be issued.

Recent Accounting Pronouncements, not yet adopted. In March 2020, GASB issued SGAS No. 94, *“Public-Private and Public-Public Partnerships and Availability Payment Arrangements”* (GASB No. 94). The primary objective of this Statement is to provide guidance for accounting and financial reporting related to public-private and public-public partnership arrangements (PPPs) and availability payment arrangements (APAs). A PPP is an arrangement in which a government (the transferor) contracts with an operator (a governmental or nongovernmental entity) to provide public services by conveying control of the right to operate or use a nonfinancial asset, such as infrastructure or other capital asset (the underlying PPP asset), for a period of time in an exchange or exchange-like transaction. An APA is an arrangement in which a government compensates an operator for services that may include designing, constructing, financing, maintaining, or operating an underlying nonfinancial asset for a period of time in an exchange or exchange-like transaction. This statement is effective for the Agency in 2023. The Agency is currently assessing the financial impact of adopting this statement but does not expect it to be material.

In April 2022, GASB issued SGAS No. 99, *“Omnibus 2022”* (GASB No. 99). This statement addresses a variety of topics and is effective for the Agency in 2022, 2023, or 2024 depending on the requirement. Statement of Governmental Accounting Standards (SGAS) No. 87, *“Leases”*, effective in 2022 has no financial impact as the Agency does not have lease contracts. The Agency is currently assessing the financial impact of adopting the remaining topics in this statement that are effective in 2023 and 2024.

In June 2022, GASB issued SGAS No. 100, *“Accounting Changes and Error Corrections – an amendment of GASB Statement No. 62”* (GASB No. 100), to enhance accounting and financial reporting requirements for accounting changes and error corrections. The statement defines accounting changes and sets forth requirements for reporting changes and error corrections in the financial statements. In addition, the statement contains requirements for disclosure in notes to financial statements of information about accounting changes and error corrections. Furthermore, for periods that are earlier than those included in the financial statements, information presented in required supplementary information and supplementary information should be restated for error corrections, but not for changes in accounting principles. This statement is effective for the Agency in 2024. The Agency is currently assessing the financial statement impact of adopting this statement.

NOTE 3. CASH, CASH EQUIVALENTS, AND INVESTMENTS

Cash and Cash Equivalents. Cash and cash equivalents include all debt instruments purchased with an original maturity of 90 days or less and all investments in money market funds.

Cash Equivalents and Investments. The Agency's investments are governed by the California State and Municipal Codes and its Indenture, which allow Agency investments to include: obligations which are unconditionally guaranteed by the U.S. Government or its agencies or instrumentalities; direct and general obligations of the State or any local agency within the State; bankers' acceptances; commercial paper; certificates of deposit; repurchase and reverse repurchase agreements; medium term corporate notes; Local Agency Investment Fund; and money market funds. The Agency's investment policy also includes restrictions for investments relating to maximum amounts invested as a percentage of total portfolio and with a single issuer, maximum maturities, and minimum credit ratings. The Agency uses the credit rating of The Goldman Sachs Group Incorporated, the parent company of J. Aron as they do not have an individual credit rating.

Credit Risk. This is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. To mitigate the risk, the Agency limits investments to those rated at least, at the credit rating of the commodity supplier, or, if the commodity supplier is not rated, the guarantor of the commodity supplier which is currently Goldman Sachs.

Custodial Credit Risk. This is the risk that in the event of the failure of a depository financial institution or counterparty to a transaction, the Agency's deposits may not be returned or the Agency will not be able to recover the value of its deposits, investments or securities that are in the possession of another party. The Agency does not have a deposit or investment policy for custodial credit risk. At December 31, 2022 and 2021, the Agency had money market funds of \$2.6 million and \$10.9 million which were uninsured and were held in trust for the benefit of the Agency.

Concentration of Credit Risk. This is the risk of loss attributed to the magnitude of an entity's investment in a single issuer. The Agency places no limit on the amounts invested in any one issuer for federal agency securities. The Agency has concentrations of risk greater than five percent invested in J. Aron of 100 percent at December 31, 2022 and 2021.

Interest Rate Risk. This is the risk that investments are exposed to fair value losses arising from increasing interest rates. Though the Agency has restrictions as to the maturities of some of the investments, it does not have a formal policy for interest rate risk. The Agency had no investments subject to this risk at December 31, 2022 and 2021. At December 31, 2022 and 2021, all investment funds were in guaranteed investment contracts that will terminate on June 30, 2024.

Investment Agreement. The Agency has entered into guaranteed investment contracts in which it has agreed to invest the debt service fund for a fixed rate of return of 3.4 percent, and the debt service reserve and the working capital funds for a guaranteed fixed rate of return of 3.6 percent with J. Aron. The agreements terminate on June 30, 2024.

The following schedules present credit risk by type of security held at December 31, 2022 and 2021. The credit ratings listed are from Standard & Poor's.

The Agency's cash, cash equivalents, and investments consist of the following:

	Credit	December 31,	
	Rating	2022	2021
Cash and Cash Equivalents:			
Money market funds	AAAm	\$ 2,558,586	\$ 10,876,505
Total cash and cash equivalents		2,558,586	10,876,505
Investments:			
Guaranteed investment contracts	BBB+	19,350,323	10,258,225
Total investments		19,350,323	10,258,225
Total cash, cash equivalents, and investments		<u>\$ 21,908,909</u>	<u>\$ 21,134,730</u>

The Agency's cash, cash equivalents, and investments are classified in the Statements of Net Position as follows:

	December 31,	
	2022	2021
Cash, cash equivalents, and investments:		
Debt service funds:		
Debt service fund	\$ 14,898,077	\$ 14,134,664
Debt service reserve fund	4,000,000	4,000,000
Total debt service funds	18,898,077	18,134,664
Other restricted funds:		
Working capital fund	3,000,000	3,000,000
Revenue fund	10,832	66
Total other restricted funds	3,010,832	3,000,066
Total cash, cash equivalents, and investments	<u>\$ 21,908,909</u>	<u>\$ 21,134,730</u>

NOTE 4. PREPAID GAS SUPPLY

The Agency's prepaid gas supply is presented below:

	December 31,	
	2022	2021
Prepaid gas supply	\$ 528,808,082	\$ 532,524,976
Less: amounts due within one year	(4,258,793)	(3,716,894)
Total prepaid gas supply - noncurrent portion	<u>\$ 524,549,289</u>	<u>\$ 528,808,082</u>

The following summarizes prepaid gas supply activity for the year ended December 31, 2022:

	January 1, 2022	Terminations	Amortization	December 31, 2022
Prepaid gas supply	\$ 532,524,976	\$ -0-	\$ (3,716,894)	\$ 528,808,082

The following summarizes prepaid gas supply activity for the year ended December 31, 2021:

	January 1, 2021	Terminations	Amortization	December 31, 2021
Prepaid gas supply	\$ 535,991,085	\$ -0-	\$ (3,466,109)	\$ 532,524,976

The prepaid gas supply is the discounted NPV of the fixed monthly natural gas prices per million British Thermal Units (mmbtu) as specified in, and over the remaining term of, the Prepaid Agreement.

NOTE 5. LONG-TERM DEBT

The Agency issued \$539.6 million of 2018 Commodity Supply Revenue Bonds (Bonds) in December 2018 maturing in June 2049, with a mandatory tender purchase in June 2024. The Bonds have fixed interest rates of 4.0 percent to 5.0 percent.

The Agency's long-term debt is presented below:

	December 31,	
	2022	2021
2018 Commodity supply revenue bonds, fixed rates 4.0% - 5.0%, 2023-2049	\$ 539,615,000	\$ 539,615,000
Unamortized premiums	<u>7,267,185</u>	<u>12,200,040</u>
Total long-term debt	546,882,185	551,815,040
Less: amounts due within one year	<u>(2,320,000)</u>	<u>-0-</u>
Total long-term debt - net	<u>\$ 544,562,185</u>	<u>\$ 551,815,040</u>

The following summarizes long-term debt activity for the year ended December 31, 2022:

	January 1, 2022	Additions	Payments/ Amortizations	December 31, 2022
2018 Commodity supply revenue bonds	\$ 539,615,000	\$ -0-	\$ -0-	\$ 539,615,000
Unamortized premiums	<u>12,200,040</u>	<u>-0-</u>	<u>(4,932,855)</u>	<u>7,267,185</u>
Total long-term debt	<u>\$ 551,815,040</u>	<u>\$ -0-</u>	<u>\$ (4,932,855)</u>	<u>\$ 546,882,185</u>

The following summarizes long-term debt activity for the year ended December 31, 2021:

	January 1, 2021	Additions	Payments/ Amortizations	December 31, 2021
2018 Commodity supply revenue bonds	\$ 539,615,000	\$ -0-	\$ -0-	\$ 539,615,000
Unamortized premiums	<u>17,179,186</u>	<u>-0-</u>	<u>(4,979,146)</u>	<u>12,200,040</u>
Total long-term debt	<u>\$ 556,794,186</u>	<u>\$ -0-</u>	<u>\$ (4,979,146)</u>	<u>\$ 551,815,040</u>

The annual debt service requirements to maturity for the Bonds are as follows at December 31, 2022:

Year	Principal	Interest	Total
2023	\$ 2,320,000	\$ 21,752,850	\$ 24,072,850
2024	14,505,000	21,636,850	36,141,850
2025	17,300,000	20,911,600	38,211,600
2026	16,710,000	20,219,600	36,929,600
2027	17,660,000	19,551,200	37,211,200
2028-2032 (combined)	89,605,000	86,341,000	175,946,000
2033-2037 (combined)	95,505,000	70,389,600	165,894,600
2038-2042 (combined)	98,150,000	49,866,400	148,016,400
2043-2047 (combined)	127,685,000	27,773,800	155,458,800
2048-2049 (combined)	<u>60,175,000</u>	<u>3,638,000</u>	<u>63,813,000</u>
Total	<u>\$ 539,615,000</u>	<u>\$ 342,080,900</u>	<u>\$ 881,695,900</u>

Interest in the preceding table includes interest requirements at current fixed rate coupon of 4.0 percent to 5.0 percent until mandatory remarketing date on July 1, 2024, and an assumed 4.0 percent fixed rate after mandatory remarketing. Principal in the preceding table includes known principal payments until mandatory remarketing date and the amortization schedule after mandatory remarketing date.

The Agency had pledged future net revenues to repay \$539.6 million at December 31, 2022 and 2021, for Bonds issued in December 2018. Proceeds from the Bonds were used to purchase the Commodity Project from J. Aron at a price of \$541.9 million with the remaining amounts used to fund the appropriate accounts for the Agency. The Bonds, payable through 2049, are secured solely by a pledge of and lien on the trust estate under the Indenture which includes bond proceeds, rights under the GSC, revenues, any termination payment and any investment income. Annual principal and interest payments on the Bonds are expected to require approximately 100 percent of the Agency's net revenues. The total principal and interest remaining to be paid on the Bonds is \$881.7 million and \$903.4 million at December 31, 2022 and 2021, respectively. Debt service payments on the Bonds are made semi-annually on January 1 and July 1. The first Bond principal payment is due in 2023. Interest paid was \$21.8 million for both 2022 and 2021. Total net revenues were \$23.4 million and \$21.9 million for 2022 and 2021, respectively.

The ability of the Agency to pay related principal and interest payments associated with the Bonds is contingent upon the continued successful operation of the Commodity Project. If the Prepaid Agreement were to terminate, a termination payment would be received into the trust estate from J. Aron. The amount of the termination payment, together with the amounts required to be on deposit in certain funds and accounts held by the trustee, has been calculated to provide a sum sufficient to pay the redemption price of the Bonds upon early termination of the Prepaid Agreement. The amount of termination payment declines over time as J. Aron performs its commodity delivery obligations under the Prepaid Agreement. Agency Members are not obligated to pay debt service costs if the Commodity Project is unable to operate pursuant to the Prepaid Agreement or if revenues generated by the Commodity Project are insufficient to meet debt service obligations.

Terms of Debt Indenture. The debt indenture contains a provision that in an event of default, the holders of the majority of the debt outstanding are entitled to declare the outstanding amounts due immediately.

NOTE 6. COMMITMENTS

Commodity Price Swap Agreement. The Agency has entered into a floating-to-fixed natural gas and electricity commodity price swap agreement (Commodity Swap Agreement) with a counterparty for the purpose of fixing the variable price on the Agency's commodity sales to SMUD under the CSC. The Agency pays an index-based commodity price over the thirty-year period and receives a fixed commodity price as specified in the Commodity Swap Agreement, for notional quantities of commodity at a pricing point corresponding to the daily contract quantity and the delivery point under the Prepaid Agreement. The Commodity Swap Agreement terminates on July 1, 2049. The total notional amount of the Commodity Swap Agreement remaining at December 31, 2022 was 97.7 million mmbtu and 9.9 million MWh. Presently, the Commodity Swap Agreement is an average of 20,500 mmbtu per calendar day. Actual daily commodity deliveries will vary month to month, changing on the first day of the month. Early termination of the Commodity Swap Agreement would occur upon termination of the Prepaid Agreement for any reason whatsoever. Upon early termination, the Commodity Swap Agreement would have no value to either party.

NOTE 7. CONTINGENCIES

General Contingencies. The Agency's ability to make principal and interest payments on its Bonds is contingent upon the continued delivery of commodity to the Commodity Project under the Prepaid Agreement. The Members are not obligated to make principal and interest debt service payments in the event the Commodity Project does not operate and there are insufficient funds to pay the bondholders. The Agency expects that the commodity will continue to be delivered as planned.

In the normal operation of business, the Agency is party to various claims, legal actions and complaints. Management and the Agency's legal counsel believe that there are no material loss contingencies that would have a material adverse impact on the financial position of the Agency.

Northern California Gas Authority No. 1

Financial Statements
and Independent Auditors' Report
December 31, 2022 and 2021

NORTHERN CALIFORNIA GAS AUTHORITY No. 1
TABLE OF CONTENTS

Independent Auditors' Report	1
Required Supplementary Information	
Management's Discussion and Analysis (Unaudited)	3
Basic Financial Statements	
Statements of Net Position	7
Statements of Revenues, Expenses and Changes in Net Position	8
Statements of Cash Flows	9
Notes to Financial Statements	
Note 1. Organization and Operations	10
Note 2. Summary of Significant Accounting Policies	11
Note 3. Cash, Cash Equivalents, and Investments	13
Note 4. Prepaid Gas Supply	15
Note 5. Long-term Debt	16
Note 6. Commitments	18
Note 7. Contingencies	18

Independent Auditors' Report

To the Board of Directors of
Northern California Gas Authority No. 1

Opinion

We have audited the accompanying financial statements of the Northern California Gas Authority No. 1, a component unit of Sacramento Municipal Utility District, as of and for the years ended December 31, 2022 and 2021, and the related notes to the financial statements, which collectively comprise the Northern California Gas Authority No. 1's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Northern California Gas Authority No. 1 as of December 31, 2022 and 2021, and the changes in financial position and cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Northern California Gas Authority No. 1 and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America; and for the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Northern California Gas Authority No. 1's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Northern California Gas Authority No. 1's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Northern California Gas Authority No. 1's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings and certain internal control-related matters that we identified during the audit.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the required supplementary information, as listed in the table of contents be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

The image shows a handwritten signature in black ink that reads "Baker Tilly US, LLP". The signature is written in a cursive, flowing style.

Madison, Wisconsin
February 24, 2023

NORTHERN CALIFORNIA GAS AUTHORITY No. 1
MANAGEMENT'S DISCUSSION AND ANALYSIS
(Unaudited)

Using this Financial Report

This annual financial report for Northern California Gas Authority No. 1 (Agency) consists of management's discussion and analysis and the financial statements, including notes to the financial statements. The basic Financial Statements consist of the Statements of Net Position, the Statements of Revenues, Expenses and Changes in Net Position and the Statements of Cash Flows.

The Agency's accounting records are maintained in accordance with Generally Accepted Accounting Principles for proprietary funds as prescribed by the Governmental Accounting Standards Board. The Agency's accounting records generally follow the Uniform System of Accounts for Public Utilities and Licensees prescribed by the Federal Energy Regulatory Commission.

Overview of the Financial Statements

The following discussion and analysis of the financial performance of the Agency provides an overview of the financial activities for the years ended December 31, 2022 and 2021. This discussion and analysis should be read in conjunction with the Agency's financial statements and accompanying notes, which follow this section.

The Statements of Net Position provide information about the nature and amount of resources and obligations at a specific point in time.

The Statements of Revenues, Expenses and Changes in Net Position report all of the Agency's revenues and expenses during the periods indicated.

The Statements of Cash Flows report the cash provided and used by operating activities, as well as other cash sources such as investment income and debt financing, and other cash uses such as payments for debt service.

The Notes to Financial Statements provide additional detailed information to support the financial statements.

Organization and Nature of Operations

The Agency is a joint powers authority (JPA) formed by the Sacramento Municipal Utility District (SMUD) and the Sacramento Municipal Utility District Financing Authority (SFA) in 2007. SFA is a JPA formed by SMUD and the Modesto Irrigation District. The Agency was formed for the purpose of prepaying for a fixed quantity supply of natural gas to be delivered over a twenty-year period by Morgan Stanley Capital Group, Inc. (MSCG) under a Prepaid Gas Purchase and Sale Agreement (Prepaid Gas Supply) between the Agency and MSCG. The Agency then sells the natural gas to SMUD. The Agency issued bonds in May 2007 and commenced gas sales in June 2007.

SMUD purchases all of the natural gas delivered to the Agency pursuant to the Gas Supply Contract between SMUD and the Agency. The Agency has no employees and SMUD contributes to the Agency the actual costs of providing general and administrative services.

The Agency's Commission is comprised of SMUD's Board of Directors. The Agency is a separate legal entity; however, due to the extent of its operational and financial relationship with SMUD, it is included in the financial statements of SMUD.

FINANCIAL POSITION

The following table summarizes the financial position as of December 31 (in thousands).

CONDENSED STATEMENT OF NET POSITION

	2022	2021	2020
Assets			
Current assets	\$ 40,591	\$ 39,938	\$ 37,271
Noncurrent assets	112,872	138,186	160,648
Total assets	<u>\$ 153,463</u>	<u>\$ 178,124</u>	<u>\$ 197,919</u>
Liabilities			
Long-term debt - net	\$ 120,070	\$ 142,935	\$ 163,485
Current liabilities	24,404	25,351	24,288
Total liabilities	<u>144,474</u>	<u>168,286</u>	<u>187,773</u>
Net position			
Restricted	11,178	10,022	8,974
Unrestricted	(2,189)	(184)	1,172
Total net position	<u>8,989</u>	<u>9,838</u>	<u>10,146</u>
Total liabilities and net position	<u>\$ 153,463</u>	<u>\$ 178,124</u>	<u>\$ 197,919</u>

TOTAL ASSETS

Total assets in 2022 decreased \$24.7 million or 13.8% over 2021, primarily due to a decrease of \$22.3 million in prepaid gas supply due to amortization for gas delivered in 2022.

Total assets in 2021 decreased \$19.8 million or 10.0% over 2020, primarily due to a decrease of \$19.8 million in prepaid gas supply due to amortization for gas delivered in 2021.

TOTAL LIABILITIES & NET POSITION

The total liabilities in 2022 decreased \$23.8 million or 14.1% over 2021, primarily due to a decrease of \$20.6 million in long-term debt as result of scheduled principal payment and \$3.0 million in Credit support for collateral obligation due to increase in long-term senior unsecured debt credit rating of MSCG removing the collateral requirement.

Net position in 2022 decreased \$0.8 million or 8.6% over 2021, primarily due to a \$0.6 million distribution to Member.

The total liabilities in 2021 decreased \$19.5 million or 10.4% over 2020, primarily due to a decrease of \$18.5 million in long-term as result of scheduled principal payment.

Net position in 2021 decreased \$0.3 million or 3.0% over 2020, primarily due to a \$0.5 million distribution to Member.

RESULTS OF OPERATIONS

The following table summarizes the operating results for the years ended December 31 (in thousands).

CONDENSED STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

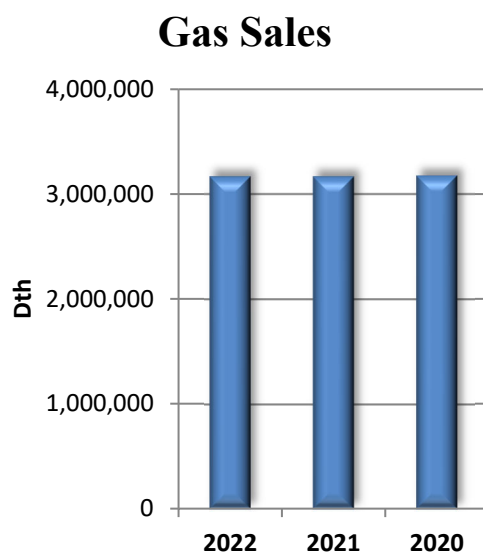
	2022	2021	2020
Operating revenues	\$ 28,472	\$ 27,092	\$ 25,935
Operating expenses	(22,520)	(19,980)	(17,810)
Operating income	5,952	7,112	8,125
Interest income	326	492	533
Interest on debt	(6,610)	(7,449)	(8,205)
Change in net position before distributions and contributions	(332)	155	453
Distributions to Member	(590)	(543)	(507)
Member contributions	73	80	86
Change in net position	(849)	(308)	32
Net position - beginning of year	9,838	10,146	10,114
Net position - end of year	<u>\$ 8,989</u>	<u>\$ 9,838</u>	<u>\$ 10,146</u>

OPERATING REVENUES

Total operating revenues were \$28.5 million for 2022, an increase of \$1.4 million or 5.1% over 2021. The gas dekatherm (Dth) sales decreased 0.1% compared to 2021. Gas sales to Member increased \$4.6 million as a result of higher gas price index, offset by a decrease of \$3.2 million in gas swap settlement - net due to the lower net swap price.

Total operating revenues were \$27.1 million for 2021, an increase of \$1.2 million or 4.5% over 2020. The gas Dth sales decreased 0.3% compared to 2020. Gas sales to Member increased \$3.7 million as a result of higher gas price index, offset by a decrease of \$2.5 million in gas swap settlement - net due to lower net swap price.

The following chart shows gas sales to member in 2022, 2021 and 2020.



OPERATING EXPENSES

Total operating expenses were \$22.5 million for 2022, an increase of \$2.5 million or 12.7% over 2021, primarily due to an increase of \$2.5 million amortization of the prepaid gas supply.

Total operating expenses were \$20.0 million for 2021, an increase of \$2.2 million or 12.2% over 2020, primarily due to an increase of \$2.2 million in amortization of the prepaid gas supply.

Requests for Information

For more information about the Northern California Gas Authority No. 1, visit our website at www.smud.org or contact us at customerservices@smud.org.

NORTHERN CALIFORNIA GAS AUTHORITY No. 1
STATEMENTS OF NET POSITION

	December 31,	
	2022	2021
ASSETS		
RESTRICTED ASSETS		
Debt service fund	\$ 12,712,169	\$ 11,781,159
Other restricted funds	3,775	3,042,126
Less current portion	(12,715,944)	(14,823,285)
Total restricted assets	-0-	-0-
CURRENT ASSETS		
Restricted cash and cash equivalents	12,715,944	14,823,285
Receivables:		
Gas sales to Member	1,092,185	864,694
Accrued interest and other	1,469,101	1,787,771
Prepaid gas supply	25,193,326	22,342,124
Other prepayments	15,630	15,630
Regulatory costs to be recovered within one year	104,796	104,796
Total current assets	40,590,982	39,938,300
NONCURRENT ASSETS		
Prepaid gas supply	112,450,422	137,643,748
Regulatory costs for future recovery	366,789	471,585
Prepaid bond insurance costs	54,706	70,336
Total noncurrent assets	112,871,917	138,185,669
TOTAL ASSETS	\$ 153,462,899	\$ 178,123,969
LIABILITIES AND NET POSITION		
LONG-TERM DEBT - net	\$ 120,070,000	\$ 142,935,000
CURRENT LIABILITIES		
Credit support for collateral obligation	1,211	3,042,109
Long-term debt due within one year	22,865,000	20,550,000
Accrued interest and other	1,537,981	1,759,099
Total current liabilities	24,404,192	25,351,208
TOTAL LIABILITIES	144,474,192	168,286,208
NET POSITION		
Restricted	11,177,963	10,022,077
Unrestricted	(2,189,256)	(184,316)
TOTAL NET POSITION	8,988,707	9,837,761
COMMITMENTS AND CONTINGENCIES (Notes 6 and 7)		
TOTAL LIABILITIES AND NET POSITION	\$ 153,462,899	\$ 178,123,969

The accompanying notes are an integral part of these financial statements.

NORTHERN CALIFORNIA GAS AUTHORITY No. 1
STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

	Years Ended December 31,	
	2022	2021
OPERATING REVENUES		
Gas sales to Member	\$ 11,316,836	\$ 6,765,421
Gas swap settlement, net	17,155,280	20,326,665
Total operating revenues	28,472,116	27,092,086
OPERATING EXPENSES		
Prepaid gas amortization	22,342,124	19,795,206
Administrative and general	73,367	80,116
Regulatory amounts collected in rates	104,796	104,796
Total operating expenses	22,520,287	19,980,118
OPERATING INCOME	5,951,829	7,111,968
NON-OPERATING REVENUES (EXPENSES)		
Interest income	325,746	492,279
Interest on debt	(6,609,789)	(7,449,069)
Total non-operating revenues (expenses)	(6,284,043)	(6,956,790)
CHANGE IN NET POSITION BEFORE DISTRIBUTIONS AND CONTRIBUTIONS	(332,214)	155,178
Distributions to Member	(590,207)	(543,839)
Member contributions	73,367	80,116
CHANGE IN NET POSITION	(849,054)	(308,545)
NET POSITION - BEGINNING OF YEAR	9,837,761	10,146,306
NET POSITION - END OF YEAR	\$ 8,988,707	\$ 9,837,761

The accompanying notes are an integral part of these financial statements.

NORTHERN CALIFORNIA GAS AUTHORITY No. 1
STATEMENTS OF CASH FLOWS

	December 31,	
	2022	2021
CASH FLOWS FROM OPERATING ACTIVITIES		
Receipts from gas sales to Member	\$ 11,089,345	\$ 6,310,166
Receipts from others	17,263,381	20,672,725
Payments for credit support collateral	(3,040,898)	(838,058)
Net cash provided by operating activities	25,311,828	26,144,833
CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES		
Repayment of bonds	(20,550,000)	(18,450,000)
Other restricted funds	(6,815,277)	(7,631,961)
Distributions to Member	(590,207)	(543,839)
Net cash used in noncapital financing activities	(27,955,484)	(26,625,800)
CASH FLOWS FROM INVESTING ACTIVITIES		
Interest received	536,315	491,805
Net cash provided by investing activities	536,315	491,805
Net increase (decrease) in cash and cash equivalents	(2,107,341)	10,838
Cash and cash equivalents - beginning of the year	14,823,285	14,812,447
Cash and cash equivalents - end of the year	\$ 12,715,944	\$ 14,823,285
RECONCILIATION OF OPERATING INCOME TO		
NET CASH PROVIDED BY OPERATING ACTIVITIES		
Operating income	\$ 5,951,829	\$ 7,111,968
Adjustments to reconcile operating income to net cash provided by operating activities:		
Amortization of prepaid gas supply	22,342,124	19,795,206
Regulatory amortization	104,796	104,796
Payments for credit support collateral	(3,040,898)	(838,058)
Changes in operating assets and liabilities:		
Receivables	(119,390)	(109,195)
Payables and accruals	73,367	80,116
Net cash provided by operating activities	\$ 25,311,828	\$ 26,144,833
SUPPLEMENTAL DISCLOSURE OF NONCASH		
RELATED FINANCING ACTIVITIES		
Amortization of debt related premiums	\$ (15,630)	\$ (15,630)
Contributions from Member	73,367	80,116

The accompanying notes are an integral part of these financial statements.

NORTHERN CALIFORNIA GAS AUTHORITY No. 1
NOTES TO FINANCIAL STATEMENTS

NOTE 1. ORGANIZATION AND OPERATIONS

The Northern California Gas Authority No. 1 (Agency) is a joint powers authority (JPA) formed by the Sacramento Municipal Utility District (SMUD) and the Sacramento Municipal Utility District Financing Authority (SFA) pursuant to the California Government Code (collectively, Members). SFA is a JPA formed by SMUD and the Modesto Irrigation District. The purpose of the Agency is to prepay for a supply of a fixed quantity of natural gas to be delivered over a twenty-year period (Gas Project) by Morgan Stanley Capital Group, Inc. (MSCG) under a Prepaid Gas Purchase and Sale Agreement (Prepaid Agreement) between the Agency and MSCG. The Prepaid Agreement terminates on May 31, 2027. MSCG is obligated to make payments to the Agency for any shortfall of gas not delivered or taken under the Prepaid Agreement for any reason, including force majeure.

The Agency has entered into a Gas Supply Contract (GSC) with SMUD that provides for the sale of all of the natural gas delivered to the Agency over the term of the Prepaid Agreement. SMUD is obligated to pay the Agency for the quantities of gas delivered under the GSC and to pay damages for gas that SMUD fails to take pursuant to the terms of the GSC. SMUD has no obligation to pay for gas that the Agency fails to deliver. The Agency anticipates that SMUD will be the only project participant with respect to the Gas Project during the term of the Prepaid Agreement. However, in the event of a default by SMUD under the GSC, the Agency has agreed to terminate the GSC and may enter into a replacement GSC with one or more municipal utilities on substantially the same terms as the GSC.

The Agency has no employees. The Gas Project is operated by SMUD's staff. SMUD is obligated to contribute to the Agency the actual costs of providing administrative and general services. SMUD contributed \$0.1 million both in 2022 and 2021.

The JPA agreement will remain in effect until terminated by a supplemental written agreement of the parties; provided, that in no event shall the JPA agreement terminate while any contracts between the Agency and either of the parties or other parties are in effect, or while any bonds or notes of the Agency are outstanding. Gas Project revenues and the subsequent payments of principal and interest related to the Agency's long-term debt are dependent upon the continued delivery of natural gas to the Gas Project under the Prepaid Agreement. Various termination events are specified in the Prepaid Agreement. Upon the occurrence of any such event, the Prepaid Agreement may be terminated by the Agency or MSCG. If the Prepaid Agreement is terminated, MSCG will be required to pay a scheduled termination payment to the Agency. Any termination of the Prepaid Agreement will result in the extraordinary mandatory redemption of the Agency's long-term debt. Neither SFA nor SMUD has any obligation or liability to the Agency beyond that specifically provided for in the JPA agreement or the Gas Project agreement.

The Agency's Commission is comprised of SMUD's Board of Directors. The Agency is a separate legal entity; however, it is included in the financial statements of SMUD as a component unit because of the extent of its operational and financial relationships with SMUD.

NOTE 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Method of Accounting. The accounting records of the Agency are maintained in accordance with Generally Accepted Accounting Principles for proprietary funds as prescribed by the Governmental Accounting Standards Board (GASB). The Agency's accounting records generally follow the Uniform System of Accounts for Public Utilities and Licensees prescribed by the Federal Energy Regulatory Commission. The financial statements are reported using the economic resources measurement focus and the accrual basis of accounting. Revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of related cash flows. Natural gas sale revenues, gas swap payments and purchase costs that are directly related to delivery of natural gas are reported as operating revenues and expenses. All other revenues and expenses are reported as non-operating revenues and expenses.

Use of Estimates. The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America (U.S.) requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, revenues and expenses. Actual results could differ from those estimates.

Restricted Assets. The Agency's restricted assets are comprised of U.S. government securities and commercial paper which use is limited for specific purposes pursuant to the Indenture of Trust (Indenture) requirements. The Indenture specifies the flow of cash into the various Agency funds and dictates when they may become unrestricted.

Credit and Market Risk. The Agency entered into a synthetic guaranteed investment contract (see Note 3) in 2007 and is exposed to credit risk related to nonperformance by its investment provider. This contract requires the investment provider, MSCG, to post collateral if their credit ratings fall below agreed upon levels. The amount is recorded as current restricted asset with an associated current liability on the Statements of Net Position.

Cash and Cash Equivalents. Cash and cash equivalents include all debt instruments purchased with an original maturity of 90 days or less and all investments in money market funds.

Receivable from Member. The Agency records as a Receivable from Member the amounts due from SMUD for the purchase of natural gas from the Gas Project.

Prepaid Gas Supply. The Agency has prepaid for delivery of a natural gas supply with the proceeds from revenue bonds. The Agency provides for amortization on the historical cost of the Prepaid Gas Supply on a net present value (NPV) basis in which the change in the NPV of the Prepaid Agreement for the remaining term of its contract life from the beginning of the period to the end of the period is the amortization charged for the period. When the Agency amortizes its Prepaid Gas Supply, the amortization is recorded against the current portion of Prepaid Gas Supply.

Regulatory Deferrals. As a regulated entity, the Agency's financial statements are prepared in accordance with GASB Statement No. 62, *"Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989 Financial Accounting Standards Board and American Institute of Certified Public Accountants Pronouncements,"* which require that the effects of the rate making process be recorded in the financial statements. The Agency records regulatory assets and credits to reflect rate-making actions of the Commission. The account includes the unamortized debt issuance costs of previously issued bonds of the Agency. The regulatory asset is amortized using the straight line method over the remaining life of the associated bonds and recorded in Regulatory Amounts Collected in Rates in the Statements of Revenues, Expenses and Changes in Net Position.

Prepaid Bond Insurance Costs. The Agency recorded a prepaid asset for the prepaid bond insurance portion of unamortized debt issuance costs of previously issued bonds of the Agency. The prepaid bond insurance costs will be amortized using the straight line method over the remaining life of the associated bonds and recorded in Interest on Debt in the Statements of Revenues, Expenses and Changes in Net Position.

Derivative Instruments. The Agency enters into forward contracts (interest rate swap and natural gas commodity price swap agreements) to manage its exposure to interest rate risk and market volatility of natural gas commodity prices. The Agency does not enter into these agreements for trading purposes. Due to the termination provisions of these agreements, they have no fair value, and therefore, there is no mark-to-market and the Agency does not record these derivative instruments on its Statements of Net Position. The Agency is exposed to the risk of early termination of the Prepaid Agreement if the counterparties default or if the swap agreements are terminated. Net swap payments received or paid for the gas swap are reported as a component of Operating Revenues in the Statement of Revenues, Expenses and Changes in Net Position.

Gas Swap Agreement. The Agency uses forward contracts to hedge the impact of market volatility on gas commodity prices for its GSC.

Interest Rate Swap Agreements. The Agency enters into interest rate swap agreements to modify the effective interest rates on outstanding debt. Interest expense is reported net of the swap payments received or paid as a component of Interest on Debt in the Statement of Revenues, Expenses and Changes in Net Position.

Net Position. The Agency classifies its Net Position into two components as follows:

- **Restricted** - This component of net position consists of assets with constraints placed on their use, either externally or internally. Constraints include those imposed by debt indentures (excluding amounts considered in net capital), grants or laws and regulations of other governments, by law through constitutional provisions or enabling legislation, or by the Commission. These restricted assets are reduced by liabilities related to those assets.
- **Unrestricted** - This component of net position consists of net amount of the assets and liabilities that do not meet the definition of "Restricted."

Gas Sales to Member. Gas sales to Member are recorded as revenues when the natural gas is delivered.

Operating Expenses. Operating expenses include the cost of sales and services, administrative expenses and amortization on Prepaid Gas Supply assets and Regulatory Costs for Future Recovery and are recorded when incurred.

Distributions to Member. Amounts paid to SMUD from surplus funds are recorded as Distributions to Member.

Member Contributions. Amounts contributed by SMUD for the actual costs of providing administrative and general services are recorded as Member Contributions.

Subsequent Events. Subsequent events for the Agency have been evaluated through February 24, 2023, which is the date that the financial statements were available to be issued.

Recent Accounting Pronouncements, not yet adopted. In March 2020, GASB issued SGAS No. 94, *“Public-Private and Public-Public Partnerships and Availability Payment Arrangements”* (GASB No. 94). The primary objective of this Statement is to provide guidance for accounting and financial reporting related to public-private and public-public partnership arrangements (PPPs) and availability payment arrangements (APAs). A PPP is an arrangement in which a government (the transferor) contracts with an operator (a governmental or nongovernmental entity) to provide public services by conveying control of the right to operate or use a nonfinancial asset, such as infrastructure or other capital asset (the underlying PPP asset), for a period of time in an exchange or exchange-like transaction. An APA is an arrangement in which a government compensates an operator for services that may include designing, constructing, financing, maintaining, or operating an underlying nonfinancial asset for a period of time in an exchange or exchange-like transaction. This statement is effective for the Agency in 2023. The Agency is currently assessing the financial impact of adopting this statement but does not expect it to be material.

In April 2022, GASB issued SGAS No. 99, *“Omnibus 2022”* (GASB No. 99). This statement addresses a variety of topics and is effective for the Agency in 2022, 2023, or 2024 depending on the requirement. Statement of Governmental Accounting Standards (SGAS) No. 87, *“Leases”*, effective in 2022 has no financial impact as the Agency does not have lease contracts. The Agency is currently assessing the financial impact of adopting the remaining topics in this statement that are effective in 2023 and 2024.

In June 2022, GASB issued SGAS No. 100, *“Accounting Changes and Error Corrections – an amendment of GASB Statement No. 62”* (GASB No. 100), to enhance accounting and financial reporting requirements for accounting changes and error corrections. The statement defines accounting changes and sets forth requirements for reporting changes and error corrections in the financial statements. In addition, the statement contains requirements for disclosure in notes to financial statements of information about accounting changes and error corrections. Furthermore, for periods that are earlier than those included in the financial statements, information presented in required supplementary information and supplementary information should be restated for error corrections, but not for changes in accounting principles. This statement is effective for the Agency in 2024. The Agency is currently assessing the financial statement impact of adopting this statement.

NOTE 3. CASH, CASH EQUIVALENTS, AND INVESTMENTS

Cash and Cash Equivalents. Cash and cash equivalents include all debt instruments purchased with an original maturity of 90 days or less and all investments in money market funds.

Cash Equivalents and Investments. The Agency’s investments are governed by the California State and Municipal Codes and its Indenture, which allow Agency investments to include: obligations which are unconditionally guaranteed by the U.S. Government or its agencies or instrumentalities; direct and general obligations of the State or any local agency within the State; bankers’ acceptances; commercial paper; certificates of deposit; repurchase and reverse repurchase agreements; medium term corporate notes; Local Agency Investment Fund; and money market funds. The Agency’s investment policy also includes restrictions for investments relating to maximum amounts invested as a percentage of total portfolio and with a single issuer, maximum maturities, and minimum credit ratings.

Credit Risk. This is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. To mitigate the risk, the Agency limits investments to those rated, at a minimum, “A-1” or equivalent for short-term investments and “A” or equivalent for medium-term corporate notes by a nationally recognized rating agency.

Custodial Credit Risk. This is the risk that in the event of the failure of a depository financial institution or counterparty to a transaction, the Agency’s deposits may not be returned, or the Agency will not be able to recover the value of its deposits, investments or securities that are in the possession of another party. The Agency does not have a deposit or investment policy for custodial credit risk. At December 31, 2022 and 2021, the Agency had money market funds of \$0.1 million and \$4.9 million which were uninsured, respectively. At December 31, 2022 and 2021, \$0.1 million and \$1.9 million of the

money market funds were held in trust for the benefit of the Agency, respectively. The Agency held \$3.0 million as a collateral deposit from MSCG at December 31, 2021. In 2022, the Agency returned the collateral deposit to MSCG due to the upgrade in their credit rating. There is no collateral deposit held at December 31, 2022.

Concentration of Credit Risk. This is the risk of loss attributed to the magnitude of an entity's investment in a single issuer. The Agency places no limit on the amounts invested in any one issuer for federal agency securities. To limit the Agency's credit risk for commercial paper purchased under the Debt Service Fund Agreement, the aggregate maturity amount invested in any combination of one issuer, affiliate of issuer, or backed by any one credit support, cannot exceed \$30.0 million. The Agency has concentrations of risk greater than five percent invested in Chesham of 100 percent at December 31, 2022 and in Ebury of 100 percent at December 31, 2021.

Interest Rate Risk. This is the risk that investments are exposed to fair value losses arising from increasing interest rates. Though the Agency has restrictions as to the maturities of some of the investments, it does not have a formal policy for interest rate risk. At December 31, 2022 and 2021, all of the Agency's investments had maturities of one year or less.

Debt Service Fund Agreement. The Agency has entered into a synthetic guaranteed investment contract, in the form of a forward supply agreement, in which it has agreed to purchase securities with the debt service deposit amounts for a guaranteed fixed rate of return of 5.148 percent. Commercial paper delivered under the forward supply agreement is included within the investments below. The agreement terminates on June 30, 2027.

The following schedules present credit risk by type of security held at December 31, 2022 and 2021. The credit ratings listed are from Standard & Poor's (S&P).

The Agency's cash and cash equivalents consist of the following:

	Credit Rating	December 31,	
		2022	2021
Cash and Cash Equivalents:			
Money market funds	AAAm	\$ 138,737	\$ 4,930,653
Commercial paper	A-1	<u>12,577,207</u>	<u>9,892,632</u>
Total cash and cash equivalents		<u>\$ 12,715,944</u>	<u>\$ 14,823,285</u>

The Agency's cash and cash equivalents are classified in the Statements of Net Position as follows:

	December 31,	
	2022	2021
Cash and Cash Equivalents:		
Debt service fund	<u>\$ 12,712,169</u>	<u>\$ 11,781,159</u>
Other restricted funds:		
Collateral for credit support	1,211	3,042,109
Revenue fund	<u>2,564</u>	<u>17</u>
Total other restricted funds	<u>3,775</u>	<u>3,042,126</u>
Total cash and cash equivalents	<u>\$ 12,715,944</u>	<u>\$ 14,823,285</u>

NOTE 4. PREPAID GAS SUPPLY

The Agency's prepaid gas supply is presented below:

	December 31,	
	2022	2021
Prepaid gas supply	\$ 136,783,269	\$ 158,958,581
Prepaid gas supply revenue	860,479	1,027,291
Total prepaid gas supply	137,643,748	159,985,872
Less: amounts due within one year	(25,193,326)	(22,342,124)
Total prepaid gas supply - noncurrent portion	<u>\$ 112,450,422</u>	<u>\$ 137,643,748</u>

The following summarizes prepaid gas supply activity for the year ended December 31, 2022:

	January 1, 2022	Terminations	Amortization	December 31, 2022
Prepaid gas supply	\$ 158,958,581	\$ -0-	\$ (22,175,312)	\$ 136,783,269
Prepaid gas supply revenue	1,027,291	-0-	(166,812)	860,479
Total prepaid gas supply	<u>\$ 159,985,872</u>	<u>\$ -0-</u>	<u>\$ (22,342,124)</u>	<u>\$ 137,643,748</u>

The following summarizes prepaid gas supply activity for the year ended December 31, 2021:

	January 1, 2021	Terminations	Amortization	December 31, 2021
Prepaid gas supply	\$ 178,596,039	\$ -0-	\$ (19,637,458)	\$ 158,958,581
Prepaid gas supply revenue	1,185,039	-0-	(157,748)	1,027,291
Total prepaid gas supply	<u>\$ 179,781,078</u>	<u>\$ -0-</u>	<u>\$ (19,795,206)</u>	<u>\$ 159,985,872</u>

The prepaid gas supply is the discounted NPV of the fixed monthly natural gas prices per million British Thermal Units (mmbtu) as specified in, and over the remaining term of, the Prepaid Agreement. The prepaid gas supply revenue is the discounted NPV of \$0.07 per mmbtu over the remaining term of the Prepaid Agreement.

NOTE 5. LONG-TERM DEBT

The Agency issued \$668.5 million of 2007 Series B Gas Project Revenue Bonds (Bonds) in May 2007 with variable interest rates, maturing July 2027.

The Agency's long-term debt is presented below:

	December 31,	
	2022	2021
2007 Series B Gas project revenue bonds, variable rates, 2023-2027	\$ 142,935,000	\$ 163,485,000
Less: amounts due within one year	<u>(22,865,000)</u>	<u>(20,550,000)</u>
Total long-term debt - net	<u>\$ 120,070,000</u>	<u>\$ 142,935,000</u>

The following summarizes long-term debt activity for the year ended December 31, 2022:

	January 1, 2022	Additions	Payments/ Amortizations	December 31, 2022
2007 Gas project revenue bonds	\$ 163,485,000	\$ -0-	\$ (20,550,000)	\$ 142,935,000
Total long-term debt	<u>\$ 163,485,000</u>	<u>\$ -0-</u>	<u>\$ (20,550,000)</u>	<u>\$ 142,935,000</u>

The following summarizes long-term debt activity for the year ended December 31, 2021:

	January 1, 2021	Additions	Payments/ Amortizations	December 31, 2021
2007 Gas project revenue bonds	\$ 181,935,000	\$ -0-	\$ (18,450,000)	\$ 163,485,000
Total long-term debt	<u>\$ 181,935,000</u>	<u>\$ -0-</u>	<u>\$ (18,450,000)</u>	<u>\$ 163,485,000</u>

The annual debt service requirements to maturity for the Bonds are as follows at December 31, 2022:

Year	Principal	Interest	Total
2023	\$ 22,865,000	\$ 5,905,895	\$ 28,770,895
2024	25,530,000	4,893,110	30,423,110
2025	28,295,000	3,764,547	32,059,547
2026	31,420,000	2,513,106	33,933,106
2027	<u>34,825,000</u>	<u>1,124,151</u>	<u>35,949,151</u>
Total	<u>\$ 142,935,000</u>	<u>\$ 18,200,809</u>	<u>\$ 161,135,809</u>

Interest in the preceding table includes interest requirements for fixed rate debt at their stated rates and variable rate debt covered by interest rate swaps at their fixed swap rate.

The Agency had pledged future net revenues to repay \$142.9 million and \$163.5 million at December 31, 2022 and 2021, respectively, for Bonds issued in May 2007. Proceeds from the Bonds were used to purchase the Gas Project from MSCG at a price of \$754.1 million with the remaining amounts used to fund the appropriate accounts for the Agency. The Bonds, payable through 2027, are secured solely by a pledge of and lien on the trust estate under the Indenture which includes bond proceeds, rights under the GSC, revenues, any termination payment and any investment income. Annual principal and interest payments on the Bonds are expected to require approximately 100 percent of the Agency's net revenues. The total principal and interest remaining to be paid on the Bonds was \$161.1 million and \$188.5 million at December 31, 2022

and 2021, respectively. Debt service payments on the Bonds are made quarterly on January 1, April 1, July 1 and October 1. Principal and interest paid was \$27.4 million and \$26.1 million for 2022 and 2021, respectively. Total net revenues were \$28.8 million and \$27.6 million for 2022 and 2021, respectively.

The ability of the Agency to pay related principal and interest payments associated with the Bonds is contingent upon the continued successful operation of the Gas Project. If the Prepaid Agreement were to terminate, a termination payment would be received into the trust estate from MSCG. The amount of the termination payment, together with the amounts required to be on deposit in certain funds and accounts held by the trustee, has been calculated to provide a sum sufficient to pay the redemption price of the Bonds upon early termination of the Prepaid Agreement. The amount of termination payment declines over time as MSCG performs its gas delivery obligations under the Prepaid Agreement. Agency Members are not obligated to pay debt service costs if the Gas Project is unable to operate pursuant to the Prepaid Agreement or if revenues generated by the Gas Project are insufficient to meet debt service obligations.

Terms of Debt Indenture. The debt indenture contains a provision that in an event of default, the holders of the majority of the debt outstanding are entitled to declare the outstanding amounts due immediately.

Interest Rate Swap Agreements - 2007 Series B Bonds.

The following summarizes the Agency's swap agreement at December 31, 2022:

Notional Amount	Agency Pays	Fixed Rate	Floating Rate	Termination Date	Credit Support Provider Credit Rating (S&P)
\$ 142,935,000	Fixed	4.304%	67% of LIBOR +.72%	07/01/27	A+

The following summarizes the Agency's swap agreement at December 31, 2021:

Notional Amount	Agency Pays	Fixed Rate	Floating Rate	Termination Date	Credit Support Provider Credit Rating (S&P)
\$ 163,485,000	Fixed	4.304%	67% of LIBOR +.72%	07/01/27	A+

The Agency has a variable-to-fixed interest rate swap agreement with a counterparty. The Agency pays the counterparty a fixed rate on the notional amount and receives a floating rate equal to 67 percent of the three month London Interbank Offered Rates (LIBOR) (3.74 percent and 0.13 percent for 2022 and 2021) plus an interest rate spread, as specified in the swap agreement. The total notional amount of the swap at December 31, 2022 and 2021 was \$142.9 million and \$163.5 million, respectively, and was equivalent to the outstanding principal balance on the Agency's Bonds. The swap is amortized over the life of the swap agreement in a manner corresponding to the principal repayment schedule of the Bonds. Early termination of the swap would occur upon termination of the Prepaid Agreement for any reason. Upon early termination, the swap would have no value to either party.

Variable Rate 2007 Series B Bonds. The Agency's variable rate Bonds bear interest at a quarterly rate of 3.23 percent at December 31, 2022.

NOTE 6. COMMITMENTS

Natural Gas Commodity Price Swap Agreement. The Agency has entered into a floating-to-fixed natural gas commodity price swap agreement (Gas Swap Agreement) with a counterparty for the purpose of fixing the variable price on the Agency's natural gas sales to SMUD under the GSC. The Agency pays an index-based natural gas price over the twenty-year period and receives a fixed natural gas price as specified in the Gas Swap Agreement, for notional quantities of natural gas at a pricing point corresponding to the daily contract quantity and the delivery point under the Prepaid Agreement. The Gas Swap Agreement terminates on May 31, 2027. The total notional amount of the Gas Swap Agreement remaining at December 31, 2022 was 14.0 million mmbtu. Presently, the Gas Swap Agreement is 8,675 mmbtu per calendar day, and this amount will change on June 1 of each remaining year of the Gas Swap Agreement and will range from 8,673 to 8,676 mmbtu per calendar day. Early termination of the Gas Swap Agreement would occur upon termination of the Prepaid Agreement for any reason whatsoever. Upon early termination, the Gas Swap Agreement would have no value to either party.

NOTE 7. CONTINGENCIES

General Contingencies. The Agency's ability to make principal and interest payments on its Bonds is contingent upon the continued delivery of natural gas to the Gas Project under the Prepaid Agreement. The Members are not obligated to make principal and interest debt service payments in the event the Gas Project does not operate and there are insufficient funds to pay the bondholders. The Agency expects that the natural gas will continue to be delivered as planned.

In the normal operation of business, the Agency is party to various claims, legal actions and complaints. Management and the Agency's legal counsel believe that there are no material loss contingencies that would have a material adverse impact on the financial position of the Agency.

Sacramento Municipal Utility District Financing Authority



Financial Statements
and Independent Auditors' Report
December 31, 2022 and 2021

**SACRAMENTO MUNICIPAL UTILITY DISTRICT FINANCING AUTHORITY
TABLE OF CONTENTS**

Independent Auditors' Report	1
Required Supplementary Information	
Management's Discussion and Analysis (Unaudited)	3
Basic Financial Statements	
Statements of Net Position	9
Statements of Revenues, Expenses and Changes in Net Position	11
Statements of Cash Flows	12
Notes to Financial Statements	
Note 1. Organization and Operations	14
Note 2. Summary of Significant Accounting Policies	15
Note 3. Accounting Change	18
Note 4. Assignment and Assumption Agreements	20
Note 5. Electric Utility Plant and Related Operating Agreements	21
Note 6. Cash, Cash Equivalents, and Investments	22
Note 7. Long-term Debt	23
Note 8. Accrued Decommissioning	24
Note 9. Insurance Programs	25
Note 10. Fair Value Measurements	25
Note 11. Commitments	26
Note 12. Contingencies	26

Independent Auditors' Report

To the Board of Directors of
Sacramento Municipal Utility District Financing Authority

Opinion

We have audited the accompanying financial statements of the Sacramento Municipal Utility District Financing Authority, a component unit of the Sacramento Municipal Utility District, as of and for the years ended December 31, 2022 and 2021, and the related notes to the financial statements, which collectively comprise the Sacramento Municipal Utility District Financing Authority's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Sacramento Municipal Utility District Financing Authority as of December 31, 2022 and 2021, and the changes in financial position and cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Sacramento Municipal Utility District Financing Authority and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Emphasis of Matter

As discussed in Note 3, the Sacramento Municipal Utility District Financing Authority adopted the provisions of GASB Statement No. 87, *Leases*, effective January 1, 2022. Accordingly, the accounting changes have been retroactively applied to the prior period presented. Our opinion is not modified with respect to this matter.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America; and for the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Sacramento Municipal Utility District Financing Authority's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Sacramento Municipal Utility District Financing Authority's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Sacramento Municipal Utility District Financing Authority's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings and certain internal control-related matters that we identified during the audit.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the required supplementary information, as listed in the table of contents be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.



Madison, Wisconsin
February 24, 2023

SACRAMENTO MUNICIPAL UTILITY DISTRICT FINANCING AUTHORITY
MANAGEMENT'S DISCUSSION AND ANALYSIS
(Unaudited)

Using this Financial Report

This annual financial report for Sacramento Municipal Utility District Financing Authority (Agency) consists of management's discussion and analysis and the financial statements, including notes to the financial statements. The basic Financial Statements consist of the Statements of Net Position, the Statements of Revenues, Expenses and Changes in Net Position and the Statements of Cash Flows.

The Agency's accounting records are maintained in accordance with Generally Accepted Accounting Principles for proprietary funds as prescribed by the Governmental Accounting Standards Board (GASB). The Agency's accounting records generally follow the Uniform System of Accounts for Public Utilities and Licensees prescribed by the Federal Energy Regulatory Commission.

Overview of the Financial Statements

The following discussion and analysis of the financial performance of the Agency provides an overview of the financial activities for the years ended December 31, 2022 and 2021. This discussion and analysis should be read in conjunction with the Agency's financial statements and accompanying notes, which follow this section.

The Statements of Net Position provide information about the nature and amount of resources and obligations at a specific point in time.

The Statements of Revenues, Expenses and Changes in Net Position report all of the Agency's revenues and expenses during the periods indicated.

The Statements of Cash Flows report the cash provided and used by operating activities, as well as other cash sources such as investment income and debt financing, and other cash uses such as payments for debt service and capital additions.

The Notes to Financial Statements provide additional detailed information to support the financial statements.

Nature of Operations

The Agency is a joint powers authority formed by the Sacramento Municipal Utility District (SMUD) and the Modesto Irrigation District. The Agency owns and operates the Cosumnes Power Plant Project (Project) and related facilities for electric power generation. The Project, which began commercial operations in 2006, is comprised of a 602 megawatt (MW) natural gas-fired combined cycle generation plant.

On October 26, 2021 the Agency entered into Assignment and Assumption Agreements (the Agreements) with the Central Valley Financing Authority (CVFA), Sacramento Cogeneration Authority (SCA), and Sacramento Power Authority (SPA). The Agreements transfer the assets and obligations, including ownership of the Carson Power Plant (Carson), Procter and Gamble Power Plant (Procter and Gamble), Campbell Power Plant (Campbell) and McClellan Power Plant (McClellan), (assigned Power Plants), to the Agency as of November 1, 2021.

Carson which began commercial operations in 1995, is comprised of a 68 MW natural gas-fired combined cycle cogeneration facility and a 42 MW natural gas-fired simple cycle peaking plant. Procter and Gamble which began commercial operations in 1997, is comprised of a 145 MW natural gas-fired combined cycle plant and a 50 MW natural gas-fired simple cycle peaking plant which was subsequently added and began commercial operations in 2001. Campbell which began commercial operations in 1997, is a 183 MW natural gas-fired combined-cycle cogeneration plant consisting of a combustion turbine generator (CTG) and a steam turbine generator (STG). McClellan is a 72 MW simple cycle Combustion Turbine and has been operating since 1986.

SMUD purchases all of the electricity produced by the Project and the assigned Power Plants pursuant to the Power Purchase Agreements (PPA) between SMUD and the Agency and the assigned Power Plants. The Agency has no employees and is obligated to reimburse SMUD for the actual costs of providing general and administrative services, water, fuel costs, and other costs paid by SMUD on the Agency's behalf.

The Agency's Commission is comprised of SMUD's Board of Directors. The Agency is a separate legal entity; however, due to the extent of its operational and financial relationship with SMUD, it is included in the financial statements of SMUD.

Financial & Operational Highlights

In 2022, the Agency's plant operator, Ethos Energy Power Plant Services, LLC (Ethos), continued to perform quarterly offline gas turbine water washes and inspections as part of standard maintenance protocols at the Project and at the assigned Power Plants. These outages and inspections have been an integral part of the Project's and the assigned Power Plants' successful performances which include ratings from the Institute of Electrical and Electronics Engineers (IEEE) for availability and reliability.

The Project obtained an IEEE Availability rating of 59.90 percent. The abnormally low rating was due to a fault in the stator ground to the STG discovered during the plant's performance testing conducted after the double major outage on June 5, 2022. The stator failure put the plant as unavailable through August 3; however, the plant was able to be configured to run in a 2x0 configuration (without the STG) during the major heat wave event in early September. The STG remains out of service as of December 31, 2022. The Agency obtained an IEEE Reliability rating of 100 percent and an overall capacity factor of 22.70 percent. The plant completed CTG #3 major overhaul as well as major capital project upgrades to the Heat Recovery Steam Generators #2 and #3.

Carson obtained an IEEE Availability rating of 90.52 percent, an IEEE Reliability rating of 99.94 percent, and a successful call-up ratio for the simple cycle unit of 100 percent. The plant completed CTG (engine 185-117) major overhaul of the Hot Gas Path Section.

Procter and Gamble obtained an IEEE Availability rating of 94.29 percent, an IEEE Reliability rating of 99.86 percent and a successful call-up ratio for the simple cycle unit of 100 percent. The plant completed Chiller 1A replacement.

A Lease Engine Program extension of 3 years was negotiated with General Electric (GE), at no cost to the Agency, due to previous engine repair delays at GE's repair shop. The Lease Engine Program covers engines at Carson and Procter and Gamble.

Campbell obtained an IEEE Availability rating of 99.99 percent, an IEEE Reliability rating of 99.99 percent and a unit capacity factor of 62.87 percent.

McClellan obtained an IEEE Availability rating of 95.39 percent, an IEEE Reliability rating of 99.31 percent and an overall capacity factor of 0.56 percent.

FINANCIAL POSITION

The following table summarizes the financial position as of December 31 (in thousands).

CONDENSED STATEMENT OF NET POSITION

	2022	2021 *	2020
Assets			
Electric utility plant - net	\$ 309,606	\$ 309,574	\$ 207,058
Current assets	109,011	133,673	60,107
Noncurrent assets	682	789	892
Total assets	419,299	444,036	268,057
Deferred outflows of resources	3,258	3,268	1,829
Total assets and deferred outflows of resources	<u>\$ 422,557</u>	<u>\$ 447,304</u>	<u>\$ 269,886</u>
Liabilities			
Long-term debt - net	\$ 95,553	\$ 99,421	\$ 113,152
Current liabilities	44,332	49,507	36,819
Noncurrent liabilities	15,215	14,760	-0-
Total liabilities	155,100	163,688	149,971
Net position			
Net investment in capital assets	207,660	194,185	84,835
Restricted	2,264	5,725	5,450
Unrestricted	57,533	83,706	29,630
Total net position	<u>267,457</u>	<u>283,616</u>	<u>119,915</u>
Total liabilities and net position	<u>\$ 422,557</u>	<u>\$ 447,304</u>	<u>\$ 269,886</u>

* Includes the assets and obligations of CVFA, SCA and SPA as a result of the transfer of operations on November 1, 2021 and restated in 2022 due to the implementation of GASB 87, Leases.

TOTAL ASSETS & DEFERRED OUTFLOWS OF RESOURCES

Total assets in 2022 decreased \$24.7 million or 5.6% over 2021, primarily due to the following:

- A decrease of \$24.9 million in unrestricted cash and cash equivalents primarily due to a \$35.0 million distribution to Member.
- A decrease of \$3.7 million in restricted cash is primarily due to a lower reserve for long-term debt due within one year.
- An increase of \$3.8 million in power sales to Member receivable is primarily due to the fuel portion of the PPA billings in December.
- A decrease of \$2.0 million in materials and supplies primarily due to the issuance of inventory used for the CTG #3 major overhaul.
- An increase of \$2.2 million in prepayments primarily due to advance payments for the CTG #2 major overhaul at the Project and the CTG overhaul at Campbell scheduled to be performed in 2023.

Total assets in 2021 increased \$176.0 million or 65.6% over 2020, primarily due to the transfer of operations and ownership of the assigned Power Plants on November 1, 2021. The Agency recognized \$111.3 million in electric utility plant - net, \$38.0 million in unrestricted cash and cash equivalents, \$17.3 million in power sales to Member receivables, \$11.3 million in materials and supplies, and \$4.0 million in other assets as the result of the transfer (see Note 4).

TOTAL LIABILITIES & NET POSITION

Total liabilities in 2022 decreased \$8.6 million or 5.2% over 2021, primarily due to the following:

- A decrease of \$13.5 million in long-term debt primarily due to a \$9.6 million reduction to portion of long-term debt due within one year.
- An increase of \$10.9 million in accounts payable primarily due to a \$8.8 million increase in capital expenses and a \$2.0 million increase in reimbursable expenses due to Ethos at December 31, 2022.
- A decrease of \$6.2 million in payable due to Member primarily due to the fuel portion of the PPA billings in December.

Net position in 2022 decreased \$16.2 million or 5.7% over 2021, primarily due to a \$35.0 million distribution to Member offset by a \$13.5 million increase to net investment in capital assets portion of net assets resulting from a reduction in long-term debt.

Total liabilities in 2021 increased \$13.7 million or 9.1% over 2020, primarily due to the transfer of operations and ownership of the assigned Power Plants and the implementation of GASB 87, Leases (GASB 87). The Agency recognized \$3.3 million in accounts payable, \$8.5 million in payable due to Member, and \$8.6 million in accrued decommissioning as a result of the transfer (see Note 4). The Agency recognized \$6.1 million lease liability and accrued interest in 2021 as a result of the implementation of GASB 87.

Net position in 2021 increased \$163.7 million or 136.5% over 2020, primarily due to the transfer of operations of the assigned Power Plants in 2021.

RESULTS OF OPERATIONS

The following table summarizes the operating results for the years ended December 31 (in thousands).

CONDENSED STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

	2022	2021 *	2020
Operating revenues	\$ 115,823	\$ 143,050	\$ 141,874
Operating expenses	(94,436)	(137,234)	(137,415)
Operating income	21,387	5,816	4,459
Interest income	579	51	179
Interest on debt	(3,051)	(3,386)	(3,669)
Lease interest	(74)	(78)	-0-
Other income (expense)	-0-	-0-	(1)
Change in net position			
before distributions and special item	18,841	2,403	968
Distributions to Member	(35,000)	-0-	-0-
Special item	-0-	161,298	-0-
Change in net position	(16,159)	163,701	968
Net position - beginning of year	283,616	119,915	118,947
Net position - end of year	<u>\$ 267,457</u>	<u>\$ 283,616</u>	<u>\$ 119,915</u>

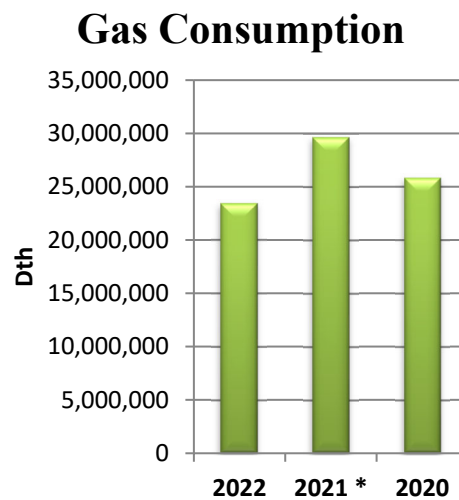
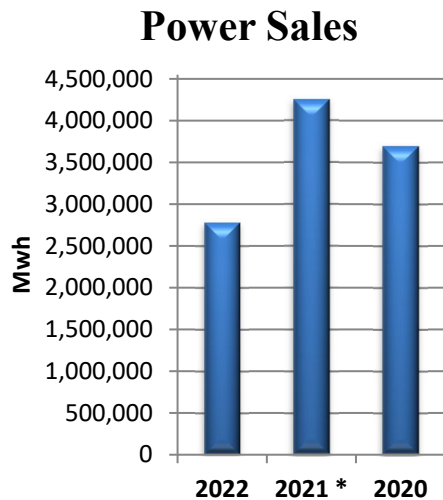
* Includes the assets and obligations of CVFA, SCA and SPA as a result of the transfer of operations on November 1, 2021 and restated in 2022 due to the implementation of GASB 87, Leases.

OPERATING REVENUES

Total operating revenues were \$115.8 million for 2022, a decrease of \$27.2 million or 19.0 percent over 2021. The power megawatt hour (MWh) sales decreased 34.6 percent and gas dekatherm (Dth) consumption decreased 21.1 percent compared to 2021. The Agency's power sales are determined monthly, based on a formula defined in the PPA, which is driven by the Agency's actual cost of operations including debt service and capital costs. In 2022, less revenue was needed due to lower fuel usage and higher gas sales by Member as a result of the Project's STG unplanned outage, offset by higher operator reimbursable costs, capital expenses, overhaul costs and other operator costs.

Total operating revenues were \$143.1 million for 2021, an increase of \$1.2 million or 1.0 percent over 2020. The power MWh sales increased 15 percent and gas Dth consumption increased 14.8 percent. The increase in operating revenues is primarily due to the transfer of operations and ownership of the assigned Power Plants on November 1, 2021. The Agency recognized \$1.8 million in steam sales and digester gas revenues as a result of the transfer of operations.

The following charts show power sales and gas consumption in 2022, 2021, and 2020.



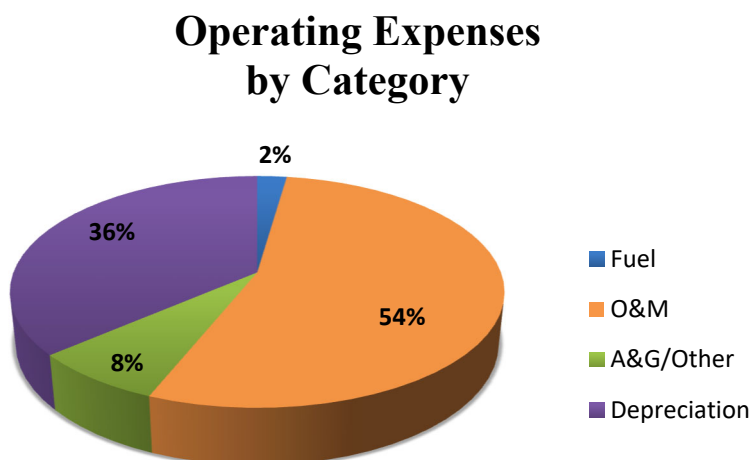
* Includes Power Sales and Gas Consumption of CVFA, SCA and SPA for November and December as a result of the transfer of operations on November 1.

OPERATING EXPENSES

Total operating expenses were \$94.4 million for 2022, a decrease of \$42.8 million or 31.2 percent over 2021, primarily due to the following:

- A decrease of \$96.5 million in fuel expense primarily due to the fault in the stator ground to the STG at the Project resulting from the STG being offline for most of year.
- An increase of \$19.3 million in operations expense, \$13.4 million in maintenance expense, \$3.6 million in administrative and general expense, and \$17.3 million in depreciation and amortization expenses primarily due to the Agency operating the assigned Power Plants for 12 months in 2022 compared to 2 months in 2021. The increase in maintenance expense is due to the major overhaul of the STG and CTG #3 at the Project.

The following chart illustrates 2022 operating expenses by expense classification and percentage of the total.



Total operating expenses were \$137.2 million for 2021, a decrease of \$0.2 million or 0.13 percent over 2020, primarily due to the following:

- A decrease of \$6.6 million in fuel expense due to lower fuel prices of \$21.8 million, offset by higher fuel volume of \$15.2 million. The increase in volume is a combination of the Agency's and the assigned Power Plants.
- An increase of \$3.7 million in operations expense primarily due to the higher operator reimbursables as a result of the transfer of operations.
- An increase of \$1.5 million in depreciation and amortization expense primarily due to the unitization of the Zero Liquid Discharge Upgrade at the Project and the implementation of GASB 87.

Requests for Information

For more information about the Sacramento Municipal Utility District Financing Authority, visit our website at www.smud.org or contact us at customerservices@smud.org.

SACRAMENTO MUNICIPAL UTILITY DISTRICT FINANCING AUTHORITY
STATEMENTS OF NET POSITION

	December 31,	
	2022	2021 (restated)
ASSETS		
ELECTRIC UTILITY PLANT		
Plant in service	\$ 957,039,131	\$ 946,971,480
Lease assets	6,341,350	6,341,350
Less accumulated depreciation and amortization	(678,033,514)	(645,557,842)
Plant in service - net	285,346,967	307,754,988
Construction work in progress	24,258,810	1,818,920
Total electric utility plant - net	309,605,777	309,573,908
RESTRICTED ASSETS		
Debt service funds	4,507,714	8,254,654
Less current portion	(4,507,714)	(8,254,654)
Total restricted assets	-0-	-0-
CURRENT ASSETS		
Cash and cash equivalents:		
Unrestricted cash and cash equivalents	36,453,677	61,375,152
Restricted cash and cash equivalents	4,507,714	8,254,654
Receivables:		
Power sales to Member	42,391,487	38,597,316
Steam sales	1,334,540	1,550,821
Accrued interest and other	214,490	19,614
Materials and supplies	17,483,658	19,489,211
Prepayments	6,520,884	4,281,645
Regulatory costs recovered within one year	104,416	104,416
Total current assets	109,010,866	133,672,829
NONCURRENT ASSETS		
Regulatory costs for future recovery	678,702	783,118
Other	3,693	6,328
Total noncurrent assets	682,395	789,446
TOTAL ASSETS	419,299,038	444,036,183
DEFERRED OUTFLOWS OF RESOURCES		
Unamortized bond losses	1,191,631	1,492,952
Deferred asset retirement obligation outflow	2,066,481	1,774,505
TOTAL DEFERRED OUTFLOWS OF RESOURCES	3,258,112	3,267,457
TOTAL ASSETS AND DEFERRED OUTFLOWS OF RESOURCES	\$ 422,557,150	\$ 447,303,640

The accompanying notes are an integral part of these financial statements.

SACRAMENTO MUNICIPAL UTILITY DISTRICT FINANCING AUTHORITY
STATEMENTS OF NET POSITION

	December 31,	
	2022	2021 (restated)
LIABILITIES AND NET POSITION		
LONG-TERM DEBT - net	\$ 95,553,307	\$ 99,420,892
CURRENT LIABILITIES		
Accounts payable	20,255,970	9,392,167
Lease liability due within one year	280,026	271,788
Payable due to Member	19,632,858	25,786,053
Long-term debt due within one year	1,845,000	11,450,000
Accrued interest on debt	2,243,375	2,529,625
Accrued interest on leases	74,259	77,480
Total current liabilities	44,331,488	49,507,113
NONCURRENT LIABILITIES		
Accrued decommissioning	9,756,365	9,020,763
Lease liability	5,458,892	5,738,918
Total noncurrent liabilities	15,215,257	14,759,681
TOTAL LIABILITIES	155,100,052	163,687,686
NET POSITION		
Net investment in capital assets	207,660,183	194,185,262
Restricted	2,264,339	5,725,029
Unrestricted	57,532,576	83,705,663
TOTAL NET POSITION	267,457,098	283,615,954
COMMITMENTS AND CONTINGENCIES (Notes 11 and 12)		
TOTAL LIABILITIES AND NET POSITION	\$ 422,557,150	\$ 447,303,640

The accompanying notes are an integral part of these financial statements.

SACRAMENTO MUNICIPAL UTILITY DISTRICT FINANCING AUTHORITY
STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

	Years Ended December 31,	
	2022	2021 (restated)
OPERATING REVENUES		
Power sales to Member	\$ 105,955,881	\$ 141,244,680
Gas sales to Member	343,221	435,925
Steam sales	8,665,424	1,334,572
Other	858,893	34,912
Total operating revenues	115,823,419	143,050,089
OPERATING EXPENSES		
Fuel	2,142,506	98,592,034
Operations	35,225,130	15,921,191
Maintenance	15,606,915	2,248,540
Administrative and general	7,031,906	3,383,959
Depreciation and amortization	34,324,718	16,984,094
Regulatory amounts collected in rates	104,416	104,416
Total operating expenses	94,435,591	137,234,234
OPERATING INCOME	21,387,828	5,815,855
NON-OPERATING REVENUES (EXPENSES)		
Interest income	579,311	50,971
Interest on debt	(3,051,736)	(3,386,296)
Lease interest	(74,259)	(77,480)
Total non-operating revenues (expenses)	(2,546,684)	(3,412,805)
CHANGE IN NET POSITION BEFORE DISTRIBUTIONS AND SPECIAL ITEM	18,841,144	2,403,050
Distributions to Member	(35,000,000)	-0-
SPECIAL ITEM		
Net position from transferred operations (Note 4)	-0-	161,298,200
Total special item	-0-	161,298,200
CHANGE IN NET POSITION	(16,158,856)	163,701,250
NET POSITION - BEGINNING OF YEAR	283,615,954	119,914,704
NET POSITION - END OF YEAR	\$ 267,457,098	\$ 283,615,954

The accompanying notes are an integral part of these financial statements.

SACRAMENTO MUNICIPAL UTILITY DISTRICT FINANCING AUTHORITY
STATEMENTS OF CASH FLOWS

	Years Ended December 31,	
	2022	2021 (restated)
CASH FLOWS FROM OPERATING ACTIVITIES		
Receipts from power sales to Member	\$ 102,504,931	\$ 146,864,388
Receipts from steam sales and other	9,740,598	887,893
Payments to Member	(18,822,279)	(105,755,862)
Payments to vendors	(45,060,738)	(16,460,345)
Net cash provided by operating activities	48,362,512	25,536,074
CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES		
Distribution to Member	(35,000,000)	-0-
Cash received from transfer of operations	-0-	37,998,934
Net cash provided by (used in) noncapital financing activities	(35,000,000)	37,998,934
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES		
Construction expenditures	(25,556,844)	(992,552)
Repayment of long-term debt	(11,450,000)	(10,900,000)
Interest payments on long-term debt	(5,059,250)	(5,604,250)
Lease payments	(349,268)	(330,644)
Net cash used in capital and related financing activities	(42,415,362)	(17,827,446)
CASH FLOWS FROM INVESTING ACTIVITIES		
Interest received	384,435	56,472
Net cash provided by investing activities	384,435	56,472
Net increase (decrease) in cash and cash equivalents	(28,668,415)	45,764,034
Cash and cash equivalents - beginning of the year	69,629,806	23,865,772
Cash and cash equivalents - end of the year	\$ 40,961,391	\$ 69,629,806
CASH AND CASH EQUIVALENTS INCLUDED IN:		
Unrestricted cash and cash equivalents	\$ 36,453,677	\$ 61,375,152
Restricted cash and cash equivalents	4,507,714	8,254,654
Cash and cash equivalents - end of the year	\$ 40,961,391	\$ 69,629,806

The accompanying notes are an integral part of these financial statements.

SACRAMENTO MUNICIPAL UTILITY DISTRICT FINANCING AUTHORITY
STATEMENTS OF CASH FLOWS

	Years Ended December 31,	
	2022	2021 (restated)
RECONCILIATION OF OPERATING INCOME TO		
NET CASH PROVIDED BY OPERATING ACTIVITIES		
Operating income	\$ 21,387,828	\$ 5,815,855
Adjustments to reconcile operating income to net cash provided by operating activities:		
Depreciation and amortization	34,324,718	16,984,094
Regulatory amortization	104,416	104,416
Asset retirement obligation amortization	443,626	57,783
Changes in operating assets and liabilities:		
Receivables	(3,577,890)	4,702,192
Other assets	(231,051)	(1,467,039)
Payables and accruals	(4,089,135)	(661,227)
Net cash provided by operating activities	\$ 48,362,512	\$ 25,536,074
SUPPLEMENTAL DISCLOSURE OF NONCASH CAPITAL		
AND RELATED FINANCING ACTIVITIES		
Net amortization of debt related (expenses) and premiums	\$ 1,721,264	\$ 1,945,454
Net plant received from transfer of operations	-0-	111,271,467
Asset retirement obligation acquired from transfer of operations	-0-	8,633,060
Construction expenditures included in accounts payable	9,707,161	894,410

The accompanying notes are an integral part of these financial statements.

SACRAMENTO MUNICIPAL UTILITY DISTRICT FINANCING AUTHORITY
NOTES TO FINANCIAL STATEMENTS

NOTE 1. ORGANIZATION AND OPERATIONS

The Sacramento Municipal Utility District Financing Authority (Agency) is a joint powers authority (JPA) formed by the Sacramento Municipal Utility District (SMUD) and the Modesto Irrigation District (MID) pursuant to the California Government Code. The purpose of the Agency is to own and operate the Cosumnes Power Plant Project (Project) and related facilities for electric power generation. The Project, which began commercial operations in February 2006, is comprised of a 602 megawatt (MW) natural gas-fired combined cycle generation plant. The Project is situated on approximately 38 acres of land adjacent to SMUD's decommissioned nuclear power plant. The land is owned by SMUD and leased to the Agency.

On October 26, 2021, the Agency entered into Assignment and Assumption Agreements (the Agreements) with the Central Valley Financing Authority (CVFA), Sacramento Cogeneration Authority (SCA), and Sacramento Power Authority (SPA). The Agreements transfer the assets and obligations, including ownership of the Carson Power Plant (Carson), Procter and Gamble Power Plant (Procter and Gamble), Campbell Power Plant (Campbell) and McClellan Power Plant (McClellan), (assigned Power Plants), to the Agency as of November 1, 2021 (see Note 4).

Carson, previously owned and operated by CVFA, a JPA formed by SMUD and the Sacramento Regional County Sanitation District (SRCSD), began commercial operations in 1995 and is comprised of a 68 MW natural gas-fired combined cycle cogeneration facility and a 42 MW natural gas-fired simple cycle peaking plant. Carson is situated on approximately ten acres of land adjacent to the SRCSD sewage treatment plant. The land is owned by SRCSD and leased to the Agency.

Procter and Gamble, previously owned and operated by SCA, a JPA formed by SMUD and the Agency, began commercial operations in 1997 and is comprised of a 145 MW natural gas-fired combined cycle plant and a 50 MW natural gas-fired simple cycle peaking plant which was subsequently added and began commercial operations in 2001. Procter and Gamble is situated on approximately eight acres of land owned by the Agency, which is adjacent to The Procter & Gamble Manufacturing Company (P&G) plant in Sacramento.

Campbell, previously owned and operated by SPA, a JPA formed by SMUD and the Agency, began commercial operations in 1997 and is a 183 MW natural gas-fired combined-cycle cogeneration plant consisting of a combustion turbine generator and a steam turbine generator. Campbell is situated on approximately six acres of land which is owned by SMUD and leased to the Agency.

McClellan, previously owned and operated by SPA, is a 72 MW simple cycle combustion turbine and has been operating since 1986. McClellan is located on the United States Air Force property at the former McClellan Air Force Base in Sacramento. The land is leased by SMUD and subleased to the Agency.

The Agency has no employees. The Project and the assigned Power Plants are operated by Ethos Energy Power Plant Services, LLC (Ethos) under the terms of the Operations and Maintenance Agreements.

Pursuant to the Power Purchase Agreements (PPA) with SMUD and the Agency, SMUD purchases, on a "take-or-pay" basis, all capacity, energy and environmental attributes of the Project and assigned Power Plants. The Agency is obligated to reimburse SMUD for the actual costs of providing general and administrative services, fuel costs, water and other costs paid by SMUD on the Agency's behalf. The Agency paid SMUD \$11.8 million in 2022 and \$101.4 million in 2021.

Carson provides steam to SRCSD's adjacent sewage treatment plant pursuant to the Long-Term Commodity Agreement. Carson also provides steam and electricity for the refrigeration process of the Glacier Ice facility pursuant to the Thermal Energy Sales Agreement. The primary fuel for Carson is a mixture of natural gas and digester gas from SRCSD's sewage treatment plant. Presently, digester gas represents three percent of the fuel used by the Carson and the remaining amount is sold to SMUD.

The Agency sells steam to P&G pursuant to a Steam Sales Agreement, which was assigned to SCA from SMUD.

SMUD is entitled to all rights and property of the Project and the assigned Power Plants in the event of termination of the JPA agreement. Neither MID nor SRCSD has any obligation to make contributions or advances to the Agency. The JPA agreement will remain in effect until terminated by a supplemental written agreement of the parties; provided, that in no event shall the JPA agreement terminate while any contracts between the Agency and either of the parties or other parties are in effect, or while any bonds or notes of the Agency are outstanding. Project revenues and the subsequent payments of principal and interest related to the Agency's long-term debt are not dependent upon the continued successful operation of the Project. SMUD is required to make payments in an amount sufficient to pay principal and interest and all other payments required to be made under the Indenture of Trust (Indenture), dated June 1, 2015. Neither MID nor SMUD has any obligation or liability to the Agency beyond that specifically provided for in the JPA agreement or the Project agreements.

The Agency's Commission is comprised of SMUD's Board of Directors. The Agency is a separate legal entity; however, it is included in the financial statements of SMUD as a component unit because of the extent of its operational and financial relationships with SMUD.

NOTE 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Method of Accounting. The accounting records of the Agency are maintained in accordance with Generally Accepted Accounting Principles for proprietary funds as prescribed by the Governmental Accounting Standards Board (GASB). The Agency's accounting records generally follow the Uniform System of Accounts for Public Utilities and Licensees prescribed by the Federal Energy Regulatory Commission. The financial statements are reported using the economic resources measurement focus and the accrual basis of accounting. Revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of related cash flows. Electric revenues and costs that are directly related to generation of electricity and steam are reported as operating revenues and expenses. All other revenues and expenses are reported as non-operating revenues and expenses.

Use of Estimates. The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America (U.S.) requires management to make estimates and assumptions that affect the reported amounts of assets, deferred outflows of resources, liabilities, revenues and expenses. Actual results could differ from those estimates.

Plant in Service. The Agency generally computes depreciation on Electric Utility Plant on a straight-line basis using five years for software and the remaining life of the JPA for all other capital assets. The costs of replacement units are capitalized. Major overhaul parts are depreciated over their estimated useful lives, ranging from 4 to 24 years. Repair and maintenance costs are charged to expense. When the Agency retires portions of its Electric Utility Plant, retirements are recorded against Accumulated Depreciation and the retired portion of Electric Utility Plant is removed from Plant in Service. Capital assets are generally defined by the Agency as tangible assets with an initial, individual cost of more than five thousand dollars and an estimated useful life in excess of two years.

Leases. The Agency implemented Statement of Governmental Accounting Standards (SGAS) No. 87, “*Leases*” (GASB No. 87) in 2022 (see Note 3). Leases are contracts that convey control of the right to use another entity’s nonfinancial asset as specified for a period of time in an exchange or exchange-like transaction without the transfer of ownership of the asset. The lease term is the period of time where there is a noncancellable right to use the underlying asset. The Agency only has lessee contracts.

For lessee contracts, lease assets and liabilities are reported at present value using the Agency’s incremental borrowing rate in the Statements of Net Position. The lease assets are amortized over the shorter of the lease term or the useful life of the underlying asset. The amortization of the discount for lessee contracts is recorded as Accrued interest on leases in the Statements of Net Position with the offset to Lease interest expense in the Statements of Revenues, Expenses and Changes in Net Position.

Restricted Assets. The Agency’s restricted assets are comprised of cash, which is limited for specific purposes pursuant to the Indenture requirements. The Indenture specifies the flow of cash into the various Agency funds and dictates when they may become unrestricted.

Cash and Cash Equivalents. Cash and cash equivalents include all debt instruments purchased with an original maturity of 90 days or less and all investments in the Local Agency Investment Fund (LAIF), and money market funds. LAIF has an equity interest in the State of California (State) Pooled Money Investment Account (PMIA). PMIA funds are on deposit with the State’s Centralized Treasury System and are managed in compliance with the California Government Code, according to a statement of investment policy which sets forth permitted investment vehicles, liquidity parameters and maximum maturity of investments.

Receivable from Member. The Agency records as a Receivable from Member the amounts due from SMUD for the purchase of power generated by the Project and assigned Power Plants.

Steam Sales Receivable. The Agency records a steam sales receivable for amounts due from Procter & Gamble Manufacturing Company for the sale and delivery of steam.

Materials and Supplies. Materials and supplies are stated at average cost, which approximates the first-in, first-out method.

Prepayments. The Agency’s prepayments consist of an advance payment for inventory, property insurance, leases and permits. The Agency pays for property insurance, leases and permits annually in advance. These prepayments are recognized as expenses in the month the actual costs are incurred.

Other Noncurrent Assets. Other Noncurrent Assets is comprised of emission credits.

Regulatory Deferrals. As a regulated entity, the Agency’s financial statements are prepared in accordance with GASB Statement No. 62, “*Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989 Financial Accounting Standards Board and American Institute of Certified Public Accountants Pronouncements*,” which require that the effects of the rate making process be recorded in the financial statements. Accordingly, certain expenses and credits normally reflected in the Change in Net Position as incurred, are recognized when included in rates and recovered from, or refunded to, SMUD through the PPA. The Agency records regulatory assets and credits to reflect rate-making actions of the Commission. The account includes the unamortized debt issuance costs of previously issued bonds of the Agency. The regulatory asset is amortized using the straight-line method over the remaining life of the associated bonds and recorded in Regulatory Amounts Collected in Rates in the Statements of Revenues, Expenses and Changes in Net Position.

Deferred Outflow of Resources. A deferred outflow of resources represents a consumption of net position that applies to a future period and will not be recognized as an outflow of resources (expense) until that future time.

Gains and Losses on Bond. Gains and losses resulting from bond refundings are included in Deferred outflows and Deferred inflows of resources and amortized as a part of Interest on debt, over the shorter of the life of the refunded debt or the new debt using the effective interest method, in the Statements of Revenues, Expenses and Changes in Net Position.

Payable to Member. The Agency records as a Payable to Member the amounts due to SMUD for general and administrative services, water, fuel costs, and other costs paid by SMUD on the Agency's behalf.

Asset Retirement Obligation (ARO). Under SGAS No. 83, "*Certain Asset Retirement Obligations*," the Agency has a legal obligation to decommission the Carson facility. The Agency records the ARO as Accrued decommissioning and a corresponding Deferred asset retirement obligation outflows in the Statements of Net Position. The Deferred asset retirement obligation outflows is amortized over the remaining useful life of the Carson facility and included as Operating Expenses in the Statements of Revenues, Expenses and Changes in Net Position (see Note 8).

Net Position. The Agency classifies its Net Position into three components as follows:

- Net investment in capital assets - This component of net position consists of capital assets, net of accumulated depreciation, reduced by the outstanding debt balances, net of unamortized debt expenses. Deferred outflows of resources that are attributable to the acquisition, construction or improvement of those assets or related debt are also included.
- Restricted - This component of net position consists of assets with constraints placed on their use, either externally or internally. Constraints include those imposed by debt indentures (excluding amounts considered in net capital, above), grants or laws and regulations of other governments, by law through constitutional provisions or enabling legislation, or by the Commission. These restricted assets are reduced by liabilities related to those assets.
- Unrestricted - This component of net position consists of net amount of the assets, deferred outflows of resources and liabilities that do not meet the definition of "Net investment in capital assets" or "Restricted."

Operating Revenues. Power sales to Member are recorded as revenues when the electricity is delivered. Gas sales to Member, Steam sales and rent income on subleased property are recorded when earned.

Operating Expenses. Operating expenses include the cost of sales and services, administrative expenses and depreciation on capital assets and are recorded when incurred.

Distributions to Member. Amounts paid to SMUD from surplus funds are recorded as Distributions to Member.

Special Item. The transferred net positions of the assigned Power Plants are reported as a special item.

Subsequent Events. Subsequent events for the Agency have been evaluated through February 24, 2023, which is the date that the financial statements were available to be issued.

Reclassification. Certain amounts in the 2021 Financial Statements have been reclassified in order to conform to the 2022 presentation.

Recent Accounting Pronouncements, adopted. In April 2022, GASB issued SGAS No. 99, "*Omnibus 2022*" (GASB No. 99). This statement addresses a variety of topics and is effective for the Agency in 2022, 2023, or 2024 depending on the requirement. The Agency incorporated the clarifications related to leases contained in GASB No. 99 that were effective in early 2023, during its implementation of GASB No. 87 (see Note 3). The Agency is currently assessing the financial impact of adopting the remaining topics in this statement that are effective in 2023 and 2024.

Recent Accounting Pronouncements, not yet adopted. In March 2020, GASB issued SGAS No. 94, *“Public-Private and Public-Public Partnerships and Availability Payment Arrangements”* (GASB No. 94). The primary objective of this Statement is to provide guidance for accounting and financial reporting related to public-private and public-public partnership arrangements (PPPs) and availability payment arrangements (APAs). A PPP is an arrangement in which a government (the transferor) contracts with an operator (a governmental or nongovernmental entity) to provide public services by conveying control of the right to operate or use a nonfinancial asset, such as infrastructure or other capital asset (the underlying PPP asset), for a period of time in an exchange or exchange-like transaction. An APA is an arrangement in which a government compensates an operator for services that may include designing, constructing, financing, maintaining, or operating an underlying nonfinancial asset for a period of time in an exchange or exchange-like transaction. This statement is effective for the Agency in 2023. The Agency is currently assessing the financial impact of adopting this statement but does not expect it to be material.

In May 2020, GASB issued SGAS No. 96, *“Subscription-Based Information Technology Arrangements”* (GASB No. 96). This statement provides guidance on the accounting and financial reporting for subscription-based information technology arrangements (SBITAs) for governments. The statement (1) defines a SBITA as a contract that conveys control of the right to use another party’s information technology software, alone or in combination with tangible capital assets, as specified in the contract for a period of time in an exchange or exchange-like transaction; (2) establishes that a SBITA results in a right-to-use subscription asset and a corresponding subscription liability; (3) provides the capitalization criteria for outlays other than subscription payments, including implementation costs of a SBITA; and (4) requires note disclosures regarding a SBITA. To the extent relevant, the standards for SBITAs are based on the standards established in GASB No. 87, *Leases*, as amended. This statement is effective for the Agency in 2023. The Agency is currently assessing the financial statement impact of adopting this statement.

In June 2022, GASB issued SGAS No. 100, *“Accounting Changes and Error Corrections - an amendment of GASB Statement No. 62”* (GASB No. 100), to enhance accounting and financial reporting requirements for accounting changes and error corrections. The statement defines accounting changes and sets forth requirements for reporting changes and error corrections in the financial statements. In addition, the statement contains requirements for disclosure in notes to financial statements of information about accounting changes and error corrections. Furthermore, for periods that are earlier than those included in the financial statements, information presented in required supplementary information and supplementary information should be restated for error corrections, but not for changes in accounting principles. This statement is effective for the Agency in 2024. The Agency is currently assessing the financial statement impact of adopting this statement.

NOTE 3. ACCOUNTING CHANGE

In June 2017, GASB issued GASB No. 87, to better meet the information needs of financial statement users by improving accounting and financial reporting for leases by governments. The statement requires recognition of certain lease assets and liabilities for leases that previously were classified as operating leases and recognized as inflows of resources or outflows of resources based on the payment provisions of the contract. GASB No. 87 establishes a single model for lease accounting based on the foundational principle that leases are financings of the right to use an underlying asset. Under GASB No. 87, a lessee is required to recognize a lease liability and an intangible right-to-use lease asset, and a lessor is required to recognize a lease receivable and a deferred inflow of resources. The Agency implemented GASB No. 87 in 2022, retroactive to the beginning of 2021. The Agency has assessed whether its leases meet the requirements of GASB No. 87. The Agency only has lessee contracts. The implementation impacted the Statements of Net Position when the liabilities and assets were recorded. The implementation also impacted the Statements of Revenues, Expenses and Changes in Net Position and the Statements of Cash Flows as lease expense was also recorded. Net Position was reduced by \$0.2 million for 2021 due to the restatement.

The Agency has restated amounts of the affected balances within the financial statements for the period ended December 31, 2021 as follows:

STATEMENTS OF NET POSITION

	December 31,	
	<u>2021 (restated)</u>	<u>2021</u>
Electric Utility Plant		
Lease assets	\$ 6,341,350	\$ -0-
Less accumulated depreciation and amortization	(645,557,842)	(645,198,955)
Current Liabilities		
Lease liability due within one year	271,788	-0-
Accrued interest on leases	77,480	-0-
Noncurrent Liabilities		
Lease liability	5,738,918	-0-
Net Position		
Net investment in capital assets	194,185,262	194,213,505
Unrestricted	83,705,663	83,783,143

STATEMENTS OF REVENUE, EXPENSES AND CHANGES IN NET POSITION

	Year Ended December 31,	
	<u>2021 (restated)</u>	<u>2021</u>
Operating Expenses		
Operations	\$ 15,921,191	\$ 16,251,835
Depreciation and amortization	16,984,094	16,625,207
Operating Income	5,815,855	5,844,098
Non-Operating Revenues (Expenses)		
Lease interest	(77,480)	-0-
Change in Net Position Before Distributions and Special Item	2,403,050	2,508,773
Change in Net Position	163,701,250	163,806,973
Net Position - End of Year	283,615,954	283,721,677

STATEMENTS OF CASH FLOWS

	Year Ended December 31,	
	<u>2021 (restated)</u>	<u>2021</u>
Cash Flows from Operating Activities		
Payments to vendors	\$ (16,690,989)	\$ (17,021,633)
Cash Flows from Capital and Related Financing Activities		
Lease payments	(330,644)	-0-
Reconciliation of Operating Income to Net Cash Provided by Operating Activities		
Operating income	5,815,855	5,844,098
Depreciation and amortization	16,984,094	16,625,207

NOTE 4. ASSIGNMENT AND ASSUMPTION AGREEMENTS

The Agreements between the Agency and CVFA, SCA and SPA, transferred the operation and ownership of the assigned Power Plants to the Agency for operational and administrative efficiencies. On November 1, 2021, CVFA, SCA and SPA transferred assets and obligations to the Agency and ceased operations. The transfer meets the definition of a transfer of operations under GASB Statement No. 69, ***“Government Combinations and Disposals of Government Operations”*** (GASB No. 69). In accordance with GASB No. 69, the Agency reported 2021 operations of the assigned Power Plants as of November 1, 2021. The calendar year of 2020 has not been restated and therefore only includes the Agency’s information. As a result of the transfer, the Agency recognized the following assets, liabilities, and net position:

	CVFA	SCA	SPA	Total
Transferred Assets				
Electric utility plant - net				
Plant in service - net	\$ 27,114,106	\$ 44,021,749	\$ 40,060,087	\$ 111,195,942
Construction in process	<u>13,008</u>	<u>-0-</u>	<u>62,517</u>	<u>75,525</u>
Total electric utility plant - net	27,127,114	44,021,749	40,122,604	111,271,467
Current assets				
Unrestricted cash and cash equivalents	5,267,217	21,015,704	11,716,013	37,998,934
Receivables:				
Power sales to Member	3,937,967	8,771,735	4,544,597	17,254,299
Steam sales	447,292	621,938	-0-	1,069,230
Accrued interest and other	594	2,945	1,461	5,000
Material and supplies	2,346,458	4,282,052	4,631,954	11,260,464
Prepayments	<u>422,946</u>	<u>618,053</u>	<u>411,288</u>	<u>1,452,287</u>
Total current assets	12,422,474	35,312,427	21,305,313	69,040,214
Noncurrent assets				
Other	<u>1,406</u>	<u>703</u>	<u>1,055</u>	<u>3,164</u>
Total noncurrent assets	1,406	703	1,055	3,164
Deferred outflows of resources				
Deferred ARO outflow	<u>1,444,585</u>	<u>-0-</u>	<u>-0-</u>	<u>1,444,585</u>
Total deferred outflows of resources	1,444,585	-0-	-0-	1,444,585
Total Transferred Assets	<u>\$ 40,995,579</u>	<u>\$ 79,334,879</u>	<u>\$ 61,428,972</u>	<u>\$ 181,759,430</u>
Transferred Liabilities				
Current liabilities				
Accounts payable	\$ 1,625,640	\$ 713,301	\$ 1,010,217	\$ 3,349,158
Payable due to Member	1,623,164	3,613,961	3,232,421	8,469,546
Other liabilities	<u>9,466</u>	<u>-0-</u>	<u>-0-</u>	<u>9,466</u>
Total current liabilities	3,258,270	4,327,262	4,242,638	11,828,170
Noncurrent liabilities				
Accrued decommissioning	<u>8,633,060</u>	<u>-0-</u>	<u>-0-</u>	<u>8,633,060</u>
Total noncurrent liabilities	8,633,060	-0-	-0-	8,633,060
Total Transferred Liabilities	<u>\$ 11,891,330</u>	<u>\$ 4,327,262</u>	<u>\$ 4,242,638</u>	<u>\$ 20,461,230</u>
Net Position of Transferred Operations	<u>\$ 29,104,249</u>	<u>\$ 75,007,617</u>	<u>\$ 57,186,334</u>	<u>\$ 161,298,200</u>

NOTE 5. ELECTRIC UTILITY PLANT AND RELATED OPERATING AGREEMENTS

The Agency had the following electric utility plant activity during 2022:

	Balance January 1, 2022	Additions	Adjustments/ Transfers/ Disposals	Balance December 31, 2022
Nondepreciable electric utility plant:				
Construction work in progress	\$ 1,818,920	\$ 34,356,587	\$ (11,916,697)	\$ 24,258,810
Land	<u>772,000</u>	<u>-0-</u>	<u>-0-</u>	<u>772,000</u>
Total nondepreciable electric utility plant	2,590,920	34,356,587	(11,916,697)	25,030,810
Depreciable electric utility plant:				
Generation	946,199,480	11,916,697	(1,849,046)	956,267,131
Lease assets - Land	6,341,350	-0-	-0-	6,341,350
Less: accumulated depreciation and amortization	<u>(645,557,842)</u>	<u>(34,324,718)</u>	<u>1,849,046</u>	<u>(678,033,514)</u>
Total electric utility plant - net	<u>\$ 309,573,908</u>	<u>\$ 11,948,566</u>	<u>\$ (11,916,697)</u>	<u>\$ 309,605,777</u>

The Agency had the following electric utility plant activity during 2021:

	Balance January 1, 2021	Additions	Adjustments/ Transfers/ Disposals	Balance December 31, 2021 (restated)
Nondepreciable electric utility plant:				
Construction work in progress	\$ -0-	\$ 1,962,487	\$ (143,567)	\$ 1,818,920
Land	<u>-0-</u>	<u>-0-</u>	<u>772,000</u>	<u>772,000</u>
Total nondepreciable electric utility plant	-0-	1,962,487	628,433	2,590,920
Depreciable electric utility plant:				
Generation	390,507,984	143,567	555,547,929	946,199,480
Lease assets - Land	-0-	6,341,350	-0-	6,341,350
Less: accumulated depreciation and amortization	<u>(183,449,762)</u>	<u>(16,984,094)</u>	<u>(445,123,986)</u>	<u>(645,557,842)</u>
Total electric utility plant - net	<u>\$ 207,058,222</u>	<u>\$ (8,536,690)</u>	<u>\$ 111,052,376</u>	<u>\$ 309,573,908</u>

The Agency leases land from SMUD and SRCSD for the Project and assigned Power Plants. Lease terms range from 30 to 35 years including options to extend the lease term after completion of the initial contracted term. The likelihood that the renewal options will be exercised has been evaluated and it has been determined that the lease agreements will be renewed with reasonable certainty. The agreements allow for periodic increases to the lease payments. The interest rates range between 2.0 percent to 2.1 percent based on the AAA Muni Curve with the number of years to maturity that corresponds to the lease term, plus an additional credit spread to account for a different credit rating and other factors. As of December 31, 2022, and December 31, 2021, assets recorded under leases were \$6.3 million and accumulated depreciation associated with the leases was \$0.7 million and \$0.4 million, respectively. The Agency recognized amortization expense of \$0.4 million for both 2022 and 2021, which are included in Depreciation and amortization on the Statements of Revenues, Expenses and Changes in Net Position. There were no payments recorded in the current period that were not included in the measurement of the lease liability and there were no lease impairments as of December 31, 2022 and 2021.

The following table summarizes the lease principal and interest payments as of December 31, 2022:

Year	Principal	Interest	Total
2023	\$ 280,026	\$ 71,206	\$ 351,232
2024	288,525	67,774	356,299
2025	297,290	64,226	361,516
2026	306,331	60,558	366,889
2027	315,657	56,767	372,424
2028-2032 (combined)	1,564,126	224,074	1,788,200
2033-2037 (combined)	1,587,700	121,658	1,709,358
2038-2042 (combined)	<u>1,099,263</u>	<u>16,600</u>	<u>1,115,863</u>
Total	<u>\$ 5,738,918</u>	<u>\$ 682,863</u>	<u>\$ 6,421,781</u>

NOTE 6. CASH, CASH EQUIVALENTS, AND INVESTMENTS

Cash Equivalents and Investments. The Agency's investments are governed by the California State and Municipal Codes and its Indenture, which allow the Agency investments to include: obligations which are unconditionally guaranteed by the U.S. Government or its agencies or instrumentalities; direct and general obligations of the State or any local agency within the State; bankers' acceptances; commercial paper; certificates of deposit; repurchase and reverse repurchase agreements; medium term corporate notes; LAIF; and money market funds. The Agency's investment policy also includes restrictions for investments relating to maximum amounts invested as a percentage of total portfolio and with a single issuer, maximum maturities, and minimum credit ratings.

Credit Risk. This is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. To mitigate the risk, the Agency limits investments to those rated, at a minimum, "A-1" or equivalent for short-term investments and "A" or equivalent for medium-term corporate notes by a nationally recognized rating agency.

Custodial Credit Risk. This is the risk that in the event of the failure of a depository financial institution or counterparty to a transaction, the Agency's deposits may not be returned, or the Agency will not be able to recover the value of its deposits, investments or collateral securities that are in the possession of another party. The Agency does not have a deposit or investment policy for custodial credit risk.

At December 31, 2022 and 2021, \$5.6 million and \$13.9 million of the Agency's cash balances were uninsured, respectively. The bank balance is also, per a depository pledge agreement between the Agency and the Agency's bank, collateralized at 128 percent and 129 percent of the collective funds on deposit (increased by the amount of accrued but uncredited interest, reduced by deposits covered by Federal Deposit Insurance Corporation) at December 31, 2022 and 2021, respectively. At December 31, 2022 and 2021, the Agency had money market funds of \$4.5 million and \$8.3 million which were uninsured, respectively. The Agency's money market funds are held in trust for the benefit of the Agency.

Concentration of Credit Risk. This is the risk of loss attributed to the magnitude of an entity's investment in a single issuer. The Agency places no limit on the amounts invested in any one issuer for federal agency securities. The Agency had no investments subject to this risk at December 31, 2022 and 2021.

Interest Rate Risk. This is the risk that investments are exposed to fair value losses arising from increasing interest rates. Though the Agency has restrictions as to the maturities of some of the investments, it does not have a formal policy for interest rate risk. The Agency had no investments subject to this risk at December 31, 2022 and 2021.

The following schedules present credit risk by type of security held at December 31, 2022 and 2021. The credit ratings listed are from Standard & Poor's. N/A is defined as not applicable to the rating disclosure requirements.

The Agency's cash and cash equivalents consist of the following:

	Credit Rating	December 31,	
		2022	2021
Cash and Cash Equivalents:			
Deposits	N/A	\$ 5,867,512	\$ 14,129,496
LAIF	Not Rated	30,579,453	47,245,656
Money market funds	AAAm	<u>4,514,426</u>	<u>8,254,654</u>
Total cash and cash equivalents		<u>\$ 40,961,391</u>	<u>\$ 69,629,806</u>

The Agency's cash and cash equivalents are classified in the Statements of Net Position as follows:

	December 31,	
	2022	2021
Cash and Cash Equivalents:		
Debt service funds	\$ 4,507,714	\$ 8,254,654
Unrestricted cash and cash equivalents	<u>36,453,677</u>	<u>61,375,152</u>
Total cash and cash equivalents	<u>\$ 40,961,391</u>	<u>\$ 69,629,806</u>

NOTE 7. LONG-TERM DEBT

The Agency issued \$193.3 million of 2015 Cosumnes Project Revenue Refunding Bonds (Bonds) in June 2015 with interest rates ranging from 2.0 percent to 5.0 percent, maturing July 2030.

The Agency's long-term debt is presented below:

	December 31,	
	2022	2021
2015 Cosumnes project revenue refunding bonds, fixed rates		
5.00%, 2023-2030	\$ 89,735,000	\$ 101,185,000
Unamortized premium - net	<u>7,663,307</u>	<u>9,685,892</u>
Total long-term debt	97,398,307	110,870,892
Less: amounts due within one year	<u>(1,845,000)</u>	<u>(11,450,000)</u>
Total long-term debt - net	<u>\$ 95,553,307</u>	<u>\$ 99,420,892</u>

The following summarizes long-term debt activity for the year ended December 31, 2022:

	January 1, 2022	Additions	Refunding, Payments or Amortization	December 31, 2022
Cosumnes project revenue bonds	\$ 101,185,000	\$ -0-	\$ (11,450,000)	\$ 89,735,000
Unamortized premiums - net	<u>9,685,892</u>	<u>-0-</u>	<u>(2,022,585)</u>	<u>7,663,307</u>
Total long-term debt	<u>\$ 110,870,892</u>	<u>\$ -0-</u>	<u>\$ (13,472,585)</u>	<u>\$ 97,398,307</u>

The following summarizes long-term debt activity for the year ended December 31, 2021:

	January 1, 2021	Additions	Refunding, Payments or Amortization	December 31, 2021
Cosumnes project revenue bonds	\$ 112,085,000	\$ -0-	\$ (10,900,000)	\$ 101,185,000
Unamortized premiums - net	<u>11,967,421</u>	<u>-0-</u>	<u>(2,281,529)</u>	<u>9,685,892</u>
Total long-term debt	<u>\$ 124,052,421</u>	<u>\$ -0-</u>	<u>\$ (13,181,529)</u>	<u>\$ 110,870,892</u>

The annual debt service requirements to maturity for Bonds are as follows at December 31, 2022:

Year	Principal	Interest	Total
2023	\$ 1,845,000	\$ 4,486,750	\$ 6,331,750
2024	13,115,000	4,394,500	17,509,500
2025	14,270,000	3,738,750	18,008,750
2026	13,630,000	3,025,250	16,655,250
2027	13,065,000	2,343,750	15,408,750
2028-2030 (combined)	<u>33,810,000</u>	<u>3,017,000</u>	<u>36,827,000</u>
Total	<u>\$ 89,735,000</u>	<u>\$ 21,006,000</u>	<u>\$ 110,741,000</u>

Proceeds from the Bonds were used to refund previously issued 2006 Bonds that provided financing for the Project. The Bonds, payable through 2030, are secured solely by a pledge of and lien on the trust estate under the Indenture which includes revenues from the PPA and investment income from funds established under the Indenture.

The Agency has pledged future net revenues to repay \$89.7 million for the Bonds at December 31, 2022 and \$101.2 million at December 31, 2021. Annual principal and interest payments on the Bonds required approximately 14.3 percent and 11.5 percent of the Agency's net revenues for 2022 and 2021, respectively. The total principal and interest remaining to be paid on the Bonds is \$110.7 million and \$127.3 million at December 31, 2022 and 2021, respectively. Debt service payments are made semi-annually on January 1 and July 1. Principal and interest paid was \$16.5 million for both 2022 and 2021. Total net revenues were \$115.3 million and \$143.2 million for 2022 and 2021, respectively.

The payments of principal and interest related to the Agency's long-term debt are not dependent upon the continued successful operation of the Project. SMUD guarantees to make payments in an amount sufficient to pay principal and interest and all other payments required to be made under the Indenture, under a "take-or-pay" contract. The Agency is not required to repay SMUD for any amounts paid under this guarantee.

Terms of Debt Indenture. The debt indenture contains a provision that in an event of default, the holders of the majority of the debt outstanding are entitled to declare the outstanding amounts due immediately.

NOTE 8. ACCRUED DECOMMISSIONING

Asset Retirement Obligation (ARO). The Agency accounts for the ARO associated with the future retirement of Carson. GASB No. 83 requires the measurement of the ARO be based on the best estimate of the current value of the outlays expected to be incurred and the current value be adjusted for the effects of the general inflation or deflation at least annually. In addition, it also requires a government to evaluate relevant factors that may significantly change the estimated asset retirement outlays.

The Agency's ground lease agreement with the SRCSD for Carson requires to restore the premises to its original condition upon termination of the contract. In 2018 a study to determine the current value of the asset retirement obligation was conducted by an external contractor who specializes in decommissioning studies. The expected costs and scope of work were based on the 2018 cost estimate and assumes a contractor will be responsible for the work and that decommissioning would take place between 2025 and 2027. The result of this study was used to determine the balance of the ARO and the deferred outflows at January 1, 2018. The Agency used the annual All Urban Consumer Price Index to adjust this obligation for inflation in 2022. At December 31, 2022, the remaining useful life of the Carson's assets is three years.

NOTE 9. INSURANCE PROGRAMS

The Agency purchases commercial property and casualty insurance coverage at levels consistent with coverages on similar facilities. The policies' deductible dollar amounts vary depending on the type of coverage. Excess liability coverage for most claims against the Agency is \$140.0 million and property is covered under an all-risk policy to replacement value. Generally, the maximum risk that the Agency would be exposed to is limited to \$0.25 million for most casualty claims and \$5.0 million for property claims. No claims have exceeded the limits of property or liability insurance in any of the past three years. There were no significant reductions in coverage compared to the prior year.

NOTE 10. FAIR VALUE MEASUREMENTS

SGAS No. 72, "*Fair Value Measurement and Application*" (GASB No. 72), defines fair value as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date (an exit price). The Agency utilizes market data or assumptions that market participants would use in pricing the asset or liability, including assumptions about risk and the risks inherent in the inputs to the valuation technique.

GASB No. 72 establishes a fair value hierarchy that prioritizes the inputs used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). The three levels of the fair value hierarchy defined by GASB No. 72 are as follows:

- Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities.
- Level 2 inputs are inputs other than quoted prices included in Level 1 that are observable for an asset or liability, either directly or indirectly.
- Level 3 inputs are unobservable inputs that reflect the Agency's own assumptions about factors that market participants would use in pricing the asset or liability.

The valuation methods of the fair value measurements are disclosed below. All of the Agency's investments are valued using Level 2 inputs.

- LAIF - uses the fair value of the pool's share price multiplied by the number of shares held. This pool can include a variety of investments such as U.S. government securities, federal agency securities, negotiable certificates of deposit, bankers' acceptances, commercial paper, corporate bonds, bank notes, and other investments. The fair values of the securities are generally based on quoted and/or observable market prices.

The following table identifies the level within the fair value hierarchy that the Agency’s financial assets are accounted for on a recurring basis as of December 31, 2022 and 2021, respectively. As required by GASB No. 72, financial assets and liabilities are classified in their entirety based on the lowest level of input that is significant to the fair value measurement. The Agency’s assessment of the significance of a particular input to the fair value measurement requires judgment and may affect the valuation of the fair value of liabilities and their placement within the fair value hierarchy levels.

Recurring Fair Value Measures (Level 2)

	December 31,	
	2022	2021
Investments reported as Cash and Cash Equivalents:		
LAIF	\$ 30,579,453	\$ 47,245,656
Total fair value investments	<u>\$ 30,579,453</u>	<u>\$ 47,245,656</u>

NOTE 11. COMMITMENTS

Natural Gas Interconnection and Supply Agreements. Pursuant to the Natural Gas Interconnection and Supply Agreements, SMUD supplies all the natural gas requirements of the Project and the assigned Power Plants. The Agency pays for the actual supply, storage and transportation costs for the fuel supplied to the Project and the assigned Power Plants as specified in the agreements for 30 years following acceptance. The agreements will be in effect for Carson through October 2025, for Procter and Gamble through March 2027, for Campbell through December 2027 and for the Project through September 2039.

Operation and Maintenance Agreements. Ethos serves as the Operator and is responsible for the primary operation, repair, overhaul and maintenance services of the Project and the assigned Power Plants. The Agency pays for such services according to the terms of the agreements and provides, at no cost to Ethos, fuel, water, and power not already provided for in other agreements. At December 31, 2022, the minimum annual commitment to Ethos was approximately \$11.9 million.

Water Supply Agreement. Pursuant to the Water Supply Agreement, SMUD supplies water to the Agency. The Agency is obligated to pay for the actual water supply, storage, and transportation costs for 30 years through September 2039.

Commodity Agreement. Carson provides SRCSD’s sewage treatment plant with all the steam required for its operation and emergency power should the outside power supply become disrupted. The Agency also purchases a minimum of 90 percent of the digester gas made available to Carson by the sewage treatment plant, provided the gas meets standards set forth in this agreement, as amended, which expires in October 2025.

NOTE 12. CONTINGENCIES

General Contingencies. In the normal operation of business, the Agency is party to various claims, legal actions and complaints. Management and the Agency’s legal counsel believe that there are no material loss contingencies that would have a material adverse impact on the financial position of the Agency.

SSS No.
CFO 23-002

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
Finance & Audit
March 14, 2023
Board Meeting Date
N/A

TO					TO				
1.	Jennifer Davidson				6.				
2.	Jose Bodipo-Memba				7.				
3.	Lora Anguay				8.				
4.	Scott Martin				9.	Legal			
5.					10.	CEO & General Manager			

Consent Calendar	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No <i>If no, schedule a dry run presentation.</i>	Budgeted	<input checked="" type="checkbox"/>	Yes	No <i>(If no, explain in Cost/Budgeted section.)</i>
FROM (IPR)	DEPARTMENT				MAIL STOP	EXT.	DATE SENT	
Lisa Limcaco	Accounting				B352	7045	3/1/23	

NARRATIVE:

Requested Action: SMUD's Financial Results for the year 2022.

Summary: Staff will provide an informational presentation to Board members with SMUD's financial results for the year 2022.

Board Policy: GP-3, Board Job Description
(Number & Title)

Benefits: Provide Board members current information regarding SMUD's financial condition.

Cost/Budgeted: N/A

Alternatives: N/A

Affected Parties: SMUD, Accounting

Coordination: Accounting

Presenter: Lisa Limcaco

Additional Links:

SUBJECT	SMUD's 2022 Financial Results	ITEM NO. (FOR LEGAL USE ONLY)
---------	-------------------------------	-------------------------------

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

SSS No.

CFO 22-021

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date

Finance & Audit, 2023

Board Meeting Date

N/A

TO					TO								
1.	Jennifer Davidson				6.								
2.	Lora Anguay				7.								
3.	Scott Martin				8.								
4.	Jose Bodipo-Memba				9.	Legal							
5.					10.	CEO & General Manager							
Consent Calendar			Yes		No <i>If no, schedule a dry run presentation.</i>		Budgeted		Yes		No <i>(If no, explain in Cost/Budgeted section.)</i>		
FROM (IPR)					DEPARTMENT					MAIL STOP		EXT.	
Lisa Limcaco					Accounting					B352		7045	
												DATE SENT	
												12/27/2022	

NARRATIVE:

Requested Action: Provide the Board with SMUD's financial results for the year-to-date period and a summary of SMUD's current Power Supply Costs.

Summary: Staff will present SMUD's financial results for the year-to-date period and a summary of SMUD's current Power Supply Costs to the Board of Directors.

Board Policy: GP-3, Board Job Description
(Number & Title)

Benefits: Provide Board members with information regarding SMUD's financial position and SMUD's current power supply costs.

Cost/Budgeted: N/A

Alternatives: N/A

Affected Parties: Accounting and SMUD

Coordination: Accounting

Presenter: Lisa Limcaco

Additional Links:

SUBJECT

SMUD's Financial Results & Power Supply Costs

ITEM NO. (FOR LEGAL USE ONLY)

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

**SACRAMENTO MUNICIPAL UTILITY DISTRICT
OFFICE MEMORANDUM**

TO: Distribution

DATE: February 28, 2023
ACC 23-006

FROM: Kathy Ketchum / Lisa Limcaco

SUBJECT: JANUARY 2023 FINANCIAL RESULTS AND OPERATIONS DATA

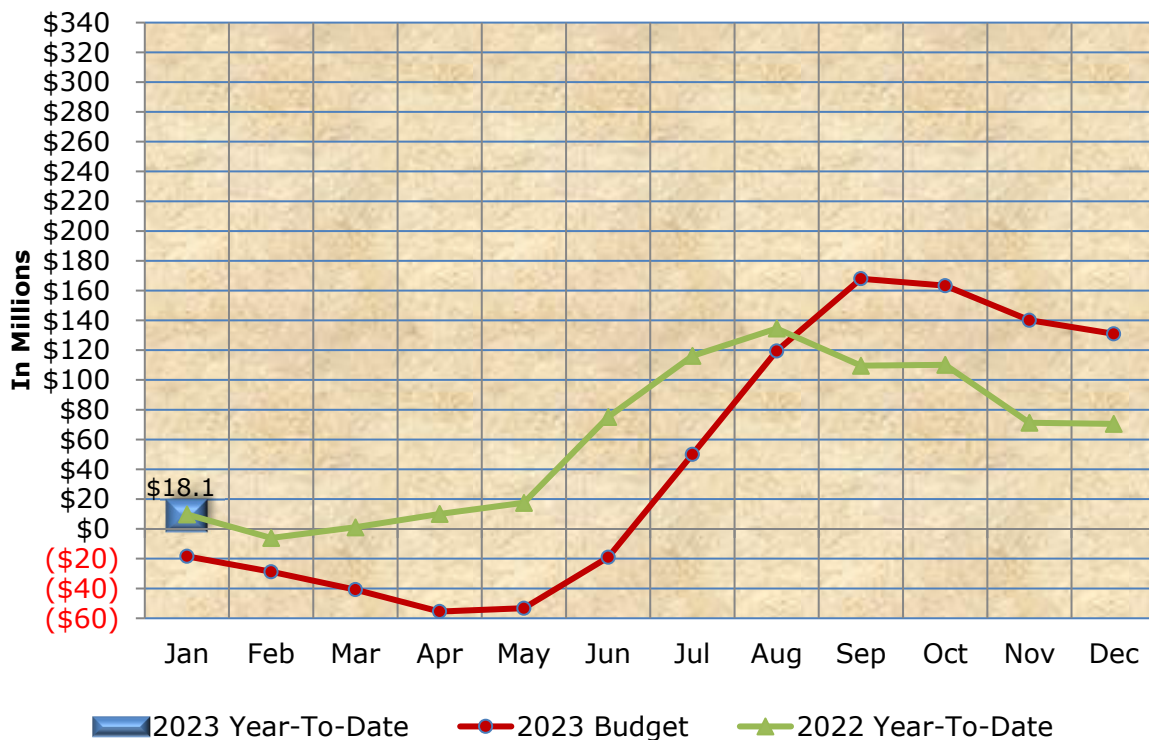
We are attaching the financial and operating reports for the one month of 2023. They include sales and generation statistics and other selected data.

The change in net position is an increase of \$18.1 million compared to a budgeted decrease of \$18.5 million, resulting in a favorable variance of \$36.6 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 2023 Budget approved by the Board of Directors on December 8, 2022.

Change in Net Position Year To Date



SACRAMENTO MUNICIPAL UTILITY DISTRICT
EXECUTIVE SUMMARY
For the One Month Ended January 31, 2023

Net Position

- The change in net position is an increase of \$18.1 million compared to a budgeted decrease of \$18.5 million, resulting in a favorable variance of \$36.6 million.

Revenues

- Revenues from sales to customers were \$118.0 million, which was \$2.1 million higher than planned.
 - The increase is primarily due to higher commercial customer revenues of \$2.3 million offset by lower residential sales of \$0.9 million.
- Non-cash revenues transferred from the rate stabilization fund were \$2.7 million, of which \$1.5 million was for revenue recognized for AB-32, \$0.8 million was for revenue recognized from LCFS electric vehicle programs expenses and \$0.4 was for revenue recognized for Community Impact Plan.
- Other electric revenues were higher by \$3.6 million primarily due to higher Procter & Gamble Power Plant steam sales.

Commodities, Purchased Power and Production

- *Overall, load was lower than planned. Hydro generation was higher than planned due to precipitation levels. This resulted in lower fuel usage, decreased net price in MMBTU (due to favorable fuel hedging activity), and lower purchased power expense.*
- SMUD's generation was higher by 152 GWh (41.1 percent); JPA and other generation was lower by 6 GWh (2.6 percent); and Hydro generation was higher by 158 GWh (115.3 percent).
- Purchased power expense of \$58.0 million, less surplus power sales of \$21.4 million, was \$36.6 million, which was \$10.8 million lower than planned. Purchased power expense decreased because of lower purchases of \$17.3 million offset by higher prices of \$6.4 million.
- Production operations cost of \$12.7 million, less surplus gas sales of \$27.3 million, is a credit of \$14.6, which is \$26.2 million lower than planned.
 - Fuel costs of \$0.5 million less surplus gas sales of \$27.3 million created net surplus gas sales of \$26.8 million which resulted in fuel costs being \$29.6 million lower than planned. This is primarily due to lower fuel prices of \$29.3 million and lower fuel usage of \$0.3 million. The lower price variance is due to natural gas hedging activity.
- The "power margin", or sales to customers less cost of purchased power, production operations costs and gas hedges included in investment revenue was \$99.2 million, which was \$42.5 million higher than planned. The power margin as a percentage of sales to customers was 84.1 percent, which was 35.2 percent higher than planned.

Other Operating Expenses

- All other operating expenses were \$87.6 million, which was \$15.1 million higher than planned.
 - Administrative and General expenses were higher by \$1.0 million primarily due to storm event responses offset by lower admin and general salaries costs due to the reversal of a double accrual in 2022.
 - Transmission and distribution maintenance expenses were \$13.7 million higher than planned. This is primarily due to higher costs related to storm response.
 - Non-cash depreciation and amortization is higher by \$1.8 million primarily due to higher amortization of leases.

Non-operating Revenues and Expenses

- Other revenue, net, was \$7.0 million higher than planned primarily due to higher investment revenue of \$3.3 million due to natural gas hedging activities, \$1.4 million due to unrealized holding gains, and \$1.2 million due to higher interest income.

SACRAMENTO MUNICIPAL UTILITY DISTRICT
STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION
For the Month Ended January 31, 2023
(thousands of dollars)

	<u>Actual</u>	<u>Budget</u>	<u>Over (Under)</u>	<u>Percent of Increase (Decrease)</u>
OPERATING REVENUES				
Sales to customers	\$ 117,954	\$ 115,834	\$ 2,120	1.8 %
Sales of surplus power	21,390	17,292	4,098	23.7
Sales of surplus gas	27,316	-	27,316	*
Public good revenue	-	411	(411)	(100.0)
LCFS revenue	-	215	(215)	(100.0)
Other electric revenue	6,088	2,540	3,548	139.7
Revenue from rate stabilization fund	2,685	-	2,685	*
Total operating revenues	175,433	136,292	39,141	28.7
OPERATING EXPENSES				
Operations				
Purchased power	58,032	64,780	(6,748)	(10.4)
Production	12,711	11,630	1,081	9.3
Transmission and distribution	7,880	8,630	(750)	(8.7)
Customer accounts	4,758	5,251	(493)	(9.4)
Customer service and information	5,673	5,460	213	3.9
Administrative and general	16,955	15,964	991	6.2
Public good	3,643	4,528	(885)	(19.5)
Total operations	109,652	116,243	(6,591)	(5.7)
Maintenance				
Production	2,619	1,832	787	43.0
Transmission and distribution	21,260	7,519	13,741	182.8
Total maintenance	23,879	9,351	14,528	155.4
Depreciation and amortization				
Depreciation and amortization	21,711	19,888	1,823	9.2
Amortization of regulatory asset	3,135	3,445	(310)	(9.0)
Total depreciation and amortization	24,846	23,333	1,513	6.5
Total operating expenses	158,377	148,927	9,450	6.3
OPERATING INCOME (LOSS)	17,056	(12,635)	29,691	235.0
NON-OPERATING REVENUES AND EXPENSES				
Other revenues/(expenses)				
Interest income	2,209	1,058	1,151	108.8
Investment revenue (expense)	3,328	(53)	3,381	*
Other income (expense) - net	945	223	722	323.8
Unrealized holding gains (losses)	1,432	-	1,432	*
Revenue - CIAC	1,574	1,246	328	26.3
Total other revenues	9,488	2,474	7,014	283.5
Interest charges				
Interest on long-term debt	7,912	8,084	(172)	(2.1)
Interest on commercial paper	515	197	318	161.4
Total interest charges	8,427	8,281	146	1.8
CHANGE IN NET POSITION	\$ 18,117	\$ (18,442)	\$ 36,559	198.2 %

* Equals 1000% or greater.

SACRAMENTO MUNICIPAL UTILITY DISTRICT
STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION
For the One Month Ended January 31, 2023
(thousands of dollars)

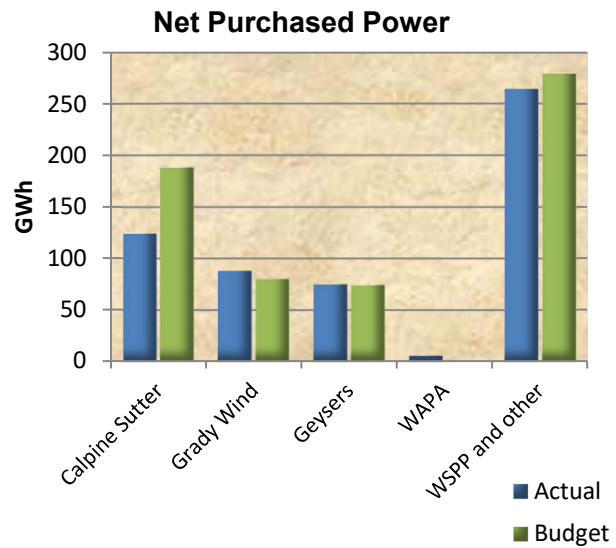
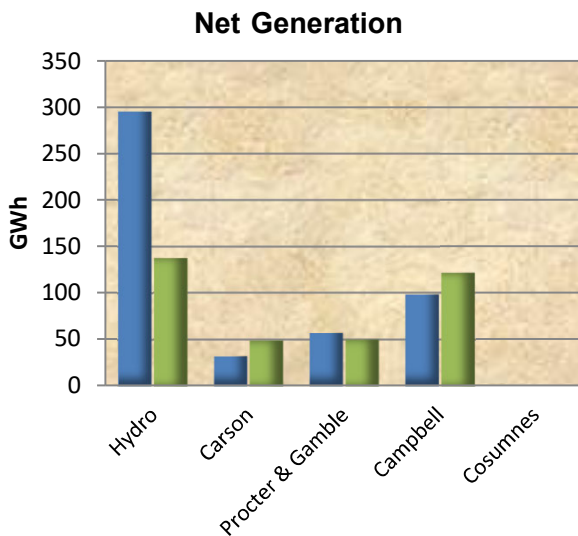
	Actual	Budget	Over (Under)	Percent of Increase (Decrease)
OPERATING REVENUES				
Sales to customers	\$ 117,954	\$ 115,834	\$ 2,120	1.8 %
Sales of surplus power	21,390	17,292	4,098	23.7
Sales of surplus gas	27,316	-	27,316	*
Public good revenue	-	411	(411)	(100.0)
LCFS revenue	-	215	(215)	(100.0)
Other electric revenue	6,088	2,540	3,548	139.7
Revenue from rate stabilization fund	2,685	-	2,685	*
Total operating revenues	175,433	136,292	39,141	28.7
OPERATING EXPENSES				
Operations				
Purchased power	58,032	64,780	(6,748)	(10.4)
Production	12,711	11,630	1,081	9.3
Transmission and distribution	7,880	8,630	(750)	(8.7)
Customer accounts	4,758	5,251	(493)	(9.4)
Customer service and information	5,673	5,460	213	3.9
Administrative and general	16,955	15,964	991	6.2
Public good	3,643	4,528	(885)	(19.5)
Total operations	109,652	116,243	(6,591)	(5.7)
Maintenance				
Production	2,619	1,832	787	43.0
Transmission and distribution	21,260	7,519	13,741	182.8
Total maintenance	23,879	9,351	14,528	155.4
Depreciation and amortization				
Depreciation and amortization	21,711	19,888	1,823	9.2
Amortization of regulatory asset	3,135	3,445	(310)	(9.0)
Total depreciation and amortization	24,846	23,333	1,513	6.5
Total operating expenses	158,377	148,927	9,450	6.3
OPERATING INCOME (LOSS)	17,056	(12,635)	29,691	235.0
NON-OPERATING REVENUES AND EXPENSES				
Other revenues/(expenses)				
Interest income	2,209	1,058	1,151	108.8
Investment revenue (expense)	3,328	(53)	3,381	*
Other income (expense) - net	945	223	722	323.8
Unrealized holding gains (losses)	1,432	-	1,432	*
Revenue - CIAC	1,574	1,246	328	26.3
Total other revenues	9,488	2,474	7,014	283.5
Interest charges				
Interest on long-term debt	7,912	8,084	(172)	(2.1)
Interest on commercial paper	515	197	318	161.4
Total interest charges	8,427	8,281	146	1.8
CHANGE IN NET POSITION	\$ 18,117	\$ (18,442)	\$ 36,559	198.2 %

* Equals 1000% or greater.

**SACRAMENTO MUNICIPAL UTILITY DISTRICT
SOURCES AND USES OF ENERGY - COMPARED TO BUDGET
For the Period Ended January 31, 2023**

Sources of Energy (GWh)	Month		Increase (Decrease)	Year to Date		Increase (Decrease)
	Actual	Budget	Percentage	Actual	Budget	Percentage
Net Generated						
Hydro	295	137	115.3	295	137	115.3
Carson Power Plant	32	49	(34.7)	32	49	(34.7)
Procter & Gamble Power Plant	57	50	14.0	57	50	14.0
Campbell Power Plant	98	121	(19.0)	98	121	(19.0)
Cosumnes Power Plant	-	-	*	-	-	*
Other	40	13	207.7	40	13	207.7
Total net generation	522	370	41.1	522	370	41.1
Purchased Power less transmission losses:						
CalEnergy	12	19	(36.8)	12	19	(36.8)
Calpine Sutter	124	188	(34.0)	124	188	(34.0)
Drew Solar	15	17	(11.8)	15	17	(11.8)
Feed in Tariff	8	9	(11.1)	8	9	(11.1)
Geysers	75	74	1.4	75	74	1.4
Grady Wind	88	80	10.0	88	80	10.0
Rancho Seco PV II	7	13	(46.2)	7	13	(46.2)
WAPA	6	-	*	6	-	*
WSPP and other	264	279	(5.4)	264	279	(5.4)
Other long term power	37	42	(11.9)	37	42	(11.9)
Total net purchases	636	721	(11.8)	636	721	(11.8)
Total sources of energy	1,158	1,091	6.1	1,158	1,091	6.1
Uses of energy:						
SMUD electric sales and usage	832	857	(2.9)	832	857	(2.9)
Surplus power sales	286	183	56.3	286	183	56.3
System losses	40	51	(21.6)	40	51	(21.6)
Total uses of energy	1,158	1,091	6.1 %	1,158	1,091	6.1 %

* Change equals 1000% or more.



Net generation is higher than planned for the one-month period.

- Hydro generation is higher than planned (115.3 percent).
- JPA generation is lower than planned (15 percent).

Purchased power, less surplus power sales, is lower than plan (34.9 percent).

SACRAMENTO MUNICIPAL UTILITY DISTRICT
STATEMENTS OF NET POSITION
January 31, 2023 and 2022
(thousands of dollars)

							Total
	SMUD	SFA	NCEA	NCGA #1	Intercompany Eliminations	2023	2022
ELECTRIC UTILITY PLANT							
Plant in service, original cost	\$ 6,206,687	\$ 963,380	\$ -	\$ -	\$ (4,578)	\$ 7,165,489	\$ 6,832,609
Less accumulated depreciation	2,880,514	680,886	-	-	(561)	3,560,839	3,351,264
Plant in service -net	3,326,173	282,494	-	-	(4,017)	3,604,650	3,481,345
Construction work in progress	337,850	24,661	-	-	-	362,511	373,921
Investment in Joint Power Agencies	315,546	-	-	-	(282,772)	32,775	27,141
Total electric utility plant -net	3,979,569	307,155	-	-	(286,789)	3,999,936	3,882,407
RESTRICTED ASSETS							
Revenue bond reserves	2,004	-	-	-	-	2,004	2,931
Restricted for payment of debt service	100,106	-	-	-	-	100,106	96,716
JPA funds	-	5,416	10,679	13,777	-	29,872	29,491
Nuclear decommissioning trust fund	9,010	-	-	-	-	9,010	8,874
Rate stabilization fund	153,331	-	-	-	-	153,331	188,543
Net pension asset	-	-	-	-	-	-	27,738
Net OPEB asset	-	-	-	-	-	-	57,532
Other funds	24,041	-	3,000	1	-	27,042	22,100
Due (to) from unrestricted funds (decommissioning)	(6,684)	-	-	-	-	(6,684)	(6,684)
Due (to) from restricted funds (decommissioning)	6,684	-	-	-	-	6,684	6,684
Less current portion	(111,592)	(5,409)	(13,679)	(13,778)	-	(144,458)	(145,464)
Total restricted assets	176,900	7	-	-	-	176,907	288,461
CURRENT ASSETS							
Cash, cash equivalents and investments							
Unrestricted	633,832	33,446	-	-	-	667,278	642,130
Restricted	111,592	5,409	13,679	13,778	-	144,458	145,464
Accounts receivable -net	304,068	61,801	28,986	2,607	(122,453)	275,008	254,246
Lease receivable	1,012	-	-	-	(209)	803	361
Energy efficiency loans due within one year	139	-	-	-	-	139	201
Interest receivable	4,668	63	-	13	-	4,744	412
Lease Interest Receivable	30	-	-	-	(4)	26	66
Regulatory costs to be recovered within one year	64,572	104	-	105	-	64,781	36,158
Derivative financial instruments maturing within one year	38,009	-	-	-	-	38,009	30,618
Inventories	94,928	17,484	-	-	-	112,412	98,104
Prepaid gas to be delivered within one year	-	-	4,470	25,444	-	29,914	26,283
Prepayments and other	25,981	6,132	25	16	-	32,154	23,372
Total current assets	1,278,831	124,439	47,160	41,963	(122,666)	1,369,726	1,257,415
NONCURRENT ASSETS							
Regulatory costs for future recovery							
Decommissioning	75,860	-	-	-	-	75,860	76,470
Pension	479,816	-	-	-	-	479,816	339,125
OPEB	302,653	-	-	-	-	302,653	279,945
Bond Issues	-	670	-	358	-	1,028	1,237
Derivative financial instruments	1,353	-	-	-	-	1,353	3,096
Derivative financial instruments	67,707	-	-	-	-	67,707	45,541
Prepaid gas	-	-	523,915	110,043	-	633,958	663,873
Prepaid power and capacity	156	-	-	-	-	156	363
Lease receivable	21,438	-	-	-	(3,742)	17,696	17,161
Energy efficiency loans -net	698	-	-	-	-	698	976
Other	81,316	4	-	53	-	81,373	66,783
Total noncurrent assets	1,030,997	674	523,915	110,454	(3,742)	1,662,298	1,494,570
TOTAL ASSETS	\$ 6,466,297	\$ 432,275	\$ 571,075	\$ 152,417	\$ (413,197)	\$ 7,208,867	\$ 6,922,853
DEFERRED OUTFLOWS OF RESOURCES							
Accumulated decrease in fair value of hedging derivatives	35,534	-	-	-	-	35,534	53,669
Deferred pension outflows	144,678	-	-	-	-	144,678	77,812
Deferred OPEB outflows	43,356	-	-	-	-	43,356	24,761
Deferred ARO outflows	-	2,009	-	-	-	2,009	1,738
Unamortized bond losses - other	7,038	1,168	-	-	-	8,206	11,996
TOTAL DEFERRED OUTFLOWS OF RESOURCES	230,606	3,177	-	-	-	233,783	169,976
TOTAL ASSETS AND DEFERRED OUTFLOWS OF RESOURCES	\$ 6,696,903	\$ 435,452	\$ 571,075	\$ 152,417	\$ (413,197)	\$ 7,442,650	\$ 7,092,829

SACRAMENTO MUNICIPAL UTILITY DISTRICT
STATEMENTS OF NET POSITION
January 31, 2023 and 2022
(thousands of dollars)

	<u>Total</u>						
	SMUD	SFA	NCEA	NCGA #1	Intercompany Eliminations	2023	2022
LONG-TERM DEBT -NET	\$ 2,122,821	\$ 95,396	\$ 544,153	\$ 120,070	\$ -	\$ 2,882,440	3,078,200
CURRENT LIABILITIES							
Commercial paper notes	200,000	-	-	-	-	200,000	-
Accounts payable	171,243	16,905	26,376	53	-	214,577	128,507
Purchased power payable	137,377	34,484	-	-	(122,453)	49,408	32,861
Credit support collateral obligation	10,869	-	-	1	-	10,870	3,263
Long-term debt due within one year	111,165	1,845	2,320	22,865	-	138,195	132,150
Accrued decommissioning	7,549	-	-	-	-	7,549	6,889
Interest payable	43,289	374	1,813	459	-	45,935	47,381
Interest Accrued Liability	-	6	-	-	(4)	13	30
Accrued salaries and compensated absences	63,285	-	-	-	-	63,285	61,507
Derivative financial instruments maturing within one year	28,235	-	-	-	-	28,235	50,330
Customer deposits	1,895	-	-	-	-	1,895	1,373
Lease Liability	24,490	289	-	-	(209)	24,570	26,061
Other	49,002	-	-	-	-	49,002	41,411
Total current liabilities	848,410	53,903	30,509	23,378	(122,666)	833,534	531,763
NONCURRENT LIABILITIES							
Accrued decommissioning -net	78,187	9,756	-	-	-	87,943	87,681
Derivative financial instruments	13,262	-	-	-	-	13,262	10,215
Net pension liability	235,451	-	-	-	-	235,451	-
Net OPEB liability	6,753	-	-	-	-	6,753	-
Lease Liability	4,832	5,170	-	-	(3,742)	6,260	30,530
Other	83,645	-	208	-	-	83,853	87,582
Total noncurrent liabilities	422,130	14,926	208	-	(3,742)	433,522	216,008
TOTAL LIABILITIES	3,393,361	164,225	574,870	143,448	(126,408)	4,149,496	3,825,971
DEFERRED INFLOWS OF RESOURCES							
Accumulated increase in fair value of hedging derivatives	105,342	-	-	-	-	105,342	71,638
Deferred pension inflows	17,536	-	-	-	-	155,815	224,878
Deferred OPEB inflows	33,732	-	-	-	-	92,828	92,263
Deferred Lease inflows 11	22,140	-	-	-	(4,017)	18,123	17,373
Regulatory credits	710,049	-	-	-	-	512,674	542,253
Unamortized bond gains - other	20,171	-	-	-	-	20,171	9,125
Unearned revenue	3,223	58	-	-	-	3,281	3,359
TOTAL DEFERRED INFLOWS OF RESOURCES	912,193	58	-	-	(4,017)	908,234	960,889
NET POSITION							
Balance at beginning of year	2,377,719	267,457	(4,610)	8,989	(282,752)	2,366,803	2,296,261
Net increase (decrease) for the year	13,630	3,712	805	(30)	-	18,117	9,708
Member contributions (distributions) -net	-	-	10	10	(20)	-	-
TOTAL NET POSITION	2,391,349	271,169	(3,795)	8,969	(282,772)	2,384,920	2,305,969
TOTAL LIABILITIES, DEFERRED INFLOWS OF RESOURCES AND NET POSITION	\$ 6,696,903	\$ 435,452	\$ 571,075	\$ 152,417	\$ (413,197)	\$ 7,442,650	\$ 7,092,829

SACRAMENTO MUNICIPAL UTILITY DISTRICT
STATEMENTS OF CASH FLOWS
For the Period Ended January 31, 2023
(thousands of dollars)

	Month	Year to Date
CASH FLOWS FROM OPERATING ACTIVITIES		
Receipts from customers	\$ 117,978	\$ 117,978
Receipts from surplus power and gas sales	64,738	64,738
Other receipts	2,982	2,982
Payments to employees - payroll and other	(30,330)	(30,330)
Payments for wholesale power and gas purchases	(83,759)	(83,759)
Payments to vendors/others	(35,689)	(35,689)
Net cash provided by operating activities	35,920	35,920
CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES		
Interest on debt	(12,636)	(12,636)
Net cash used in noncapital financing activities	(12,636)	(12,636)
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES		
Construction expenditures	(23,719)	(23,719)
Contributions in aid of construction	396	396
Issuance of commercial paper	50,000	50,000
Interest on debt	(3,995)	(3,995)
Lease and other payments	(2,566)	(2,566)
Cash received from leases	428	428
Net cash provided by capital and related financing activities	20,544	20,544
CASH FLOWS FROM INVESTING ACTIVITIES		
Sales and maturities of securities	(42,080)	(42,080)
Purchases of securities	42,384	42,384
Interest and dividends received	2,378	2,378
Investment revenue/expenses - net	3,336	3,336
Net cash provided by investing activities	6,018	6,018
Net increase in cash and cash equivalents	49,846	49,846
Cash and cash equivalents at the beginning of the month and year	389,838	389,838
Cash and cash equivalents at January 31, 2023	\$ 439,684	\$ 439,684
Cash and cash equivalents included in:		
Unrestricted cash and cash equivalents	\$ 398,947	\$ 398,947
Restricted and designated cash and cash equivalents	30,033	30,033
Restricted and designated assets (a component of the total of \$176,907 at January 31, 2023)	10,704	10,704
Cash and cash equivalents at January 31, 2023	\$ 439,684	\$ 439,684

SSS No.
AES23-018

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date Finance & Audit – 03/14/23
Board Meeting Date N/A

TO					TO					
1.	Ed Hamzawi				6.					
2.	Jennifer Davidson				7.					
3.	Scott Martin				8.					
4.	Lora Anguay				9.	Legal				
5.	Jose Bodipo-Memba				10.	CEO & General Manager				
Consent Calendar <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If no, schedule a dry run presentation.</i>					Budgeted <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, explain in Cost/Budgeted section.)</i>					
FROM (IPR) Ed Hamzawi					DEPARTMENT Advanced Energy Solutions					
					MAIL STOP A203		EXT. 5449		DATE SENT 3-1-2023	

NARRATIVE:	
Requested Action:	Provide the Board with an external presentation from the Sacramento Tree Foundation regarding the state of the canopy in SMUD's service territory.
Summary:	Since 1990, in collaboration with Sacramento Tree Foundation (STF), SMUD has provided shade trees to customers. Jessica Sanders, Executive Director of the Sacramento Tree Foundation, will be presenting Seed to Slab - Cultivating Holistic Care of our Trees.
Board Policy: <i>(Number & Title)</i>	SD-7, Environmental Leadership; promoting energy efficiency, reduction of greenhouse gases and proactively engaging customer owners by encouraging them to plant and care for shade trees.
Benefits:	Increase the Board's knowledge of the Sacramento Tree Foundation and the state of the canopy in SMUD's service territory.
Cost/Budgeted:	This information item has no direct budgetary impact.
Alternatives:	Do not have the presentation and panel discussion.
Affected Parties:	Enterprise Strategy, Zero Carbon Energy Solutions, Sustainable Communities
Coordination:	Advanced Energy Solutions
Presenter:	Jessica Sanders, Ph.D., PMP, Executive Director, Sacramento Tree Foundation

Additional Links:

SUBJECT Sacramento Tree Foundation Presentation	ITEM NO. <i>(FOR LEGAL USE ONLY)</i>
---	--------------------------------------

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.



Jessica Sanders, Ph.D., PMP
Sacramento Tree Foundation
Executive Director

Jessica has a doctorate from Rutgers University and is a certified Project Management Professional. She is a fellow with the American Leadership Forum – Mountain Valley Chapter. Jessica has a passion for the urban forest, and her research has focused on developing and enhancing current urban forestry practices in order to better manage the urban interface. Growing up in New Jersey and spending her college years walking through Atlantic white cedar bogs, she wanted nature to be a daily experience, not a destination. Jessica has worked at the intersection of science communication and creation of long-lasting urban forestry policy.

She served as the chair of the Conference Program Committee, the chair of the Nominations and Elections Committee for the International Society of Arboriculture as well as a member of the Science and Research Committee. She was a board member for the Mid-Atlantic Chapter (MAC) of ISA and has served as President of ISA-AREA. She is currently on the Scientific Committee for FAO's world forum on urban forests.

She fell in love with the Sacramento Tree Foundation's holistic vision of urban forestry and prioritizes the organization's goal of urban forestry from seed to slab, creating and cultivating an equitable urban forest through education and stewardship of trees in the Sacramento region. She previously worked at Casey Trees as the Director of Science and Policy, overseeing community science, mapping, policy, partnerships, and land conservation.

SSS No. SCS 23-037

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
Finance & Audit – 03/14/23Board Meeting Date
March 15, 2023

TO						TO							
1.	Tasha Crawford					7.	Jennifer Davidson						
2.	Robert Adams					8.	Scott Martin						
3.	Amber Steeves					9.	Jose Bodipo-Memba						
4.	Ed Hamzawi					10.							
5.	Casey Fallon					11.	Legal						
6.	Lora Anguay					12.	CEO & General Manager						
Consent Calendar		X	Yes		No <i>If no, schedule a dry run presentation.</i>		Budgeted	X	Yes		No <i>(If no, explain in Cost/Budgeted section.)</i>		
FROM (IPR) Andrew McDermott					DEPARTMENT Procurement					MAIL STOP EA404		EXT. 5862	DATE SENT 2/21/23

NARRATIVE:

Requested Action: Authorize the Chief Executive Officer and General Manager to award a sole source contract to the Sacramento Tree Foundation to provide shade trees to SMUD customers during the period May 1, 2023, through April 30, 2026, for a not-to-exceed amount of \$3,876,000.

Summary: Since 1990, in collaboration with Sacramento Tree Foundation (STF), SMUD has provided shade trees to customers. Over this period, STF and SMUD have provided more than 650,000 trees to customers and established a nationally recognized program that has received numerous awards and is one of the most recognized and valued programs by our customers. The initial primary goals of this program were to reduce summer cooling costs and help reduce summer peak demand for electricity by shading homes through strategic placement and selection of tree species and customer education/stewardship. Over the years, additional goals and benefits have been included in the program such as community tree plantings as well as mitigation of urban heat island effects, air quality improvements, and carbon sequestration. While this contract will continue to provide all these benefits to our customers, it will include a greater emphasis on community plantings and a focus on increasing the tree canopy in under-canopied/under-resourced neighborhoods.

STF has been effectively and efficiently delivering the Shade Tree program for SMUD for over thirty (30) years in the greater Sacramento region. They are a local, non-profit, community-based organization with a mission to grow healthy, livable communities in the Sacramento region by building the best regional urban forest in the nation. STF has over 40 years of experience (since 1982) in urban forestry management practices. STF is therefore uniquely positioned in the Sacramento region with extensive long-term relationships with local and regional tree growers, retail nurseries and urban community foresters. There are no other urban forestry organizations in the region that could deliver this type of the urban tree planting program; therefore, issuing a competitive solicitation would be an idle act. During the past 40 years, STF has established a history of expertise and success in delivering this type of unique urban tree planting program for SMUD. It is in the best interest of SMUD to award a sole source contract to STF.

Recommendation: Award a sole source contract to the Sacramento Tree Foundation

Award to:

Sacramento Tree Foundation
6011 Midway Street
Sacramento, CA 95828

Board Policy: Board-Staff Linkage BL-8, Delegation to the Chief Executive Officer and General Manager with Respect to Procurement; Procurement; Strategic Direction SD-5, Customer Relations; promoting shade trees to communities and customers across segments, providing excellent customer service throughout the process to help raise Value for What You Pay (VFP) score. Strategic Direction SD-7, Environmental Leadership; promoting energy efficiency, reduction of greenhouse gases and proactively engaging customer owners by encouraging them to plant and care for their shade trees. Strategic Direction SD-15, Outreach and Communication; making a concerted effort to focus on underserved communities and provide equitable tree canopy for all customers in all neighborhoods and community.

Benefits: To provide shade trees to SMUD customers and provide energy savings, enhanced property values, and increased environmental benefits.

Cost/Budgeted: \$3,876,000; Budgeted for 2023-2026 by Advanced Energy Solutions.

Alternatives: The alternative to not awarding this sole source contract is to not offer shade trees to SMUD customers. Given this program is most frequently associated as a highly valued customer benefit, this scenario will likely negatively impact customer satisfaction and community outreach.

Affected Parties: Advanced Energy Solutions, Supply Chain Services, and Contractor.

Coordination: Advanced Energy Solutions and Contract Manager, and Supply Chain Services.

Presenter: Ed Hamzawi, Director, Advanced Energy Solutions

Additional Links:

SUBJECT

Sole Source Contract Award to Sacramento Tree Foundation (2023-2026)

ITEM NO. (FOR LEGAL USE ONLY)

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

SSS No. SCS 23-041

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
Finance & Audit – 03/14/23Board Meeting Date
March 15, 2023

TO				TO			
1.	Robert Adams			7.	Jennifer Davidson		
2.	Jaspal Singh			8.	Jose Bodipo-Memba		
3.	Amber Connors			9.	Lora Anguay		
4.	Casey Fallon			10.			
5.	Suresh Kotha			11.	Legal		
6.	Scott Martin			12.	CEO & General Manager		
Consent Calendar		X	Yes	Budgeted		X	Yes
FROM (IPR)		DEPARTMENT		MAIL STOP		EXT.	
Tasha Crawford		Procurement		EA404		6205	
						DATE SENT	
						2/27/2023	

NARRATIVE:

Requested Action: Approve Contract Change No. 1 to Contract No. 4600001124 with OPEN SYSTEMS INTERNATIONAL, INC. to increase the contract amount by \$12,550,000, from \$10,256,189 to \$22,806,189 for the addition of a new OUTAGE MANAGEMENT SYSTEM.

Summary: This contract was awarded on a competitive basis to Open Systems International, Inc. (OSI) on February 15, 2018, under Board Resolution Number 18-02-08. The original contract was awarded for the period from February 19, 2018, through February 18, 2028, for a not-to-exceed amount of \$10,256,189. The original Joint Collaboration Agreement was awarded for the Advanced Distribution Management System and Distributed Energy Resources Management System (ADMS/DERMS) including implementation, licenses and maintenance and support. The original contract provided initial license costs for the Outage Management System (OMS) pending a successful ADMS/DERMS implementation and additional due diligence from SMUD. This Contract Change 1 to add \$12,550,000 is required to move forward with the implementation, as-needed enhancements, licenses, maintenance, and support of the OSI OMS. This change allows for SMUD to realize the benefits of a single, integrated ADMS/OMS platform and the replacement of the current end-of-life OMS. This effort will result in an improved customer and workforce experience, upgraded cybersecurity, increased functionality and process efficiencies. SMUD staff conducted an in-depth analysis for the OMS replacement or upgrade project and determined that optioning the OSI OMS was in the best interest of SMUD. OSI's product is the only product that supports the long-term strategy of a fully integrated platform and offers the required functionality to support SMUD's objectives long term. SMUD negotiated a discount of approximately \$2.6M (23%) and the pricing is considered fair and reasonable.

Currently, the contract balance is approximately \$4,691,809.

Contract Actions	Amount	Cumulative Total	Description
Original Contract	\$10,256,189		
Change No. 01	\$12,550,000	\$22,806,189	Implementation of the OMS

Board Policy: Board-Staff Linkage BL-8, Delegation to the Chief Executive Officer and General Manager with Respect to Procurement; Procurement; Strategic Direction SD-5, Customer Relations, improved customer experience.

Benefits: Replace the end-of-life OMS with a new, fully integrated ADMS/OMS platform for an improved customer and workforce experience, enhanced cybersecurity, and increased functionality and efficiencies.

Cost/Budgeted: \$12,550,000; Budgeted for 2023-2029 by IT, Strategic Initiatives

Alternatives: SMUD could solicit for a new OMS which would be an idle act as only the OSI OMS offers the ability to leverage a fully integrated ADMS/OMS platform.

Affected Parties: IT, Supply Chain Services, and Contractor.

Coordination: IT and Supply Chain Services.

Presenter: Amber Connors, Director, IT Strategic Initiatives

Additional Links:

SUBJECT

**Contract Change No. 1 to
Contract No. 4600001124 with Open Systems International, Inc.**

ITEM NO. (FOR LEGAL USE ONLY)

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

SSS No.
AQS 2023-3

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date
Finance & Audit
March 14, 2023
Board Meeting Date
N/A

TO				TO			
1.	Jennifer Davidson	6.					
2.	Lora Anguay	7.					
3.	Scott Martin	8.					
4.	Jose Bodipo-Memba	9.	Legal				
5.		10.	CEO & General Manager				
Consent Calendar	Yes	No If no, schedule a dry run presentation.	Budgeted x Yes				
FROM (IPR)	DEPARTMENT	MAIL STOP	EXT. DATE SENT				
Claire Rogers	Audit and Quality Services	ME-2	7122 2/17/23				
NARRATIVE:							
Requested Action: Informational agenda item to provide Board Members with the opportunity to ask questions and/or discuss recent reports issued by Audit and Quality Services.							
Summary: Reports Issued by Audit and Quality Services:							
Title		Report Number					
• Customer Programs		28007540					
Board Policy: Board-Staff Linkage, Board-Internal Auditor Relationship (BL-3)							
<i>(Number & Title)</i>							
Benefits: n/a							
Cost/Budgeted: n/a							
Alternatives: n/a							
Affected Parties: Board, Internal Auditor							
Coordination: n/a							
Presenter: Claire Rogers							

Additional Links:

SUBJECT	Reports Issued by Audit and Quality Services	ITEM NO. (FOR LEGAL USE ONLY)
---------	--	-------------------------------

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.

Customer Programs

Executive Summary

Audit and Quality Services' (AQS) has completed a review of SMUD's Customer Programs. The purpose of the audit was to evaluate the processes in place to deliver and manage residential and commercial customer programs. This audit was included in the 2023 AQS Audit Plan.

Advanced Energy Solutions (AES) is responsible for the planning and implementation of residential and commercial programs and products in support of SMUD's 2030 Zero Carbon Plan goals. They rely on third party contractors, or program administrators, to administer certain programs and to monitor and evaluate installation work performed by contractors in customers' businesses and residences.

AQS selected and reviewed four customer programs—two residential and two commercial programs—that are administered by third parties to determine whether the contracts were adequately monitored and whether program administrators complied with the terms of the contract. All of the contracts in our sample included the required elements of a contract, as required by SMUD's procurement manual.

We found that the program administrators appeared to adequately monitor contractors, when applicable, and also provided program managers with evidence that they monitored contractor performance. We also confirmed that AES' program managers monitored the contracts and were able to demonstrate the program administrator's compliance with contract requirements. Where applicable, we determined that the adequate completion of projects was confirmed by the program manager. Finally, we selected a sample of invoices associated with each contract and determined that they were supported, accurate, calculated correctly, and that they were paid after the work was performed.

AQS commends AES for their commitment to SMUD customers and for their efforts to help SMUD achieve its 2030 zero carbon goal. We would like to thank AES staff for their cooperation and support in conducting this audit.

ERM Dashboard**Changing Customer Expectations**



Audit & Quality Services

Customer Programs

Audit Report #28007540



Customer Programs

Audit & Quality Services Report

Background:

Audit and Quality Services (AQS) has completed a review of SMUD's Customer Programs. The purpose of the audit was to evaluate the processes in place to deliver and manage residential and commercial customer programs. This audit was included in the 2023 AQS Audit Plan.

Advanced Energy Solutions (AES) is responsible for research and development, as well as planning and implementation of residential and commercial programs and products in support of SMUD's 2030 Zero Carbon Plan goals. Specifically, the Commercial Program Implementation team is responsible for the delivery of the ever-evolving advanced energy-related products and services desired by commercial customers. Both the Residential Program Implementation and Commercial Program Implementation teams provide building electrification, energy efficiency, renewable energy/distributed generation, green pricing/carbon reduction, electric vehicle, and demand response/energy storage products and services to customers with best-in-class service and customized solutions.

The commercial and residential program implementation teams rely on third party contractors, or program administrators, to administer certain programs and to monitor and evaluate installation work performed by contractors in customers' businesses and residences. Contractors may be recommended by the program administrator or through SMUD's Contractor Network, but are selected, hired, and paid directly by the customers.

Scope:

For the purposes of this audit, "program administrator" refers to the contracted third party implementing the customer programs in our sample; "contractor" refers to the contractors hired by the customer to complete appliance installation or other work; and "program manager" refers to the AES staff person responsible for managing the contract and overseeing the program. The scope of this audit included all Customer Programs contracts that were active in 2022, and all related contract documentation including but not limited to program administrator reports, invoices, invoice support, tracking sheets and dashboards, meeting notes, and emails.

Objective:

The objective of this audit was to determine whether residential and commercial customer program contracts are adequately monitored, and whether program administrators are complying with the terms of the contract.

Summary:

AQS interviewed AES staff to learn about processes related to programs administered by third parties. We reviewed all policies and procedures related to customer programs,

as well as relevant SMUD Board Policies. We also reviewed Customer Program contracts and reviewed all documentation associated with these contracts including program reports, invoices, invoice support, tracking sheets and dashboards, meeting notes, and emails.

We selected two residential and two commercial customer programs that are managed by AES staff but administered by a contracted third party to determine whether the contracts were adequately monitored and whether program administrators complied with the terms of the contract. Specifically, we reviewed Advanced Home Solutions, which is administered by Efficiency First California; Residential Drive Electric, which is administered by Plug In America; Complete Energy Solutions, which is administered by TRC Engineers, Inc.; and the Multifamily Program, which is administered by the Association for Energy Affordability.

All of the contracts in our sample included the required elements of a contract, as required by SMUD's procurement manual. We found the program administrators appeared to adequately monitor contractors, when applicable, and also provided program managers with evidence that they monitored contractor performance. We also confirmed that AES' program managers monitored the contracts and were able to demonstrate the program administrator's compliance with contract requirements. Where applicable, we determined that the adequate completion of projects was confirmed by the program manager. Finally, we selected a sample of invoices associated with each contract and determined that they were supported, accurate, and calculated correctly, and that they were paid after the work was performed.

Conclusion:

AES program managers work closely with contracted program administrators and maintain consistent communication about the status of ongoing projects. Residential and commercial customer program contracts are adequately monitored by AES program managers, and program administrators appear to be complying with the terms of their contracts.

AQS commends AES for their commitment to SMUD customers and their efforts to help SMUD achieve its 2030 zero carbon goal. We would like to thank AES staff for their cooperation and support in conducting this audit.

SSS No.

BOD 2022-020

BOARD AGENDA ITEM

STAFFING SUMMARY SHEET

Committee Meeting & Date

2023

Board Meeting Date

N/A

TO					TO				
1.	Jennifer Davidson				6.				
2.	Jose Bodipo-Memba				7.				
3.	Scott Martin				8.				
4.	Lora Anguay				9.	Legal			
5.					10.	CEO & General Manager			

Consent Calendar		Yes	x	No If no, schedule a dry run presentation.	Budgeted	Yes	No (If no, explain in Cost/Budgeted section.)		
FROM (IPR) Rob Kerth / Donna Lofton				DEPARTMENT Board Office			MAIL STOP B307	EXT. 5079	DATE SENT 12/27/22

NARRATIVE:

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

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

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

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

Cost/Budgeted: Included in budget

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

Affected Parties: Board of Directors and Executive Staff

Coordination: Donna Lofton, Special Assistant to the Board

Presenter: Rob Kerth, Finance and Audit Chair

Additional Links:

SUBJECT

Summary Of Committee Direction – Finance and Audit

ITEM NO. (FOR LEGAL USE ONLY)

ITEMS SUBMITTED AFTER DEADLINE WILL BE POSTPONED UNTIL NEXT MEETING.