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Financial Statements

Report of Independent  
Auditors

.....

December 31, 2020 and 2019



**SACRAMENTO MUNICIPAL UTILITY DISTRICT**  
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**As of and for the Years Ended December 31, 2020 and 2019**

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## **Independent Auditors' Report**

To the Board of Directors of  
Sacramento Municipal Utility District

### **Report on the Financial Statements**

We have audited the accompanying financial statements of Sacramento Municipal Utility District, as of and for the years ended December 31, 2020 and 2019, and the related notes to the financial statements, which collectively comprise Sacramento Municipal Utility District's basic financial statements as listed in the table of contents.

### **Management's Responsibility for the Financial Statements**

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes 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.

### **Auditors' Responsibility**

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with 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. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control over financial reporting relevant to Sacramento Municipal Utility District's preparation and fair presentation of the financial statements 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 Sacramento Municipal Utility District's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

### **Opinion**

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of Sacramento Municipal Utility District as of December 31, 2020 and 2019, and the respective changes in financial position and cash flows thereof for the years then ended in accordance with accounting principles generally accepted in the United States of America.

## **Other Matter**

### *Required Supplementary Information*

Accounting principles generally accepted in the United States of America require that the required supplemental information as listed in the table of contents be presented to supplement the basic financial statements. Such information, 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 issued our report dated February 19, 2021, on our consideration of 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 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 Sacramento Municipal Utility District's internal control over financial reporting and compliance.

*Baker Tilly US, LLP*

Madison, Wisconsin  
February 19, 2021

**Sacramento Municipal Utility District  
Management's Discussion and Analysis - Unaudited  
For the Years Ended December 31, 2020 and 2019**

**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, 2020 and 2019. This discussion and analysis should be read in conjunction with the 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 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.

**Nature of Operations**

Under provisions of California's Municipal Utility District Act, the citizens of Sacramento voted in 1923 to form their own electric utility – SMUD. The independently run community-owned utility began operations on December 31, 1946 and is not subject to regulation or oversight by the California Public Utilities Commission. It is now the sixth largest community-owned electric utility in the nation.

Governed by an elected board of directors (Board), SMUD has the rights and powers to fix rates and charges for commodities and services it furnishes, incur indebtedness, and issue bonds or other obligations. 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. Its purpose is to enhance the quality of life for its customers and community through creative energy solutions. 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.

In 2018, SMUD began rolling out the transition to Time-of-Day (TOD) rates to better align with the cost of providing electricity, send more accurate price signals to customers, and give customers the opportunity to better manage their electricity bills by shifting usage to lower-cost time periods. In 2020, after the first full year of TOD, SMUD showed a lower energy consumption and a 130 MW reduction in peak load, surpassing our environmental, peak load reduction and financial goals set for TOD. In June 2019, the Board approved a 3.75 percent rate increase effective January 2020, 3.0 percent rate increase effective October 1, 2020, 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. Additionally, the Board approved a restructuring of the commercial rates and increases in the fixed bill components, such as the System Infrastructure Fixed Charge and demand charges along with a decrease in energy charges. Due to COVID-19, the Board delayed the implementation of the Commercial Rate Restructure for one year to be effective not later than May 31, 2022. Even with these increases, SMUD's rates continue to remain amongst the lowest in the state. In 2020, the average system rate was 35.0 percent below the average rate of the nearest investor-owned utility.

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.

### **COVID-19 Global Pandemic**

In response to national, state, and local mandates, in mid-March SMUD ordered its non-essential employees to work remotely and reduced critical workforce onsite. SMUD continues to support its customers during the COVID-19 pandemic. 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 through April 2021. 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. As a result, SMUD increased its uncollectable reserve for account write-offs to \$45.0 million as of December 31, 2020. Other financial and operational impacts to SMUD associated with COVID-19 are noted throughout this report.

### **Financial & Operational Highlights**

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, our 2030 Clean Energy Vision calls for absolute zero carbon emission in our power supply by 2030. It's an aggressive and nation-leading goal and a dedicated team is now developing our 2030 Zero Carbon Plan, which will be presented to the Board in March 2021. To achieve zero carbon by 2030, we must address our reliability needs, and we see much promise in technologies such as long duration energy storage, flexible load, and renewable power-to-gas technologies.

Due to our strong credit rating and financial strength, SMUD was one of the first utilities able to issue debt after the debt markets froze due to COVID-19. This shows the importance of maintaining our strong credit rating of AA by two of the three major rating agencies and continuing to monitor our financial metrics by exceeding the Board's policy for a minimum fixed charge coverage ratio of 1.50 times of annual budgets. Our successful issuance of \$400.0 million of new debt in May was used to reimburse SMUD for 2018 and 2019 capital projects and paid off all the outstanding commercial paper notes. This included the issuance of \$25.2 million of Green Bonds, which reimbursed SMUD for capital expenditures tied to South Fork Powerhouse, Jones Powerhouse, and the Rancho Seco II Solar interconnection. This was SMUD's second green bond

issuance. Paying off our commercial paper notes frees up additional capacity for future capital expenditures, provides reserves for any unforeseen circumstances and creates flexibility in choosing when to issue new debt. SMUD ended the year strong with more than 150 days cash on hand and over \$168.0 million in the rate stabilization funds.

In 2020, SMUD was recognized by its residential and commercial customers as the top California utility by J.D. Power, receiving its highest scores ever. SMUD also received recognition for its efforts in innovations and environmental stewardship. SMUD developed and released the Sustainable Communities Resource Priorities Map to drive community support to under resourced neighborhoods. The map has logged over 3,500 unique hits since launch and has gained adoption by over 10 local jurisdictions. In addition, approximately 24.0 percent of contract dollars were awarded to small, local businesses.

SMUD has continued to grow its Greenergy® program and is now one of the largest of its kind in the nation. The program was redesigned in 2020 to now focus on carbon savings in addition to renewable energy to provide consistency and alignment with our 2040 Carbon Plan. In February 2020, the California Energy Commission approved SMUD to offer the Neighborhood SolarShares® program as an alternative to the 2019 solar mandate for new low-rise, residential homes.

In 2014, FERC issued a fifty-year license for the Upper American River Project (UARP) which consists of three relatively large storage reservoirs and eight powerhouses containing eleven turbines. The UARP is one of SMUD's lowest cost power sources. In addition to providing clean hydroelectric power and operational flexibility, it provides habitat for fish and wildlife and a variety of recreational opportunities, including camping, fishing, boating, hiking, horseback riding, mountain biking, and cross-country skiing. The combined capacity of the UARP is approximately 673 MW and represents about 15.0 percent of SMUD's average annual retail energy requirements. SMUD's other power generation facilities include a 3 MW of solar photovoltaic installations, 230 MW Solano Wind Project (Phase 1-3), and five local gas-fired power plants with total capacity of approximately 1,103 MW. In addition, SMUD has entered into several power purchase agreements to help meet its remaining power requirements.

As part of the hydro relicensing process, SMUD entered into long-term contracts to provide certain services to four different government agencies – U.S. Department of Interior Bureau of Land Management, U.S. Department of Agriculture Forest Service, El Dorado County, and the California Department of Parks and Recreation. At December 31, 2020, the liability for these contract payments was \$64.8 million.

As of December 2020, SMUD's total reservoir storage in the UARP was about 51.0 percent of capacity, approximately 8.0 percent below the historical average for this date. SMUD manages its reservoirs to maximize water storage going into the summer season and thereby preserving generating capacity during SMUD's high load months. Although reservoir levels in the UARP are only slightly below historical averages, there remains the potential for wide swings in precipitation from year to year and dry conditions could return again in any year. In years with below average rainfall, SMUD may have to generate or purchase replacement energy at additional cost. A Hydro Rate Stabilization Fund (HRSF) was established to help absorb higher energy costs when hydroelectric production is down and to serve as a buffer against unexpected financial developments. In April 2020, \$7.7 million was transferred from the HRSF due to below average precipitation. The balance in the HRSF at December 31, 2020 was \$74.7 million.

SMUD also has a long-term agreement with the Western Area Power Administration (WAPA) to purchase power generated by the Central Valley Project, a series of federal hydroelectric facilities operated by the U.S. Bureau of Reclamation. SMUD uses a Rate Stabilization Fund (RSF) to offset any excess or deficits in WAPA energy deliveries. Due to excess deliveries by WAPA, \$1.6 million was transferred to the RSF in 2020. SMUD also participates in carbon allowance auctions under California Assembly Bill 32 (AB-32), the Global Warming Solutions Act. Proceeds from these auctions are recognized with related expenses. When proceeds from these auctions exceed related expenses the difference is deferred into future years. SMUD participates in the Low Carbon Fuel Standards (LCFS) program under AB-32, which is designed to reduce greenhouse gas emissions associated with the lifecycle of transportation fuels used in California.



SMUD receives credit from this program which are then sold. Revenue from these sales are recognized with related expenses. When proceeds from these sales exceed related expenses the difference is deferred into future years. In 2020, amounts transferred from the RSF to revenue for related expenses for AB-32 and LCFS sales amounted to \$4.1 million. In 2020, the Board authorized SMUD to transfer \$35.0 million from revenue to the RSF to offset future one-time specific expenses which may have a significant financial impact on SMUD. This will provide reserves to cover large contingencies while limiting or leveling out the impact of cost increases to ratepayers. At December 31, 2020, the balance of the RSF was \$94.0 million.

## **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 \$104.0 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 \$99.5 million as of December 31, 2020.

## **Employee Relations and Benefits**

SMUD has a four-year memorandum of understanding (MOU) with both of its collective bargaining units, the International Brotherhood of Electrical Workers Local Union 1245, and the Organization of SMUD Employees that is effective through 2021. Both contracts contain a no-strike/no-lockout clause effective during the life of the agreements. In October 2019 SMUD began operating under an MOU for the Public Safety Officers' Association that is effective through 2021. This contract also contains a no-strike/no-lockout clause effective during the life of the agreement.

SMUD participates in the California Public Employees' Retirement System (PERS), an agent multiple-employer public employee defined benefit pension plan. SMUD reports the Net Pension Liability (NPL), which 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, in its Statements of Net Position. At December 31, 2020, the NPL was \$469.8 million. SMUD elected to follow accounting for regulated operations under GASB SGAS No. 62, "***Codification of Accounting and Financial Reporting Guidance Contained in Pre-November 30, 1989 FASB and AICPA Pronouncements***," (GASB No. 62) and as of December 31, 2020, the balance of the regulatory asset for pension amounted to \$374.6 million. Amortization of the regulatory asset began in 2018 over a period of 25 years. In 2020, as part of a ten-year funding strategy for the unfunded liability, SMUD made an additional \$99.0 million in supplemental contributions to the plan as part of this strategy.

SMUD provides other postemployment benefits (OPEB) to all employees who retire from SMUD and their dependents, in accordance with SMUD policy and MOUs. These benefits are funded through the PERS California Employer's Retiree Benefit Trust, an agent multiple-employer plan. In 2018, SMUD implemented SGAS No. 75 "***Accounting and Financial Reporting for Postemployment Benefits Other than Pensions***" (GASB No. 75). The primary objective of GASB No. 75 is to improve accounting and financial reporting by state and local governments for postemployment benefits other than pensions. SMUD is required to report the Net OPEB Liability (NOL) or Net OPEB Asset (NOA), which is the difference between the actuarial present value of projected OPEB benefit payments attributable to employees' past service and the OPEB plan's fiduciary net position, in its Statements of Net Position. At December 31, 2020, the NOA was \$1.0 million. SMUD elected to follow accounting for regulated operations under GASB No. 62 and recorded a regulatory asset and as of December 31, 2020, the balance of the regulatory asset for OPEB amounted to \$306.6 million. Amortization of the regulatory asset began in 2020 over a period of 25 years.

### **Developments in the Energy Market**

New developments in the energy market at both the federal and state level kept SMUD on high alert as it continued to monitor and address the potential impacts on the organization. Legislation at the federal level include policies on cyber security, regulations related to transmission access, the North American Electric Reliability Corporation reliability standards, anti-market manipulation rules, advance refunding or refinancing municipal bonds and GHG emissions. Legislation at the state level includes bills that provide for GHG standards and greater investment in energy efficiency, mandate rooftop solar, renewable portfolio standards, wildfire mitigation and ongoing regulatory proceedings related to Sacramento - San Joaquin River Bay - Delta processes.

### **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, 2020, total regulatory assets were \$742.6 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, 2020, total regulatory credits were \$516.2 million.

### **Requests for Information**

For more information about SMUD, visit our website at [www.smud.org](http://www.smud.org) or contact us at [customerservices@smud.org](mailto:customerservices@smud.org)

## **FINANCIAL POSITION**

### CONDENSED STATEMENTS OF NET POSITION

|                                                                       | <u>2020</u>     | <u>December 31,</u><br><u>2019</u> | <u>2018 (restated)*</u> |
|-----------------------------------------------------------------------|-----------------|------------------------------------|-------------------------|
|                                                                       |                 | (millions of dollars)              |                         |
| Assets                                                                |                 |                                    |                         |
| Electric Utility Plant - net                                          | \$ 3,747        | \$ 3,626                           | \$ 3,517                |
| Restricted and Designated Assets                                      | 187             | 173                                | 120                     |
| Current Assets                                                        | 1,239           | 933                                | 960                     |
| Noncurrent Assets                                                     | <u>1,516</u>    | <u>1,606</u>                       | <u>1,620</u>            |
| Total Assets                                                          | 6,689           | 6,338                              | 6,217                   |
| Deferred Outflows of Resources                                        | <u>271</u>      | <u>238</u>                         | <u>229</u>              |
| Total Assets and Deferred Outflows of Resources                       | <u>\$ 6,960</u> | <u>\$ 6,576</u>                    | <u>\$ 6,446</u>         |
| Liabilities                                                           |                 |                                    |                         |
| Long-Term Debt - net                                                  | \$ 3,259        | \$ 2,944                           | \$ 2,639                |
| Current Liabilities                                                   | 437             | 491                                | 766                     |
| Noncurrent Liabilities                                                | <u>694</u>      | <u>731</u>                         | <u>730</u>              |
| Total Liabilities                                                     | 4,390           | 4,166                              | 4,135                   |
| Deferred Inflows of Resources                                         | 613             | 606                                | 586                     |
| Net Position                                                          | <u>1,957</u>    | <u>1,804</u>                       | <u>1,725</u>            |
| Total Liabilities, Deferred Inflows of Resources,<br>and Net Position | <u>\$ 6,960</u> | <u>\$ 6,576</u>                    | <u>\$ 6,446</u>         |

\*See Note 3 of the financial statements for discussion on the restatement of the December 31, 2018 Statement of Net Position.

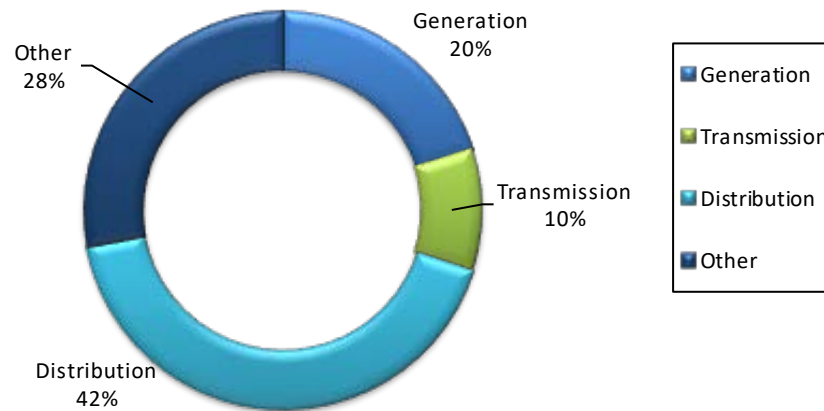
## **ASSETS AND DEFERRED OUTFLOWS OF RESOURCES**

### **2020 Compared to 2019**

- As of December 31, 2020, SMUD has invested approximately \$3,747.0 million in electric utility plant assets and construction work in progress (CWIP) net of accumulated depreciation. Electric Utility Plant - net makes up about 54 percent of SMUD's Total Assets and Deferred Outflows of Resources, which is similar to 2019. In 2020, SMUD capitalized approximately \$201.0 million of additions to electric utility plant in the Statements of Net Position. The additions were primarily due to the completion of Slab Creek, distribution line work, purchases related to the replacement of bulk substations. These additions were offset by the retirement of distribution assets, fleet equipment and communication equipment.

The following charts show the breakdown of Electric Utility Plant - net by major plant category:

### December 31, 2020



- SMUD’s restricted and designated assets are comprised of debt service reserves, nuclear decommissioning trust funds, rate stabilization fund, and other third-party agreements or Board actions, less the current portion. These assets increased \$14.1 million during 2020. The increase was due to transfers of \$25.0 million to the RSF (including the HRSF), as a result of \$35.0 million deferral of 2020 operating revenues for recognition in future years to offset one-time expenditures not identified in the annual budget, offset by HRSF transfer to revenue for below average precipitation, and funds used for low carbon and electric vehicle programs. In addition, there was a decrease of third-party agreements of \$6.7 million and decrease of \$4.3 million in revenue bond, debt service and construction reserves and the current portion.
- Total current assets increased \$305.6 million in 2020. Unrestricted cash and cash equivalents and unrestricted investments increased \$263.4 million primarily as a result of the issuance of \$400.0 million of new debt, receivables from retail customers – net increased \$23.5 million due to suspension of disconnections and collection activities amidst COVID-19 in March 2020, and inventory increased by \$12.3 million.
- Total noncurrent assets decreased \$89.7 million primarily due to decreases in unrestricted investments, regulatory costs for future recovery and prepaid gas.
- Total deferred outflows of resources increased by \$32.7 million primarily due to an increase in deferred pension and OPEB outflows of \$70.0 million offset by a decrease in accumulated decrease in fair value of hedging derivatives of 33.6 million.

### 2019 compared to 2018

- As of December 31, 2019, SMUD has invested approximately \$3,625.9 million in electric utility plant assets and construction work in progress (CWIP) net of accumulated depreciation. Electric Utility Plant - net makes up about 55 percent of SMUD’s Total Assets and Deferred Outflows of Resources, which is unchanged compared to 2018. In 2019, SMUD capitalized approximately \$420.4 million of additions to electric utility plant in the Statements of Net Position. The additions were primarily due to the renovation of the Headquarters building, distribution line work, purchases related to the replacement of bulk substations, investments in software and hardware and major overhauls in the Joint

Power Authorities (JPAs). These additions were offset by the divestment of the Rosa gas reserves, retirement of distribution assets, fleet equipment and communication equipment.

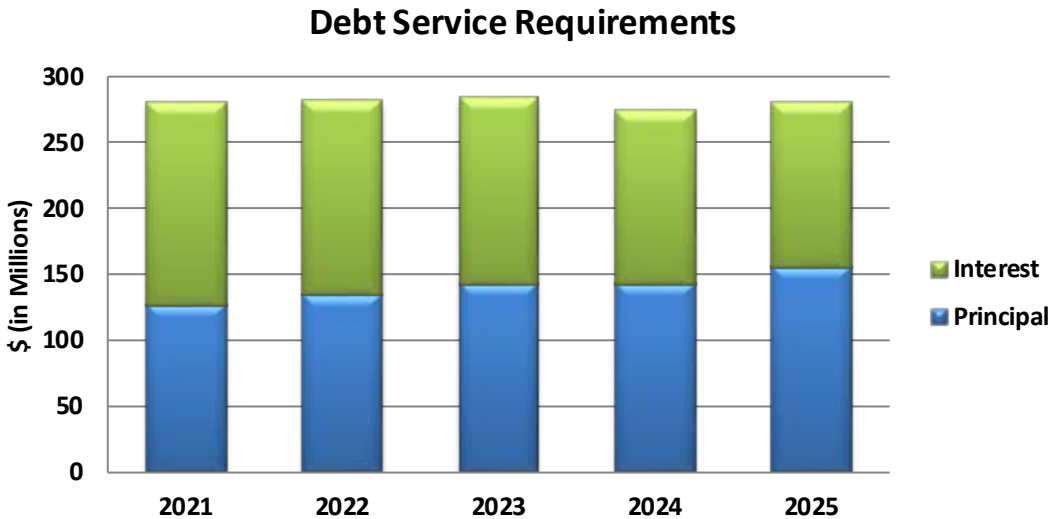
- SMUD’s restricted and designated assets increased \$53.0 million during 2019. The increase was due to transfers of \$47.0 million to the RSF (including the HRSF), as a result of a above average precipitation, higher energy deliveries from WAPA and excess AB-32 auction and LCFS credit sales. In addition, there was an increase of third-party agreements of \$16.4 million, offset by a decrease of \$10.6 million in revenue bond, debt service and construction reserves and the current portion.
- Total current assets increased \$55.9 million in 2019. Unrestricted cash and cash equivalents increased \$44.3 million, regulatory costs to be recovered within one year increased by \$12.8 million, unrestricted investments increased by 11.5 million, and prepayments and other increased by \$7.7 million. These increases were offset by a decrease in prepaid gas of \$22.2 million.
- Total noncurrent assets decreased \$97.9 million primarily due to decreases in unrestricted investments, regulatory costs for future recovery and prepaid gas.
- Total deferred outflows of resources increased by \$9.4 million due to an increase in deferred pension and OPEB outflows of \$14.2 million offset by a decrease in unamortized bond losses of \$4.2 million.

**LIABILITIES AND DEFERRED INFLOWS OF RESOURCES**

**2020 compared to 2019**

- In May 2020, SMUD issued \$400.0 million of 2020 Series H Revenue Bonds. Proceeds from the 2020 Series H Bonds were used to pay off all the outstanding commercial paper notes and reimburse SMUD for 2018 and 2019 capital projects. The 2020 Series H Bonds have a fixed coupon rate of 4.0 percent to 5.0 percent and a mortize from 2029 to 2050.

The following table shows SMUD’s future debt service requirements through 2025 as of December 31, 2020:



As of December 31, 2020, 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.

- Total current liabilities decreased \$54.7 million during 2020. The decrease was primarily due to pay off of commercial paper notes of \$50.0 million and decrease in hedging derivative instruments maturing within one year of \$19.1 million. This decrease was offset by an increase in purchased power payable, interest payable and long-term debt due within one year of \$18.5 million.
- Total noncurrent liabilities decreased \$36.8 million during 2020. The decrease was mainly due to a \$32.2 million decrease in the net OPEB liability and hedging derivative investments of \$14.5 million, offset by an increase in net pension liability and accrued decommissioning of \$8.8 million.
- Total deferred inflows of resources increased \$6.6 million. The increase was primarily due to regulatory credits increased by \$26.7 million and OPEB inflows increased by \$16.0 million, offset by a decrease in deferred pension inflows of \$31.8 million.

### **2019 compared to 2018**

- In July 2019, SMUD issued \$191.9 million of 2019 Series G Revenue Bonds, \$100.0 million of 2019 Series A Subordinate Revenue Bonds, and \$100.0 million of 2019 Series B Subordinate Revenue Bonds. The 2019 Series G Bonds have a fixed coupon rate of 2.375 percent to 5.0 percent and amortize from 2029 to 2041. The 2019 Series A has a fixed interest coupon rate of 5.0 percent, amortized from 2041 to 2049, with a mandatory remarketing purchase in April 2023. The 2019 Series B has a fixed coupon interest rate of 5.0 percent, amortized from 2041 to 2049, with a mandatory remarketing purchase in April 2025. Proceeds from 2019 Series G Bonds, the 2019 Series A Bonds and the 2019 Series B Bonds were used to refund outstanding commercial paper.

In September 2019, CVFA defeased \$5.4 million of 2009 Series Bonds maturing in July 2020, along with the accrued interest using CVFA's available funds. The corresponding amount was placed in an irrevocable trust which has a balance of \$5.6 million at December 31, 2019. In addition, 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 has a balance of \$13.7 million as of December 31, 2019. The defeasances resulted in a current accounting loss of \$0.8 million which is included in Interest on Debt in the Statements of Revenues, Expenses, and Changes in Net Position.

- Total current liabilities decreased \$274.4 million during 2019. The decrease was mainly due to decreases in commercial paper, accounts payables, and long-term debt due within one year of \$308.3 million, offset by increases in interest payable, and hedging derivative instruments maturing within one year of \$26.3 million.
- Total noncurrent liabilities increased \$1.0 million during 2020. The increase was mainly due to a \$13.6 million increase in the net pension liability and a \$10.1 million increase in the net OPEB liability, offset by a decrease in investment and hedging derivative investments of \$19.4 million and a decrease in accrued decommissioning of \$4.5 million.
- Total deferred inflows of resources increased \$19.6 million. Regulatory credits increased by \$46.8 million. This increase was offset by a decrease in deferred pension inflows of \$16.8 million and OPEB inflows of \$12.2 million.

## RESULTS OF OPERATIONS

### CONDENSED STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION

|                                  | <u>2020</u>           | <u>December 31,</u><br><u>2019</u> | <u>2018 (restated)*</u> |
|----------------------------------|-----------------------|------------------------------------|-------------------------|
|                                  | (millions of dollars) |                                    |                         |
| Operating revenues               | \$ 1,588              | \$ 1,559                           | \$ 1,595                |
| Operating expenses               | <u>(1,389)</u>        | <u>(1,363)</u>                     | <u>(1,353)</u>          |
| Operating income                 | 199                   | 196                                | 242                     |
| Other revenues/(expenses)        | 63                    | (19)                               | 57                      |
| Interest charges                 | <u>(109)</u>          | <u>(98)</u>                        | <u>(90)</u>             |
| Change in net position           | 153                   | 79                                 | 209                     |
| Net position - beginning of year | <u>1,804</u>          | <u>1,725</u>                       | <u>1,516</u>            |
| Net position - end of year       | <u>\$ 1,957</u>       | <u>\$ 1,804</u>                    | <u>\$ 1,725</u>         |

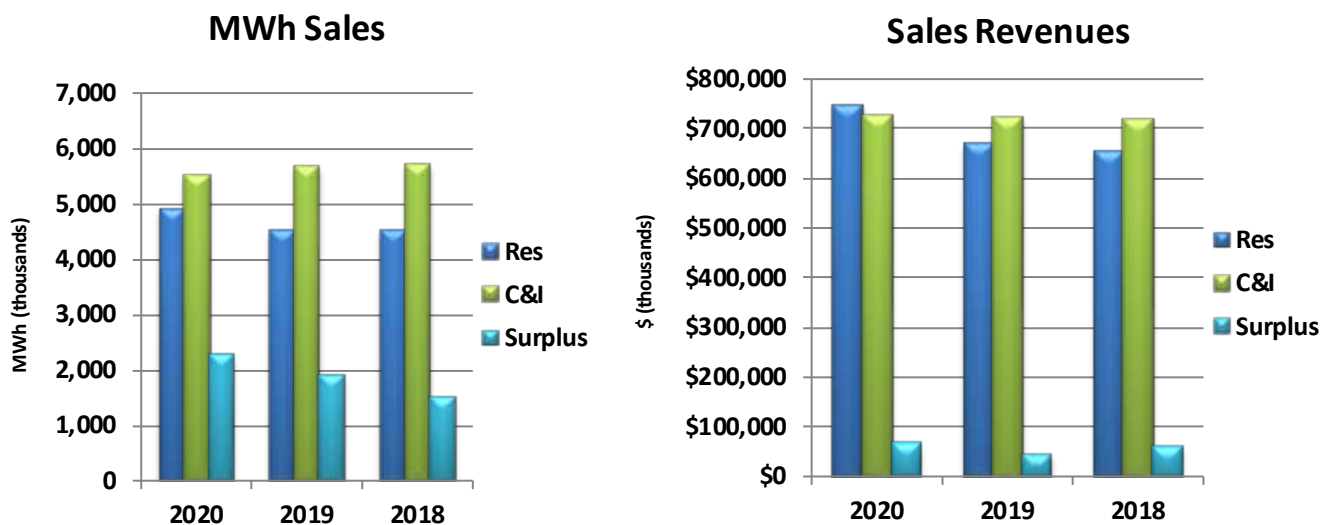
\*See Note 3 of the financial statements for discussion on the restatement of the December 31, 2018 Statement of Revenue, Expenses and Changes in Net Position.

### 2020 compared to 2019

### OPERATING REVENUES

Total operating revenues were \$1,588 million for 2020, an increase of \$28.7 million or 1.8 percent over 2019 operating revenues. In 2020, the impacts of COVID-19 led to residential MWh sales increase of 9.2 percent and sales revenues increase of 11.9 percent compared to 2019, primarily due to increased remote work from home and the unseasonably hot summer. The commercial & industrial MWh sales decreased 2.9 percent and sales revenues increased 0.6 percent compared to 2019, primarily due to the California mandated shut down and limited re-openings of commercial businesses for majority of year.

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:



The net rate stabilization transfers (including the HRSF) increased by \$21.9 million. In 2020, SMUD transferred \$48.2 million to the RSF primarily due to a \$35.0 million deferral of 2020 operating revenues for recognition in future years to offset one-time expenditures not identified in the annual budget and \$9.8 million LCFS sales. SMUD also transferred \$15.4 million from the RSF to be used for low carbon and electric vehicle programs and \$7.7 million from the HRSF as a result of a below average precipitation.

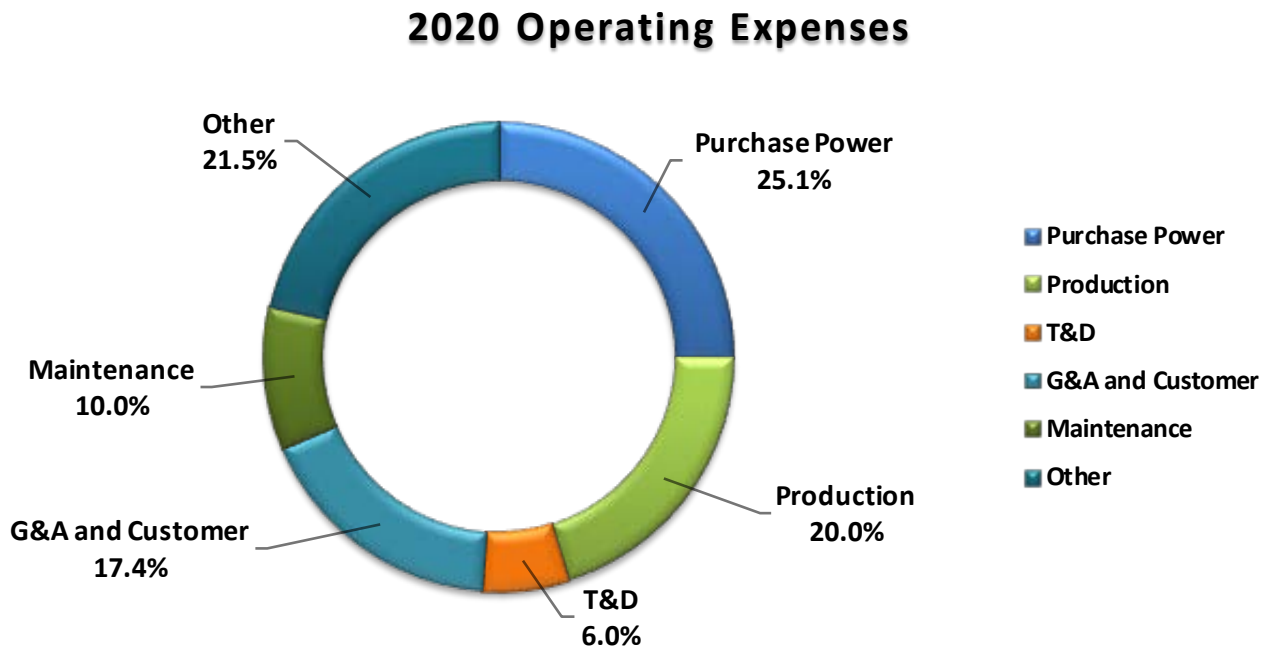
Wholesale revenues are comprised of both surplus gas and energy sales which are part of the operational strategy in managing fuel and energy costs. In 2020, energy sales were higher by \$22.3 million as compared to 2019 due to higher energy prices and energy sales. Surplus gas sales were lower than 2019 by \$32.7 million due to lower gas prices and volume of gas sold.

**OPERATING EXPENSES**

Total operating expenses were \$1,389 million for 2020, an increase of \$25.6 million or 1.9 percent over 2019.

- Purchased power increased by \$44.5 million or 14.6 percent due to higher energy purchases offset by lower prices.
- Production expense decreased by \$18.4 million or 6.2 percent due to reduction of hydro generation and fuel costs.
- General, administrative and customer decreased by \$15.9 million or 6.2 percent due to reduction in administrative and labor costs related to employees working remotely and reduction in customer programs during COVID.
- Maintenance expense increased by \$3.3 million or 2.4 percent primarily due to \$19.3 million increase in outside service costs related to wild-fire tree trimming offset by \$10.3 million decrease in thermal plant maintenance compared to 2019.
- Other expenses increased by \$15.0 million or 5.3 percent primarily due to increase of depreciation expense of \$17.0 million as a result of \$402.4 million of additions to electric utility plant in 2019.

The following chart show the breakdown of operating expenses for 2020:





## **OTHER REVENUES**

Total other revenues (net) were \$63.0 million for 2020, an increase of \$82.7 million over 2019. In 2020, SMUD received \$10.9 million related to a nearly termination of a gas prepay contract and \$5.5 million insurance proceeds on the 2017 winter storm claim. The remaining increase is primarily due to a \$52.1 million loss on the divestment of SMUD's interest in the Rosa gas properties in 2019.

### **2019 compared to 2018**

## **RESULTS OF OPERATIONS**

- Total operating revenues decreased \$36.2 million in 2019. Rate stabilization transfers decreased by \$50.2 million. In 2019, SMUD transferred \$28.6 million to the RSF as a result of higher energy deliveries from WAPA and excess proceeds from AB-32 auctions and LCFS sales. SMUD also transferred \$18.4 million to the HRSF as a result of a above average precipitation.
- In 2019, energy sales were lower by \$15.1 million as compared to 2018 due to lower energy prices offset by higher energy sales. Surplus gas sales were higher than 2018 by \$8.2 million due to higher gas prices and an increase in the volume of gas sold.
- Residential, commercial, and industrial revenues increased by \$26.2 million compared to 2018 due to the rate increase that took place in 2019.
- Total operating expenses increased \$10.0 million compared to 2018. Administrative, general and customer and maintenance expenses increased by \$32.6 million. These expenses were offset by decreases of purchased power, production and transmission and distribution expenses of \$24.1 million mainly due to lower fuel costs.
- Total other revenues were \$77.0 million lower in 2019. The decrease in other revenue as compared to 2018 is due to the divestment of SMUD's interest in the Rosa gas properties resulting in a loss of \$52.1 million. Additionally, in 2018 other revenue included a gain of \$46.7 million from the repurchase of the Solano Wind Phase 3 plant. These decreases in other revenue were offset by lower arbitration payments of \$17.0 million.

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

|                                                                      | December 31,           |                     |
|----------------------------------------------------------------------|------------------------|---------------------|
|                                                                      | 2020                   | 2019                |
|                                                                      | (thousands of dollars) |                     |
| <b>ASSETS</b>                                                        |                        |                     |
| <b>ELECTRIC UTILITY PLANT</b>                                        |                        |                     |
| Plant in service                                                     | \$ 6,425,366           | \$ 6,227,374        |
| Less accumulated depreciation and depletion                          | (3,139,526)            | (2,955,316)         |
| Plant in service - net                                               | 3,285,840              | 3,272,058           |
| Construction work in progress                                        | 461,319                | 353,802             |
| Total electric utility plant - net                                   | 3,747,159              | 3,625,860           |
| <b>RESTRICTED AND DESIGNATED ASSETS</b>                              |                        |                     |
| Revenue bond and debt service reserves                               | 121,845                | 116,527             |
| Nuclear decommissioning trust fund                                   | 8,873                  | 8,798               |
| Rate stabilization fund                                              | 168,726                | 143,669             |
| Other funds                                                          | 23,246                 | 29,953              |
| Less current portion                                                 | (135,550)              | (125,870)           |
| Total restricted and designated assets                               | 187,140                | 173,077             |
| <b>CURRENT ASSETS</b>                                                |                        |                     |
| Unrestricted cash and cash equivalents                               | 680,618                | 255,578             |
| Unrestricted investments                                             | 33,798                 | 195,435             |
| Restricted and designated cash and cash equivalents                  | 44,014                 | 41,717              |
| Restricted and designated investments                                | 91,536                 | 84,153              |
| Receivables - net:                                                   |                        |                     |
| Retail customers                                                     | 175,777                | 152,264             |
| Wholesale and other                                                  | 38,863                 | 44,271              |
| Regulatory costs to be recovered within one year                     | 38,162                 | 37,622              |
| Investment derivative instruments maturing within one year           | -0-                    | 488                 |
| Hedging derivative instruments maturing within one year              | 4,913                  | 8,732               |
| Inventories                                                          | 84,037                 | 71,719              |
| Prepaid gas to be delivered within one year                          | 23,261                 | 20,866              |
| Prepayments and other                                                | 23,915                 | 20,453              |
| Total current assets                                                 | 1,238,894              | 933,298             |
| <b>NONCURRENT ASSETS</b>                                             |                        |                     |
| Unrestricted investments                                             | -0-                    | 43,962              |
| Regulatory costs for future recovery                                 | 742,588                | 766,808             |
| Prepaid gas                                                          | 692,511                | 715,772             |
| Prepaid power and capacity                                           | 588                    | 795                 |
| Investment derivative instruments                                    | 33                     | -0-                 |
| Hedging derivative instruments                                       | 8,606                  | 7,986               |
| Energy efficiency loans - net                                        | 18,503                 | 23,262              |
| Credit support collateral deposits                                   | 5,650                  | 4,400               |
| Due from affiliated entity                                           | 28,370                 | 28,858              |
| Prepayments and other                                                | 19,038                 | 13,703              |
| Total noncurrent assets                                              | 1,515,887              | 1,605,546           |
| <b>TOTAL ASSETS</b>                                                  | <b>6,689,080</b>       | <b>6,337,781</b>    |
| <b>DEFERRED OUTFLOWS OF RESOURCES</b>                                |                        |                     |
| Accumulated decrease in fair value of hedging derivative instruments | 51,580                 | 85,194              |
| Deferred pension outflows                                            | 176,340                | 105,868             |
| Deferred other postemployment benefits outflows                      | 26,136                 | 26,658              |
| Deferred asset retirement obligations outflows                       | 1,734                  | 1,956               |
| Unamortized bond losses                                              | 15,216                 | 18,802              |
| TOTAL DEFERRED OUTFLOWS OF RESOURCES                                 | 271,006                | 238,478             |
| <b>TOTAL ASSETS AND DEFERRED OUTFLOWS OF RESOURCES</b>               | <b>\$ 6,960,086</b>    | <b>\$ 6,576,259</b> |

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

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

|                                                                           | December 31,           |                     |
|---------------------------------------------------------------------------|------------------------|---------------------|
|                                                                           | 2020                   | 2019                |
|                                                                           | (thousands of dollars) |                     |
| <b>LIABILITIES</b>                                                        |                        |                     |
| <b>LONG-TERM DEBT - net</b>                                               | \$ 3,259,312           | \$ 2,943,795        |
| <b>CURRENT LIABILITIES</b>                                                |                        |                     |
| Commercial paper notes                                                    | -0-                    | 50,000              |
| Accounts payable                                                          | 101,396                | 103,829             |
| Purchased power payable                                                   | 33,335                 | 26,997              |
| Credit support collateral obligation                                      | 4,413                  | 3,235               |
| Long-term debt due within one year                                        | 127,390                | 118,305             |
| Accrued decommissioning                                                   | 6,751                  | 5,649               |
| Interest payable                                                          | 52,940                 | 49,832              |
| Accrued salaries and compensated absences                                 | 44,703                 | 45,403              |
| Investment derivative instruments maturing within one year                | 1,401                  | 2,235               |
| Hedging derivative instruments maturing within one year                   | 22,284                 | 41,374              |
| Customer deposits and other                                               | 41,887                 | 44,379              |
| Total current liabilities                                                 | 436,500                | 491,238             |
| <b>NONCURRENT LIABILITIES</b>                                             |                        |                     |
| Net pension liability                                                     | 469,820                | 467,647             |
| Net other postemployment benefits liability                               | -0-                    | 32,211              |
| Accrued decommissioning                                                   | 92,723                 | 86,054              |
| Investment derivative instruments                                         | 7,903                  | 8,769               |
| Hedging derivative instruments                                            | 29,296                 | 43,820              |
| Self insurance and other                                                  | 94,238                 | 92,304              |
| Total noncurrent liabilities                                              | 693,980                | 730,805             |
| <b>TOTAL LIABILITIES</b>                                                  | <b>4,389,792</b>       | <b>4,165,838</b>    |
| <b>DEFERRED INFLOWS OF RESOURCES</b>                                      |                        |                     |
| Accumulated increase in fair value of hedging derivative instruments      | 13,519                 | 16,718              |
| Regulatory credits                                                        | 516,209                | 489,486             |
| Deferred pension inflows                                                  | 14,212                 | 45,996              |
| Deferred other postemployment benefits inflows                            | 58,854                 | 42,859              |
| Unamortized bond gains                                                    | 6,504                  | 7,516               |
| Unearned revenue                                                          | 3,484                  | 3,569               |
| <b>TOTAL DEFERRED INFLOWS OF RESOURCES</b>                                | <b>612,782</b>         | <b>606,144</b>      |
| <b>NET POSITION</b>                                                       |                        |                     |
| Net investment in capital assets                                          | 1,112,982              | 1,284,694           |
| Restricted:                                                               |                        |                     |
| Revenue bond and debt service                                             | 63,351                 | 60,744              |
| Other funds                                                               | 18,833                 | 26,828              |
| Unrestricted                                                              | 762,346                | 432,011             |
| <b>TOTAL NET POSITION</b>                                                 | <b>1,957,512</b>       | <b>1,804,277</b>    |
| <b>COMMITMENTS, CLAIMS AND CONTINGENCIES (Notes 17 and 18)</b>            |                        |                     |
| <b>TOTAL LIABILITIES, DEFERRED INFLOWS OF RESOURCES, AND NET POSITION</b> | <b>\$ 6,960,086</b>    | <b>\$ 6,576,259</b> |

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, |              |
|----------------------------------------------|-------------------------|--------------|
|                                              | 2020                    | 2019         |
|                                              | (thousands of dollars)  |              |
| <b>OPERATING REVENUES</b>                    |                         |              |
| Residential                                  | \$ 710,912              | \$ 666,477   |
| Commercial and industrial                    | 712,495                 | 714,001      |
| Street lighting and other                    | 38,493                  | 43,321       |
| Wholesale                                    | 135,522                 | 145,915      |
| Senate Bill - 1 revenue deferral             | 2,276                   | 2,765        |
| AB-32 revenue                                | -0-                     | 26,936       |
| LCFS revenue                                 | 9,762                   | 3,825        |
| Public good deferral                         | 3,501                   | 2,959        |
| Rate stabilization fund transfers            | (25,056)                | (46,975)     |
| Total operating revenues                     | 1,587,905               | 1,559,224    |
| <b>OPERATING EXPENSES</b>                    |                         |              |
| Operations:                                  |                         |              |
| Purchased power                              | 348,040                 | 303,566      |
| Production                                   | 278,236                 | 296,612      |
| Transmission and distribution                | 83,236                  | 86,230       |
| Administrative, general and customer         | 241,581                 | 257,464      |
| Public good                                  | 57,198                  | 63,572       |
| Maintenance                                  | 138,734                 | 135,420      |
| Depreciation                                 | 206,452                 | 189,469      |
| Depletion                                    | -0-                     | 4,103        |
| Regulatory amounts collected in rates        | 34,915                  | 26,389       |
| Total operating expenses                     | 1,388,392               | 1,362,825    |
| <b>OPERATING INCOME</b>                      | 199,513                 | 196,399      |
| <b>NON-OPERATING REVENUES AND EXPENSES</b>   |                         |              |
| Other revenues and (expenses):               |                         |              |
| Interest income                              | 14,291                  | 16,639       |
| Investment expense                           | (3,455)                 | (3,700)      |
| Other income (expense) - net                 | 52,186                  | (32,573)     |
| Total other revenues and (expenses)          | 63,022                  | (19,634)     |
| Interest charges:                            |                         |              |
| Interest on debt                             | 109,300                 | 104,960      |
| Allowance for funds used during construction | -0-                     | (7,110)      |
| Total interest charges                       | 109,300                 | 97,850       |
| Total non-operating revenues and (expenses)  | (46,278)                | (117,484)    |
| <b>CHANGE IN NET POSITION</b>                | 153,235                 | 78,915       |
| NET POSITION - BEGINNING OF YEAR             | 1,804,277               | 1,725,362    |
| NET POSITION - END OF YEAR                   | \$ 1,957,512            | \$ 1,804,277 |

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

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

|                                                                                                                                    | Year Ended December 31, |                   |
|------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------|
|                                                                                                                                    | 2020                    | 2019              |
|                                                                                                                                    | (thousands of dollars)  |                   |
| <b>CASH FLOWS FROM OPERATING ACTIVITIES</b>                                                                                        |                         |                   |
| Receipts from customers                                                                                                            | \$ 1,426,267            | \$ 1,423,897      |
| Receipts from surplus power and gas sales                                                                                          | 134,080                 | 153,216           |
| Other receipts                                                                                                                     | 23,660                  | 32,305            |
| Payments to employees - payroll and other                                                                                          | (406,810)               | (366,815)         |
| Payments for wholesale power and gas purchases                                                                                     | (491,480)               | (476,205)         |
| Payments to vendors/others                                                                                                         | (315,982)               | (350,465)         |
| <b>Net cash provided by operating activities</b>                                                                                   | <b>369,735</b>          | <b>415,933</b>    |
| <b>CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES</b>                                                                             |                         |                   |
| Repayment of debt                                                                                                                  | (16,675)                | (34,560)          |
| Receipts from federal and state grants                                                                                             | 10,214                  | 10,333            |
| Proceeds from insurance settlements                                                                                                | 5,500                   | -0-               |
| Interest on debt                                                                                                                   | (30,122)                | (21,223)          |
| <b>Net cash used in noncapital financing activities</b>                                                                            | <b>(31,083)</b>         | <b>(45,450)</b>   |
| <b>CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES</b>                                                                    |                         |                   |
| Construction expenditures                                                                                                          | (357,897)               | (330,412)         |
| Proceeds from land sales                                                                                                           | 479                     | 878               |
| Payments for gas fields divestment                                                                                                 | (232)                   | (8,521)           |
| Contributions in aid of construction                                                                                               | 19,551                  | 15,959            |
| Net proceeds from bond issues                                                                                                      | 483,456                 | 475,623           |
| Repayments and refundings of debt                                                                                                  | (101,630)               | (128,685)         |
| Issuance of commercial paper                                                                                                       | -0-                     | 161,250           |
| Repayments of commercial paper                                                                                                     | (50,000)                | (400,000)         |
| Interest on debt                                                                                                                   | (113,864)               | (99,822)          |
| <b>Net cash used in capital and related financing activities</b>                                                                   | <b>(120,137)</b>        | <b>(313,730)</b>  |
| <b>CASH FLOWS FROM INVESTING ACTIVITIES</b>                                                                                        |                         |                   |
| Sales and maturities of securities                                                                                                 | 386,898                 | 686,547           |
| Purchases of securities                                                                                                            | (197,811)               | (703,118)         |
| Proceeds from termination of prepaid gas contracts                                                                                 | 10,915                  | -0-               |
| Interest and dividends received                                                                                                    | 15,406                  | 16,105            |
| Investment revenue/expenses - net                                                                                                  | (3,420)                 | (3,682)           |
| <b>Net cash provided by (used in) investing activities</b>                                                                         | <b>211,988</b>          | <b>(4,148)</b>    |
| Net increase in cash and cash equivalents                                                                                          | 430,503                 | 52,605            |
| Cash and cash equivalents at the beginning of the year                                                                             | 308,108                 | 255,503           |
| <b>Cash and cash equivalents at the end of the year</b>                                                                            | <b>\$ 738,611</b>       | <b>\$ 308,108</b> |
| Cash and cash equivalents included in:                                                                                             |                         |                   |
| Unrestricted cash and cash equivalents                                                                                             | \$ 680,618              | \$ 255,578        |
| Restricted and designated cash and cash equivalents                                                                                | 44,014                  | 41,717            |
| Restricted and designated assets (a component of the total of \$187,140 and \$173,077 at December 31, 2020 and 2019, respectively) | 13,979                  | 10,813            |
| <b>Cash and cash equivalents at the end of the year</b>                                                                            | <b>\$ 738,611</b>       | <b>\$ 308,108</b> |

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, |            |
|-----------------------------------------------------------------------------------------|-------------------------|------------|
|                                                                                         | 2020                    | 2019       |
|                                                                                         | (thousands of dollars)  |            |
| Operating income                                                                        | \$ 199,513              | \$ 196,399 |
| Adjustments to reconcile operating income to net cash provided by operating activities: |                         |            |
| Depreciation                                                                            | 206,452                 | 189,469    |
| Depletion                                                                               | -0-                     | 4,103      |
| Regulatory amortization                                                                 | 34,915                  | 26,389     |
| Other Amortizations                                                                     | 24,307                  | 31,110     |
| Revenue deferred to (recognized from) regulatory credits - net                          | 19,279                  | 41,251     |
| Other (receipts) payments - net                                                         | (3,549)                 | (6,729)    |
| Changes in operating assets, deferred outflows, liabilities and deferred inflows:       |                         |            |
| Receivables - retail customers, wholesale and other                                     | (16,631)                | 14,211     |
| Inventories, prepayments and other                                                      | (14,190)                | (7,852)    |
| Credit support collateral deposits                                                      | (1,250)                 | 1,500      |
| Deferred pension outflows                                                               | (70,472)                | (2,837)    |
| Deferred other postemployment benefits outflows                                         | 522                     | (11,328)   |
| Payables and accruals                                                                   | 40,322                  | (51,429)   |
| Credit support collateral obligation                                                    | 1,178                   | 747        |
| Decommissioning                                                                         | (4,814)                 | (5,179)    |
| Net pension liability                                                                   | 2,173                   | 13,603     |
| Net other postemployment benefits liability                                             | (32,211)                | 10,145     |
| Deferred pension inflows                                                                | (31,784)                | (16,770)   |
| Deferred other postemployment benefits inflows                                          | 15,995                  | (12,165)   |
| Deferred unearned revenue                                                               | (20)                    | 1,295      |
| Net cash provided by operating activities                                               | \$ 369,735              | \$ 415,933 |

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

|                                                                       | Year Ended December 31, |           |
|-----------------------------------------------------------------------|-------------------------|-----------|
|                                                                       | 2020                    | 2019      |
|                                                                       | (thousands of dollars)  |           |
| Amortization of debt related (expenses) and premiums - net            | \$ 37,939               | \$ 30,797 |
| (Loss) Gain on debt extinguishment and refundings                     | -0-                     | (731)     |
| Unrealized holding gain (loss)                                        | 1,768                   | 4,165     |
| Change in valuation of derivative financial instruments               | 31,661                  | 8,824     |
| Amortization of revenue for assets contributed in aid of construction | 14,250                  | 16,904    |
| Allowance for funds used during construction                          | -0-                     | 7,110     |
| Construction expenditures included in accounts payable                | 39,196                  | 81,902    |
| Losses on sale and asset retirements                                  | (287)                   | (845)     |
| Loss on gas fields divestment                                         | -0-                     | (43,609)  |
| Write-off capital projects and preliminary surveys                    | (1,329)                 | (13,614)  |

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, 2020 and 2019**

**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. 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 2020 and 2019 were 3.3 percent and 3.1 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                       | 5 to 90 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).

**Investment in Gas Properties.** In 2019, SMUD sold its approximate 21 percent non-operating ownership interest in the Rosa Unit gas properties in New Mexico, of which SMUD’s portion of the extracted gas was transported to use in its component unit natural gas fired power plants. The loss on sale was \$52.1 million and included as Other income (expense) – net in the Statements of Revenues, Expenses and Changes in Net Position.

**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 \$22.6 million and \$29.3 million of Other funds as of December 31, 2020 and 2019, respectively. 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, 2020 and 2019. 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 implemented Statement of Governmental Accounting Standards (SGAS) No. 83, *“Certain Asset Retirement Obligations”* in 2019. 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, 2020 and 2019, unbilled revenues were \$68.8 and \$69.4 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 and Allowance for Doubtful Accounts.** 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. Due to COVID-19, SMUD suspended disconnections for non-payment beginning in March 2020 through April 2021. At December 31, 2020, SMUD estimated its uncollectible retail customer accounts at \$45.0 million 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.

The summarized activity of the changes in the allowance for doubtful accounts during 2020 and 2019 is presented below:

|                          | Balance at<br>beginning of<br>Year | Additions | (Write-offs)<br>and<br>Recoveries | Balance at<br>end of<br>Year |
|--------------------------|------------------------------------|-----------|-----------------------------------|------------------------------|
|                          | (thousands of dollars)             |           |                                   |                              |
| Other Non-Electric:      |                                    |           |                                   |                              |
| December 31, 2020        | \$ 2,790                           | \$ 802    | \$ 37                             | \$ 3,629                     |
| December 31, 2019        | \$ 1,509                           | \$ 2,188  | \$ (907)                          | \$ 2,790                     |
| Retail Customers:        |                                    |           |                                   |                              |
| December 31, 2020        | \$ 3,044                           | \$ 43,966 | \$ (2,010)                        | \$ 45,000                    |
| December 31, 2019        | \$ 6,005                           | \$ 3,137  | \$ (6,098)                        | \$ 3,044                     |
| Energy Efficiency Loans: |                                    |           |                                   |                              |
| December 31, 2020        | \$ 680                             | \$ (194)  | \$ 183                            | \$ 669                       |
| December 31, 2019        | \$ 637                             | \$ (483)  | \$ 526                            | \$ 680                       |

**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, 2020 and 2019, the total estimated liability for vacation and other compensated absences was \$37.7 million and \$31.3 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.

**Allowance for Funds Used During Construction (AFUDC).** SMUD capitalizes, as an additional cost of Construction Work In Progress (CWIP), AFUDC, which represents the cost of borrowed funds used for such purposes. The amount capitalized is determined by a formula prescribed by FERC. The AFUDC rate for 2019 was 2.4 percent of eligible CWIP. In 2020, SMUD implemented GASB 89 “*Accounting for Interest Cost Incurred before the End of a Construction Period*” and has discontinued including the cost of borrowed funds as an additional cost of CWIP (see Note 3).

**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 obligations for several land sites, including one where it will be building a substation (see Note 18). At December 31, 2020 and 2019, the total pollution remediation liability was \$19.3 million and \$17.8 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, 2020 and 2019, the liability for these contract payments was \$64.8 million and \$63.4 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 (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, Low Carbon Fuel Standards (LCFS) was enacted through AB-32. The CARB is responsible for the adoption and 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. The LCFS credits are sold to parties that have a compliance obligation. CARB requires that 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 Liability (NPL).** The 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).** SMUD implemented SGAS No. 75, *“Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions,”* (GASB No. 75) in 2018. 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. At December 31, 2020, SMUD’s NOA is \$0.8 million and is recorded in Prepayments and other under Noncurrent Assets on the Statements of Net Position. At December 31, 2019, SMUD’s NOL is \$32.2 million and is recorded under Noncurrent Liabilities on the Statements of 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. When applicable, these programs may be subject to financial and compliance audits pursuant to regulatory requirements. SMUD considers the possibility of any material disallowances to be remote. 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 2020 and 2019 due to budget sequestration by the federal government. SMUD recognized \$9.3 million and \$9.2 million in revenues in 2020 and 2019, respectively 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 19, 2021, which is the date that the financial statements were available to be issued.

**Reclassifications.** Certain amounts in the 2019 Financial Statements have been reclassified in order to conform to the 2020 presentation.

**Recent Accounting Pronouncements, adopted.** In January 2020, GASB issued SGAS No. 92, *“Omnibus 2020”* (GASB No. 92). This statement addresses a variety of topics and includes specific provisions to clarify issues related to leases, intra-entity transfers, pension and postemployment benefits, asset retirement obligations, risk pools, fair value measurements, and derivative instruments. This statement is effective for SMUD in 2020 or 2022 depending on the topic. SMUD has assessed the note disclosure impact of adopting the derivative instruments topic of this statement and has updated the terminology used to refer to derivative or derivatives to derivative instrument or derivative instruments, respectively (see Note 9). No other topics in this statement apply to SMUD.

In May 2020, GASB issued SGAS No. 95, *“Postponement of the Effective Dates of Certain Authoritative Guidance”* (GASB No. 95). The primary objective of this statement is to provide temporary relief to governments and other stakeholders as a result of the COVID-19 pandemic. GASB No. 95 postpones the effective dates of certain provisions in statements and implementation guides that first became effective or are scheduled to become effective for periods beginning after June 15, 2018, and later. This statement is effective for SMUD in 2020. SMUD has postponed the implementation of GASB No. 87, *“Leases”* and GASB No. 93, *“Replacement of Interbank Offered Rates.”*

**Recent Accounting Pronouncements, not yet adopted.** In June 2017, GASB issued SGAS No. 87, *“Leases”* (GASB No. 87). The objective of this statement is 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. This statement is effective for SMUD in 2022. SMUD is currently assessing the financial statement impact of adopting this statement.

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. SMUD is currently assessing the financial statement impact of adopting this statement but does not expect it to be material.

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 2020, GASB issued SGAS No. 97, ***“Certain Component Unit Criteria, and Accounting and Financial Reporting for Internal Revenue Code Section 457 Deferred Compensation Plans”*** (GASB No. 97). The primary objectives of this statement are to (1) increase consistency and comparability related to the reporting of fiduciary component units in circumstances in which a potential component unit does not have a governing board and the primary government performs the duties that a governing board typically would perform; (2) mitigate costs associated with the reporting of certain defined contribution pension plans, defined contribution other postemployment benefit (OPEB) plans, and employee benefit plans other than pension plans or OPEB plans as fiduciary component units in fiduciary fund financial statements; and (3) enhance the relevance, consistency, and comparability of the accounting and financial reporting for Internal Revenue Code Section 457 deferred compensation plans that meet the definition of a pension plan and for benefits provided through those plans. This statement is effective for SMUD in 2022. SMUD is currently assessing the financial statement impact of adopting this statement but does not expect it to be material.

### **NOTE 3. ACCOUNTING CHANGE**

In June 2018, GASB issued SGAS No. 89, ***“Accounting for Interest Cost Incurred before the End of a Construction Period”*** (GASB No. 89). The objectives of this statement are (1) to enhance the relevance and comparability of information about capital assets and the cost of borrowing for a reporting period and (2) to simplify accounting for interest cost incurred before the end of a construction period. GASB No. 89 requires that interest cost incurred before the end of a construction period be recognized as an expense in the period in which the cost is incurred for financial statements. As a result, interest cost incurred before the end of a construction period will not be included in the historical cost of a capital asset reported in a business-type activity. SMUD has assessed the financial statement impact of adopting the new statement and its impact is not material. Although GASB No. 95 postponed this statement for one year to 2021, SMUD had already implemented this statement before GASB No. 95 was issued.

Beginning January 1, 2020, SMUD recognizes interest costs incurred before the end of a construction period as an expense in the period in which the costs are incurred and no longer includes these interest costs as part of the historical cost of a capital asset. This standard is to be applied prospectively, so the interest costs already included in construction work in progress (CWIP) on December 31, 2019 will still be included as part of the historical cost of the capital asset.

#### NOTE 4. ELECTRIC UTILITY PLANT

The summarized activity of SMUD's Electric Utility Plant during 2020 is presented below:

|                                                 | Balance<br>January 1,<br><u>2020</u> | <u>Additions</u>  | Transfers<br>and<br><u>Disposals</u> | Balance<br>December 31,<br><u>2020</u> |
|-------------------------------------------------|--------------------------------------|-------------------|--------------------------------------|----------------------------------------|
|                                                 | (thousands of dollars)               |                   |                                      |                                        |
| Nondepreciable Electric Utility Plant:          |                                      |                   |                                      |                                        |
| Land and land rights                            | \$ 142,291                           | \$ 17,471         | \$ (247)                             | \$ 159,515                             |
| CWIP                                            | <u>353,802</u>                       | <u>318,354</u>    | <u>(210,837)</u>                     | <u>461,319</u>                         |
| Total nondepreciable electric utility plant     | <u>496,093</u>                       | <u>335,825</u>    | <u>(211,084)</u>                     | <u>620,834</u>                         |
| Depreciable Electric Utility Plant:             |                                      |                   |                                      |                                        |
| Generation                                      | 1,670,224                            | 43,017            | (2,821)                              | 1,710,420                              |
| Transmission                                    | 390,296                              | 21,255            | (984)                                | 410,567                                |
| Distribution                                    | 2,427,408                            | 76,335            | (5,217)                              | 2,498,526                              |
| Investment in JPAs                              | 22,844                               | 7,168             | -0-                                  | 30,012                                 |
| Intangibles                                     | 495,651                              | 21,764            | -0-                                  | 517,415                                |
| General                                         | <u>1,078,660</u>                     | <u>31,463</u>     | <u>(11,212)</u>                      | <u>1,098,911</u>                       |
|                                                 | 6,085,083                            | 201,002           | (20,234)                             | 6,265,851                              |
| Less: accumulated depreciation<br>and depletion | (2,948,350)                          | (204,088)         | 20,191                               | (3,132,247)                            |
| Less: accumulated amortization<br>on JPAs       | <u>(6,966)</u>                       | <u>(313)</u>      | <u>-0-</u>                           | <u>(7,279)</u>                         |
|                                                 | (2,955,316)                          | (204,401)         | 20,191                               | (3,139,526)                            |
| Total depreciable plant                         | <u>3,129,767</u>                     | <u>(3,399)</u>    | <u>(43)</u>                          | <u>3,126,325</u>                       |
| Total Electric Utility Plant - net              | <u>\$ 3,625,860</u>                  | <u>\$ 332,426</u> | <u>\$ (211,127)</u>                  | <u>\$ 3,747,159</u>                    |



The summarized activity of SMUD's Electric Utility Plant during 2019 is presented below:

|                                                 | Balance<br>January 1,<br>2019 | Additions         | Transfers<br>and<br>Disposals | Balance<br>December 31,<br>2019 |
|-------------------------------------------------|-------------------------------|-------------------|-------------------------------|---------------------------------|
|                                                 | (thousands of dollars)        |                   |                               |                                 |
| <b>Nondepreciable Electric Utility Plant:</b>   |                               |                   |                               |                                 |
| Land and land rights                            | \$ 139,625                    | \$ 3,418          | \$ (752)                      | \$ 142,291                      |
| CWIP                                            | <u>428,249</u>                | <u>342,545</u>    | <u>(416,992)</u>              | <u>353,802</u>                  |
| Total nondepreciable electric utility plant     | <u>567,874</u>                | <u>345,963</u>    | <u>(417,744)</u>              | <u>496,093</u>                  |
| <b>Depreciable Electric Utility Plant:</b>      |                               |                   |                               |                                 |
| Generation                                      | 1,632,081                     | 38,956            | (813)                         | 1,670,224                       |
| Transmission                                    | 336,407                       | 54,637            | (748)                         | 390,296                         |
| Distribution                                    | 2,337,484                     | 96,264            | (6,340)                       | 2,427,408                       |
| Investment in gas properties                    | 206,624                       | 36                | (206,660)                     | -0-                             |
| Investment in JPAs                              | 19,012                        | 3,832             | -0-                           | 22,844                          |
| Intangibles                                     | 426,267                       | 69,836            | (452)                         | 495,651                         |
| General                                         | <u>929,701</u>                | <u>156,812</u>    | <u>(7,853)</u>                | <u>1,078,660</u>                |
|                                                 | 5,887,576                     | 420,373           | (222,866)                     | 6,085,083                       |
| Less: accumulated depreciation<br>and depletion | (2,932,724)                   | (192,524)         | 176,898                       | (2,948,350)                     |
| Less: accumulated amortization<br>on JPAs       | <u>(6,653)</u>                | <u>(313)</u>      | <u>-0-</u>                    | <u>(6,966)</u>                  |
|                                                 | (2,939,377)                   | (192,837)         | 176,898                       | (2,955,316)                     |
| Total depreciable plant                         | <u>2,948,199</u>              | <u>227,536</u>    | <u>(45,968)</u>               | <u>3,129,767</u>                |
| Total Electric Utility Plant - net              | <u>\$ 3,516,073</u>           | <u>\$ 573,499</u> | <u>\$ (463,712)</u>           | <u>\$ 3,625,860</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 \$172.0 million (unaudited) at December 31, 2020, 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 \$17.5 million and \$17.9 million in 2020 and 2019, respectively.

Summary financial information for TANC is presented below:

|                                                              | <u>December 31,</u>    |                    |
|--------------------------------------------------------------|------------------------|--------------------|
|                                                              | 2020                   | 2019               |
|                                                              | <u>(Unaudited)</u>     | <u>(Unaudited)</u> |
|                                                              | (thousands of dollars) |                    |
| Total Assets                                                 | \$ 356,807             | \$ 345,739         |
| Total Deferred Outflows of Resources                         | <u>731</u>             | <u>1,240</u>       |
| Total Assets and Deferred Outflows of Resources              | <u>\$ 357,538</u>      | <u>\$ 346,979</u>  |
| <br>                                                         |                        |                    |
| Total Liabilities                                            | \$ 305,096             | \$ 312,470         |
| Total Net Position                                           | <u>52,442</u>          | <u>34,509</u>      |
| Total Liabilities and Net Position                           | <u>\$ 357,538</u>      | <u>\$ 346,979</u>  |
| <br>                                                         |                        |                    |
| Changes in Net Position for the Six Months Ended December 31 | <u>\$ (564)</u>        | <u>\$ (413)</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](http://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 \$1.7 million in 2020 and \$2.1 million in 2019.

Summary financial information for BANC is presented below:

|                                                        | <u>December 31,</u>    |                  |
|--------------------------------------------------------|------------------------|------------------|
|                                                        | 2020                   | 2019             |
|                                                        | <u>(Audited)</u>       | <u>(Audited)</u> |
|                                                        | (thousands of dollars) |                  |
| Total Assets                                           | <u>\$ 8,125</u>        | <u>\$ 6,184</u>  |
| <br>                                                   |                        |                  |
| Total Liabilities                                      | \$ 8,125               | \$ 6,184         |
| Total Net Position                                     | <u>-0-</u>             | <u>-0-</u>       |
| Total Liabilities and Net Position                     | <u>\$ 8,125</u>        | <u>\$ 6,184</u>  |
| <br>                                                   |                        |                  |
| 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 Cogeneration Project.** CVFA is a JPA formed by SMUD and the Sacramento Regional County Sanitation District. CVFA operates the Carson Project, a 65 MW (net) natural gas-fired cogeneration facility and a 42 MW (net) natural gas-fired simple cycle peaking plant.

**SCA Procter & Gamble Cogeneration Project.** SCA is a JPA formed by SMUD and the SFA. SCA operates the Procter & Gamble Project, a 136 MW (net) natural gas-fired cogeneration facility and a 50 MW (net) natural gas-fired simple cycle peaking plant.

**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.

**SPA Campbell Soup Cogeneration Project.** SPA is a JPA formed by SMUD and the SFA. SPA operates the Campbell Soup Project, a 160 MW (net) natural gas-fired cogeneration facility, and the McClellan Project, a 72 MW (net) natural gas-fired simple cycle peaking plant.

**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 2020 is presented below:

CONDENSED STATEMENTS OF NET POSITION  
December 31, 2020  
(thousands of dollars)

|                                                 | <u>CVFA</u>      | <u>SCA</u>       | <u>SFA</u>        | <u>SPA</u>       | <u>NCGA</u>       | <u>NCEA</u>       |
|-------------------------------------------------|------------------|------------------|-------------------|------------------|-------------------|-------------------|
| <b>Assets</b>                                   |                  |                  |                   |                  |                   |                   |
| Electric Utility Plant - net                    | \$ 31,264        | \$ 48,502        | \$ 207,058        | \$ 48,351        | \$ -0-            | \$ -0-            |
| Restricted Assets                               | -0-              | -0-              | -0-               | -0-              | -0-               | 90                |
| Current Assets                                  | 12,373           | 31,823           | 60,107            | 21,285           | 37,271            | 27,857            |
| Noncurrent Assets                               | <u>2</u>         | <u>1</u>         | <u>892</u>        | <u>1</u>         | <u>160,648</u>    | <u>532,525</u>    |
| Total Assets                                    | 43,639           | 80,326           | 268,057           | 69,637           | 197,919           | 560,472           |
| Deferred Outflows of Resources                  | <u>1,733</u>     | <u>-0-</u>       | <u>1,829</u>      | <u>-0-</u>       | <u>-0-</u>        | <u>-0-</u>        |
| Total Assets and Deferred Outflows of Resources | <u>\$ 45,372</u> | <u>\$ 80,326</u> | <u>\$ 269,886</u> | <u>\$ 69,637</u> | <u>\$ 197,919</u> | <u>\$ 560,472</u> |
| <b>Liabilities</b>                              |                  |                  |                   |                  |                   |                   |
| Long-Term Debt - net                            | \$ -0-           | \$ -0-           | \$ 113,152        | \$ -0-           | \$ 163,485        | \$ 556,794        |
| Current Liabilities                             | 3,441            | 5,515            | 36,819            | 5,190            | 24,288            | 10,876            |
| Noncurrent Liabilities                          | <u>8,633</u>     | <u>-0-</u>       | <u>-0-</u>        | <u>-0-</u>       | <u>-0-</u>        | <u>121</u>        |
| Total Liabilities                               | 12,074           | 5,515            | 149,971           | 5,190            | 187,773           | 567,791           |
| Net Position                                    | <u>33,298</u>    | <u>74,811</u>    | <u>119,915</u>    | <u>64,447</u>    | <u>10,146</u>     | <u>(7,319)</u>    |
| Total Liabilities and Net Position              | <u>\$ 45,372</u> | <u>\$ 80,326</u> | <u>\$ 269,886</u> | <u>\$ 69,637</u> | <u>\$ 197,919</u> | <u>\$ 560,472</u> |

CONDENSED STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION  
December 31, 2020  
(thousands of dollars)

|                                                               | <u>CVFA</u>      | <u>SCA</u>       | <u>SFA</u>        | <u>SPA</u>       | <u>NCGA</u>      | <u>NCEA</u>       |
|---------------------------------------------------------------|------------------|------------------|-------------------|------------------|------------------|-------------------|
| Operating Revenues                                            | \$ 16,599        | \$ 35,932        | \$ 141,874        | \$ 26,818        | \$ 25,935        | \$ 20,053         |
| Operating Expenses                                            | <u>22,073</u>    | <u>39,624</u>    | <u>137,415</u>    | <u>32,545</u>    | <u>17,810</u>    | <u>3,366</u>      |
| Operating Income (Loss)                                       | (5,474)          | (3,692)          | 4,459             | (5,727)          | 8,125            | 16,687            |
| <b>Non-Operating Revenues and Expenses</b>                    |                  |                  |                   |                  |                  |                   |
| Other Revenues                                                | 48               | 205              | 179               | 113              | 533              | -0-               |
| Interest Charges and Other                                    | <u>-0-</u>       | <u>-0-</u>       | <u>(3,670)</u>    | <u>-0-</u>       | <u>(8,205)</u>   | <u>(16,197)</u>   |
| Change in Net Position Before Distributions and Contributions | (5,426)          | (3,487)          | 968               | (5,614)          | 453              | 490               |
| Distribution to Member                                        | -0-              | -0-              | -0-               | -0-              | (507)            | (1,090)           |
| Member Contributions and Adjustments                          | <u>-0-</u>       | <u>-0-</u>       | <u>-0-</u>        | <u>-0-</u>       | <u>86</u>        | <u>127</u>        |
| Change in Net Position                                        | (5,426)          | (3,487)          | 968               | (5,614)          | 32               | (473)             |
| Net Position – Beginning of Year                              | <u>38,724</u>    | <u>78,298</u>    | <u>118,947</u>    | <u>70,061</u>    | <u>10,114</u>    | <u>(6,846)</u>    |
| Net Position – End of Year                                    | <u>\$ 33,298</u> | <u>\$ 74,811</u> | <u>\$ 119,915</u> | <u>\$ 64,447</u> | <u>\$ 10,146</u> | <u>\$ (7,319)</u> |

CONDENSED STATEMENTS OF CASH FLOWS  
December 31, 2020  
(thousands of dollars)

|                                    | <u>CVFA</u>     | <u>SCA</u>       | <u>SFA</u>       | <u>SPA</u>       | <u>NCGA</u>      | <u>NCEA</u>      |
|------------------------------------|-----------------|------------------|------------------|------------------|------------------|------------------|
| Net Cash Provided by               |                 |                  |                  |                  |                  |                  |
| Operating Activities               | \$ 1,232        | \$ 4,462         | \$ 19,673        | \$ 1,929         | \$ 26,597        | \$ 20,053        |
| Net Cash Used in                   |                 |                  |                  |                  |                  |                  |
| Noncapital Financing Activities    | -0-             | -0-              | -0-              | -0-              | (25,550)         | (22,843)         |
| Net Cash Used in Capital Financing |                 |                  |                  |                  |                  |                  |
| Activities                         | (500)           | (54)             | (16,683)         | (748)            | -0-              | -0-              |
| Net Cash Provided by               |                 |                  |                  |                  |                  |                  |
| Investing Activities               | <u>46</u>       | <u>242</u>       | <u>226</u>       | <u>138</u>       | <u>450</u>       | <u>2,714</u>     |
| Net Increase in Cash and Cash      |                 |                  |                  |                  |                  |                  |
| Equivalents                        | 778             | 4,650            | 3,216            | 1,319            | 1,497            | (76)             |
| Cash and Cash Equivalents at the   |                 |                  |                  |                  |                  |                  |
| Beginning of the Year              | <u>4,311</u>    | <u>16,003</u>    | <u>20,650</u>    | <u>9,586</u>     | <u>13,315</u>    | <u>10,953</u>    |
| Cash and Cash Equivalents at the   |                 |                  |                  |                  |                  |                  |
| End of the Year                    | <u>\$ 5,089</u> | <u>\$ 20,653</u> | <u>\$ 23,866</u> | <u>\$ 10,905</u> | <u>\$ 14,812</u> | <u>\$ 10,877</u> |

The summarized activity of SMUD's component units for 2019 is presented below:

CONDENSED STATEMENTS OF NET POSITION  
December 31, 2019  
(thousands of dollars)

|                                       | <u>CVFA</u>      | <u>SCA</u>       | <u>SFA</u>        | <u>SPA</u>       | <u>NCGA</u>       | <u>NCEA</u>       |
|---------------------------------------|------------------|------------------|-------------------|------------------|-------------------|-------------------|
| Assets                                |                  |                  |                   |                  |                   |                   |
| Electric Utility Plant - net          | \$ 37,248        | \$ 56,309        | \$ 220,676        | \$ 55,074        | \$ -0-            | \$ -0-            |
| Restricted Assets                     | -0-              | -0-              | -0-               | -0-              | -0-               | 2,840             |
| Current Assets                        | 11,418           | 26,939           | 54,906            | 20,487           | 33,422            | 27,096            |
| Noncurrent Assets                     | <u>2</u>         | <u>2</u>         | <u>998</u>        | <u>2</u>         | <u>180,564</u>    | <u>535,991</u>    |
| Total Assets                          | 48,668           | 83,250           | 276,580           | 75,563           | 213,986           | 565,927           |
| Deferred Outflows of Resources        | <u>1,955</u>     | <u>-0-</u>       | <u>2,195</u>      | <u>-0-</u>       | <u>-0-</u>        | <u>-0-</u>        |
| Total Assets and Deferred Outflows of |                  |                  |                   |                  |                   |                   |
| Resources                             | <u>\$ 50,623</u> | <u>\$ 83,250</u> | <u>\$ 278,775</u> | <u>\$ 75,563</u> | <u>\$ 213,986</u> | <u>\$ 565,927</u> |
| Liabilities                           |                  |                  |                   |                  |                   |                   |
| Long-Term Debt - net                  | \$ -0-           | \$ -0-           | \$ 126,571        | \$ -0-           | \$ 181,935        | \$ 561,820        |
| Current Liabilities                   | 3,370            | 4,952            | 33,257            | 5,502            | 21,937            | 10,876            |
| Noncurrent Liabilities                | <u>8,529</u>     | <u>-0-</u>       | <u>-0-</u>        | <u>-0-</u>       | <u>-0-</u>        | <u>77</u>         |
| Total Liabilities                     | 11,899           | 4,952            | 159,828           | 5,502            | 203,872           | 572,773           |
| Net Position                          | <u>38,724</u>    | <u>78,298</u>    | <u>118,947</u>    | <u>70,061</u>    | <u>10,114</u>     | <u>(6,846)</u>    |
| Total Liabilities and Net Position    | <u>\$ 50,623</u> | <u>\$ 83,250</u> | <u>\$ 278,775</u> | <u>\$ 75,563</u> | <u>\$ 213,986</u> | <u>\$ 565,927</u> |

CONDENSED STATEMENTS OF REVENUES, EXPENSES AND CHANGES IN NET POSITION  
December 31, 2019  
(thousands of dollars)

|                                                               | <u>CVFA</u>      | <u>SCA</u>       | <u>SFA</u>        | <u>SPA</u>       | <u>NCGA</u>      | <u>NCEA</u>       |
|---------------------------------------------------------------|------------------|------------------|-------------------|------------------|------------------|-------------------|
| Operating Revenues                                            | \$ 23,858        | \$ 36,208        | \$ 157,200        | \$ 27,732        | \$ 33,472        | \$ 16,438         |
| Operating Expenses                                            | <u>26,046</u>    | <u>33,947</u>    | <u>120,562</u>    | <u>31,106</u>    | <u>25,133</u>    | <u>2,682</u>      |
| Operating Income (Loss)                                       | (2,188)          | 2,261            | 36,638            | (3,374)          | 8,339            | 13,756            |
| Non-Operating Revenues and Expenses                           |                  |                  |                   |                  |                  |                   |
| Other Revenues                                                | 114              | 363              | 376               | 142              | 850              | -0-               |
| Interest Charges and Other                                    | <u>(534)</u>     | <u>(1,211)</u>   | <u>(3,962)</u>    | <u>-0-</u>       | <u>(9,280)</u>   | <u>(16,091)</u>   |
| Change in Net Position Before Distributions and Contributions | (2,608)          | 1,413            | 33,052            | (3,232)          | (91)             | (2,335)           |
| Distribution to Member                                        | -0-              | -0-              | -0-               | -0-              | (953)            | -0-               |
| Member Contributions and Adjustments                          | <u>-0-</u>       | <u>7,902</u>     | <u>-0-</u>        | <u>-0-</u>       | <u>80</u>        | <u>88</u>         |
| Change in Net Position                                        | (2,608)          | 9,315            | 33,052            | (3,232)          | (964)            | (2,247)           |
| Net Position – Beginning of Year                              | <u>41,332</u>    | <u>68,983</u>    | <u>85,895</u>     | <u>73,293</u>    | <u>11,078</u>    | <u>(4,599)</u>    |
| Net Position – End of Year                                    | <u>\$ 38,724</u> | <u>\$ 78,298</u> | <u>\$ 118,947</u> | <u>\$ 70,061</u> | <u>\$ 10,114</u> | <u>\$ (6,846)</u> |

CONDENSED STATEMENTS OF CASH FLOWS  
December 31, 2019  
(thousands of dollars)

|                                                                | <u>CVFA</u>     | <u>SCA</u>       | <u>SFA</u>       | <u>SPA</u>      | <u>NCGA</u>      | <u>NCEA</u>      |
|----------------------------------------------------------------|-----------------|------------------|------------------|-----------------|------------------|------------------|
| Net Cash Provided by Operating Activities                      | \$ 6,382        | \$ 10,855        | \$ 42,686        | \$ 3,295        | \$ 35,948        | \$ 13,135        |
| Net Cash Provided by (Used in) Noncapital Financing Activities | -0-             | 7,902            | -0-              | -0-             | (45,135)         | (11,601)         |
| Net Cash Used in Capital Financing Activities                  | (11,345)        | (20,698)         | (46,462)         | (2,774)         | -0-              | -0-              |
| Net Cash Provided by Investing Activities                      | <u>135</u>      | <u>351</u>       | <u>389</u>       | <u>134</u>      | <u>787</u>       | <u>8,656</u>     |
| Net Increase (Decrease) in Cash and Cash Equivalents           | (4,828)         | (1,590)          | (3,387)          | 655             | (8,400)          | 10,190           |
| Cash and Cash Equivalents at the Beginning of the Year         | <u>9,139</u>    | <u>17,593</u>    | <u>24,037</u>    | <u>8,931</u>    | <u>21,715</u>    | <u>763</u>       |
| Cash and Cash Equivalents at the End of the Year               | <u>\$ 4,311</u> | <u>\$ 16,003</u> | <u>\$ 20,650</u> | <u>\$ 9,586</u> | <u>\$ 13,315</u> | <u>\$ 10,953</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 CVFA's, SCA's, SFA's, SPA'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](http://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 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, 2020 and 2019, \$12.2 million and \$5.5 million in deposits were uninsured, respectively. The bank balance is also, per a depository pledge agreement between SMUD and SMUD’s bank, collateralized at 134 percent and 131 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, 2020 and 2019, respectively. SMUD had money market funds of \$128.4 million and \$103.4 million which were uninsured at December 31, 2020 and 2019, 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 and federal agency securities.

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

| Investment Type:                                  | December 31, |      |
|---------------------------------------------------|--------------|------|
|                                                   | 2020         | 2019 |
| Federal Home Loan Banks                           | 17%          | 27%  |
| Freddie Mac                                       | 7%           | 12%  |
| Commercial Paper – Toyota Motor Credit Corp       | N/A          | 10%  |
| Municipal Bond – CA Department of Water Resources | 10%          | 6%   |
| Municipal Bond – State of Florida                 | 9%           | N/A  |
| Municipal Bond – State of California              | 4%           | 6%   |
| Corporate Note – Tennessee Valley Authority       | 7%           | 5%   |
| Corporate Note – Wells Fargo Bank                 | 7%           | 5%   |
| Corporate Note – Microsoft Corporation            | 9%           | 3%   |
| Corporate Note – Apple Inc                        | 11%          | 9%   |

**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, 2020 and 2019. 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, 2020, SMUD's cash, cash equivalents, and investments consist of the following:

| <u>Description</u>                            | <u>Credit Rating</u> | <u>Remaining Maturities (in years)</u> |                  |                    | <u>Total Fair Value</u> |
|-----------------------------------------------|----------------------|----------------------------------------|------------------|--------------------|-------------------------|
|                                               |                      | <u>Less Than 1</u>                     | <u>1-5</u>       | <u>More Than 5</u> |                         |
| (thousands of dollars)                        |                      |                                        |                  |                    |                         |
| <b>Cash and Cash Equivalents:</b>             |                      |                                        |                  |                    |                         |
| Cash                                          | N/A                  | \$ 8,607                               | \$ -0-           | \$ -0-             | \$ 8,607                |
| LAIF                                          | Not Rated            | 512,682                                | -0-              | -0-                | 512,682                 |
| Money Market Funds                            | AAAm                 | 128,406                                | -0-              | -0-                | 128,406                 |
| Deposit at Notice                             | N/A                  | 80,062                                 | -0-              | -0-                | 80,062                  |
| Commercial Paper                              | A-1+/A-1             | <u>8,854</u>                           | <u>-0-</u>       | <u>-0-</u>         | <u>8,854</u>            |
| Total cash and cash equivalents               |                      | 738,611                                | -0-              | -0-                | 738,611                 |
| <b>Investments:</b>                           |                      |                                        |                  |                    |                         |
| Federal Farm Credit Bank                      | AA+                  | 15,188                                 | -0-              | -0-                | 15,188                  |
| Federal Home Loan Bank                        | AA+                  | 49,986                                 | -0-              | -0-                | 49,986                  |
| Freddie Mac                                   | AA+                  | -0-                                    | 20,462           | -0-                | 20,462                  |
| U.S. Treasury Obligations                     | AAA                  | 20,248                                 | -0-              | -0-                | 20,248                  |
| Corporate Notes                               | AAA/AA+/A+/A-/A      | 113,980                                | 4,035            | -0-                | 118,015                 |
| Municipal Bonds                               | AAA/AA+/AA-          | -0-                                    | 63,647           | -0-                | 63,647                  |
| Guaranteed Investment Contracts               | BBB+                 | <u>10,859</u>                          | <u>90</u>        | <u>-0-</u>         | <u>10,949</u>           |
| Total investments                             |                      | <u>210,261</u>                         | <u>88,234</u>    | <u>-0-</u>         | <u>298,495</u>          |
| Total cash, cash equivalents, and investments |                      | <u>\$ 948,872</u>                      | <u>\$ 88,234</u> | <u>\$ -0-</u>      | <u>\$ 1,037,106</u>     |



At December 31, 2019, 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              | \$ 1,093                        | \$ -0-            | \$ -0-        | \$ 1,093          |
| LAIF                                          | Not Rated        | 104,742                         | -0-               | -0-           | 104,742           |
| Money Market Funds                            | AAAm             | 103,367                         | -0-               | -0-           | 103,367           |
| Deposit at Notice                             | N/A              | 51,432                          | -0-               | -0-           | 51,432            |
| Commercial Paper                              | A-1+/A-1         | <u>47,474</u>                   | <u>-0-</u>        | <u>-0-</u>    | <u>47,474</u>     |
| Total cash and cash equivalents               |                  | 308,108                         | -0-               | -0-           | 308,108           |
| Investments:                                  |                  |                                 |                   |               |                   |
| Fannie Mae                                    | AA+              | 3,030                           | -0-               | -0-           | 3,030             |
| Federal Farm Credit Bank                      | AA+              | -0-                             | 15,001            | -0-           | 15,001            |
| Federal Home Loan Bank                        | AA+              | 111,844                         | -0-               | -0-           | 111,844           |
| Freddie Mac                                   | AA+              | 27,984                          | 20,308            | -0-           | 48,292            |
| U.S. Treasury Obligations                     | AAA              | 105,116                         | 20,167            | -0-           | 125,283           |
| Corporate Notes                               | AAA/AA+/AA-/A+/A | 6,302                           | 114,897           | -0-           | 121,199           |
| Municipal Bonds                               | AA/AA-           | 15,063                          | 33,013            | -0-           | 48,076            |
| Guaranteed Investment Contracts               | BBB+             | <u>10,249</u>                   | <u>2,840</u>      | <u>-0-</u>    | <u>13,089</u>     |
| Total investments                             |                  | <u>279,588</u>                  | <u>206,226</u>    | <u>-0-</u>    | <u>485,814</u>    |
| Total cash, cash equivalents, and investments |                  | <u>\$ 587,696</u>               | <u>\$ 206,226</u> | <u>\$ -0-</u> | <u>\$ 793,922</u> |

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

|                                                    | December 31,        |                   |
|----------------------------------------------------|---------------------|-------------------|
|                                                    | 2020                | 2019              |
| (thousands of dollars)                             |                     |                   |
| Cash, Cash Equivalents, and Investments:           |                     |                   |
| Revenue bond reserve and debt service funds:       |                     |                   |
| Revenue bond reserve fund                          | \$ 3,813            | \$ 4,748          |
| Debt service fund                                  | 80,022              | 73,250            |
| Component unit bond reserve and debt service funds | <u>38,010</u>       | <u>38,529</u>     |
| Total revenue bond reserve and debt service funds  | 121,845             | 116,527           |
| Nuclear decommissioning trust fund                 | 8,873               | 8,798             |
| Rate stabilization fund                            | 168,726             | 143,669           |
| Component unit other restricted funds              | 7,413               | 8,707             |
| Escrow fund                                        | 15,179              | 20,592            |
| Other restricted funds                             | 654                 | 654               |
| Unrestricted funds                                 | <u>714,416</u>      | <u>494,975</u>    |
| Total cash, cash equivalents, and investments      | <u>\$ 1,037,106</u> | <u>\$ 793,922</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 2020 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 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 liability. The regulatory asset will be amortized over a period of 25 years starting in 2020. SMUD’s total regulatory costs for future recovery are presented below:

|                                                        | <u>December 31,</u>    |                   |
|--------------------------------------------------------|------------------------|-------------------|
|                                                        | <u>2020</u>            | <u>2019</u>       |
|                                                        | (thousands of dollars) |                   |
| Regulatory Costs:                                      |                        |                   |
| Decommissioning                                        | \$ 88,652              | \$ 81,076         |
| Derivative financial instruments                       | 9,270                  | 10,517            |
| Debt issuance costs                                    | 1,673                  | 1,882             |
| Pension                                                | 374,599                | 391,626           |
| OPEB                                                   | <u>306,556</u>         | <u>319,329</u>    |
| Total regulatory costs                                 | 780,750                | 804,430           |
| Less: regulatory costs to be recovered within one year | <u>(38,162)</u>        | <u>(37,622)</u>   |
| Total regulatory costs for future recovery - net       | <u>\$ 742,588</u>      | <u>\$ 766,808</u> |

**Regulatory Credits**

**CIAC.** In 2020 and 2019, SMUD added CIAC totaling \$25.1 million and \$18.8 million, respectively, to Regulatory Credits in the Statements of Net Position and recorded \$13.3 million and \$12.8 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 transferred into this fund

(which reduces revenues), or amounts are transferred out of this fund (which increases revenues). The Board authorizes Rate Stabilization Fund (RSF) transfers on an event driven basis.

In 2020 and 2019, \$1.6 million and \$10.7 million, respectively, was transferred from revenue to the RSF as a result of higher 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 2020, the Board authorized transferring the difference out of the RSF and \$4.1 million was transferred from the RSF to revenue. In 2019, the Board authorized transferring the difference into the RSF and \$15.6 million was transferred 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 2020 and 2019, the Board authorized transferring the difference into the RSF and \$0.3 million and \$2.3 million, respectively, was transferred from revenue to the RSF.

In 2020, the Board authorized SMUD to transfer \$35.0 million from revenue to the RSF to offset future one-time specific expenses which may have a significant financial impact on SMUD. This will provide reserves to cover large contingencies while limiting or leveling out the impact of cost increases to ratepayers.

**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 2020, \$7.7 million was transferred from the HRSF to revenue as a result of low precipitation. In 2019, \$18.4 million was transferred from revenue to the HRSF as a result of high precipitation.

**Energy Assistance Program Rate (EAPR).** In 2016, the Board authorized SMUD to transfer \$10.0 million of revenue to a regulatory credit related to EAPR. This regulatory credit is intended to offset future expenditures for energy efficiency programs for EAPR customers from the period 2018-2020. In 2020 and 2019, \$3.5 million and \$3.0 million was spent on energy efficiency programs for EAPR customers, respectively.

**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 2020 and 2019, \$2.3 million and \$2.8 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,           |                   |
|--------------------------|------------------------|-------------------|
|                          | 2020                   | 2019              |
|                          | (thousands of dollars) |                   |
| Regulatory Credits:      |                        |                   |
| CIAC                     | \$278,791              | \$ 267,041        |
| Rate stabilization       | 94,006                 | 61,231            |
| Hydro rate stabilization | 74,720                 | 82,438            |
| EAPR                     | -0-                    | 3,501             |
| Senate Bill 1            | 4,254                  | 6,529             |
| Grant revenues           | 36,068                 | 39,888            |
| TANC operations costs    | <u>28,370</u>          | <u>28,858</u>     |
| Total regulatory credits | <u>\$ 516,209</u>      | <u>\$ 489,486</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).

During 2020 and 2019, 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.

For electricity and gas derivative instruments, fair values are estimated by comparing contract prices to forward market prices quoted by an independent external pricing service. When external quoted market prices are not available for derivative instrument contracts, SMUD uses an internally developed valuation model utilizing short term observable inputs. For interest rate derivative instruments, SMUD calculates the fair value by discounting the expected cash flows at their corresponding zero coupon rate.

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, 2020 (amounts in thousands; gains shown as positive amounts, losses as negative):

|                                                     | 2020 Changes in<br>Fair Value |                      | Fair Value at<br>December 31, 2020 |                      | Notional   |
|-----------------------------------------------------|-------------------------------|----------------------|------------------------------------|----------------------|------------|
|                                                     | Current<br>Amount             | Noncurrent<br>Amount | Current<br>Amount                  | Noncurrent<br>Amount |            |
| <u>Cash Flow Hedges:</u>                            |                               |                      |                                    |                      |            |
| (thousands of dollars)                              |                               |                      |                                    |                      |            |
| (thousands of Dekatherms (Dth))                     |                               |                      |                                    |                      |            |
| <u>Asset: Investment Derivative Instruments</u>     |                               |                      |                                    |                      |            |
| Gas – Commodity                                     | \$ (69)                       | \$ 33                | \$ -0-                             | \$ 33                | 305 Dth    |
| Gas – Storage                                       | (141)                         | -0-                  | -0-                                | -0-                  |            |
| Gas – Transportation                                | (278)                         | -0-                  | -0-                                | -0-                  |            |
| Total Investment                                    |                               |                      |                                    |                      |            |
| Derivative Instruments                              | \$ (488)                      | \$ 33                | \$ -0-                             | \$ 33                |            |
| <u>Asset: Hedging Derivative Instruments</u>        |                               |                      |                                    |                      |            |
| Gas – Commodity                                     | \$ (189)                      | \$ 2,311             | \$ 1,329                           | \$ 2,325             | 39,730 Dth |
| Gas – Storage                                       | (90)                          | -0-                  | 301                                | -0-                  | 900 Dth    |
| Gas – Transportation                                | (3,836)                       | -0-                  | 1,490                              | -0-                  | 11,958 Dth |
| Interest Rate                                       | 295                           | (1,692)              | 1,793                              | 6,281                | \$280,320  |
| Total Hedging                                       |                               |                      |                                    |                      |            |
| Derivative Instruments                              | \$ (3,820)                    | \$ 619               | \$ 4,913                           | \$ 8,606             |            |
| <u>Liability: Investment Derivative Instruments</u> |                               |                      |                                    |                      |            |
| Gas – Commodity                                     | \$ 1,164                      | \$ 1,402             | \$ 9                               | \$ 263               | 1,675 Dth  |
| Gas – Storage                                       | 191                           | -0-                  | -0-                                | -0-                  |            |
| Gas – Transportation                                | 93                            | -0-                  | -0-                                | -0-                  |            |
| Interest Rate                                       | (614)                         | (536)                | 1,392                              | 7,640                | \$80,100   |
| Total Investment                                    |                               |                      |                                    |                      |            |
| Derivative Instruments                              | \$ 834                        | \$ 866               | \$ 1,401                           | \$ 7,903             |            |
| <u>Liability: Hedging Derivative Instruments</u>    |                               |                      |                                    |                      |            |
| Gas – Commodity                                     | \$ 20,193                     | \$ 23,002            | \$ 20,666                          | \$ 18,698            | 47,778 Dth |
| Gas – Storage                                       | (583)                         | -0-                  | 1,097                              | -0-                  | 1,210 Dth  |
| Gas – Transportation                                | -0-                           | -0-                  | -0-                                | -0-                  |            |
| Interest Rate                                       | (521)                         | (8,478)              | 521                                | 10,598               | \$284,815  |
| Total Hedging                                       |                               |                      |                                    |                      |            |
| Derivative Instruments                              | \$ 19,089                     | \$ 14,524            | \$ 22,284                          | \$ 29,296            |            |

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, 2019 (amounts in thousands; gains shown as positive amounts, losses as negative):

|                                                     | 2019 Changes in<br>Fair Value |                      | Fair Value at<br>December 31, 2019 |                      | Notional   |
|-----------------------------------------------------|-------------------------------|----------------------|------------------------------------|----------------------|------------|
|                                                     | Current<br>Amount             | Noncurrent<br>Amount | Current<br>Amount                  | Noncurrent<br>Amount |            |
| <u>Cash Flow Hedges:</u>                            |                               |                      |                                    |                      |            |
| (thousands of dollars)                              |                               |                      |                                    |                      |            |
| (thousands of Dekatherms (Dth))                     |                               |                      |                                    |                      |            |
| <u>Asset: Investment Derivative Instruments</u>     |                               |                      |                                    |                      |            |
| Gas – Commodity                                     | \$ 49                         | \$ -0-               | \$ 69                              | \$ -0-               | 150 Dth    |
| Gas – Storage                                       | 141                           | -0-                  | 141                                | -0-                  | 295 Dth    |
| Gas – Transportation                                | 278                           | -0-                  | 278                                | -0-                  | 310 Dth    |
| Total Investment                                    |                               |                      |                                    |                      |            |
| Derivative Instruments                              | \$ 468                        | \$ -0-               | \$ 488                             | \$ -0-               |            |
| <u>Asset: Hedging Derivative Instruments</u>        |                               |                      |                                    |                      |            |
| Gas – Commodity                                     | \$ 1,055                      | \$ 13                | \$ 1,517                           | \$ 13                | 2,835 Dth  |
| Gas – Storage                                       | 154                           | -0-                  | 391                                | -0-                  | 687 Dth    |
| Gas – Transportation                                | 2,729                         | -0-                  | 5,326                              | -0-                  | 14,320 Dth |
| Interest Rate                                       | 270                           | (2,507)              | 1,498                              | 7,973                | \$215,500  |
| Total Hedging                                       |                               |                      |                                    |                      |            |
| Derivative Instruments                              | \$ 4,208                      | \$ (2,494)           | \$ 8,732                           | \$ 7,986             |            |
| <u>Liability: Investment Derivative Instruments</u> |                               |                      |                                    |                      |            |
| Gas – Commodity                                     | \$ 195                        | \$ 6,938             | \$ 1,173                           | \$ 1,665             | 2,433 Dth  |
| Gas – Storage                                       | (191)                         | -0-                  | 191                                | -0-                  | 295 Dth    |
| Gas – Transportation                                | (93)                          | -0-                  | 93                                 | -0-                  | 310 Dth    |
| Interest Rate                                       | (403)                         | (379)                | 778                                | 7,104                | \$85,625   |
| Total Investment                                    |                               |                      |                                    |                      |            |
| Derivative Instruments                              | \$ (492)                      | \$ 6,559             | \$ 2,235                           | \$ 8,769             |            |
| <u>Liability: Hedging Derivative Instruments</u>    |                               |                      |                                    |                      |            |
| Gas – Basis                                         | \$ 3,651                      | \$ -0-               | \$ -0-                             | \$ -0-               |            |
| Gas – Commodity                                     | (15,857)                      | 14,984               | 40,859                             | 41,700               | 61,957 Dth |
| Gas – Storage                                       | (124)                         | -0-                  | 515                                | -0-                  | 688 Dth    |
| Gas – Transportation                                | 41                            | -0-                  | -0-                                | -0-                  |            |
| Interest Rate                                       | -0-                           | (2,120)              | -0-                                | 2,120                | \$157,785  |
| Total Hedging                                       |                               |                      |                                    |                      |            |
| Derivative Instruments                              | \$ (12,289)                   | \$ 12,864            | \$ 41,374                          | \$ 43,820            |            |

**Objectives and Terms of Hedging Derivative Instruments.** The objectives and terms of SMUD’s hedging derivative instruments that were outstanding at December 31, 2020 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.

|                      | <u>Notional<br/>Amount Dth</u> | <u>Beginning<br/>Date</u> | <u>Ending<br/>Date</u> | <u>Minimum<br/>Price/Dth</u> | <u>Maximum<br/>Price/Dth</u> |
|----------------------|--------------------------------|---------------------------|------------------------|------------------------------|------------------------------|
| Gas – Commodity      | 89,565                         | 01/01/08                  | 12/31/24               | \$ .89                       | \$ 7.17                      |
| Gas – Storage        | 2,110                          | 01/01/21                  | 03/31/21               | .26                          | 3.13                         |
| Gas – Transportation | 11,958                         | 01/01/21                  | 12/31/21               | (0.82)                       | .43                          |

The objectives and terms of SMUD’s hedging derivative instruments that were outstanding at December 31, 2019 are summarized in the table below. The table is aggregated by the trading strategy.

|                      | <u>Notional<br/>Amount Dth</u> | <u>Beginning<br/>Date</u> | <u>Ending<br/>Date</u> | <u>Minimum<br/>Price/Dth</u> | <u>Maximum<br/>Price/Dth</u> |
|----------------------|--------------------------------|---------------------------|------------------------|------------------------------|------------------------------|
| Gas – Commodity      | 67,375                         | 01/01/08                  | 12/31/22               | \$ .43                       | \$ 7.17                      |
| Gas – Storage        | 1,965                          | 01/01/20                  | 10/31/20               | .24                          | 3.02                         |
| Gas – Transportation | 14,940                         | 01/01/20                  | 12/31/20               | (1.51)                       | .69                          |

SMUD hedges its interest rate exposure with swaps. One swap is used to convert some of the interest expense associated with fixed rate bonds to a variable rate interest expense. SMUD has four 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 2011 Series X, 2012 Series Y, 2013 Series A and 2013 Series B bonds in 2021, 2022 and 2023, respectively (see Note 10). SMUD also has a swap that is designed to fix the interest expense associated with commercial paper (see Note 11).

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, 2020.

**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, 2020 and 2019 are shown in the table below. The credit ratings listed are from S&P or Moody's.

|                                               | <u>December 31,</u> |             |
|-----------------------------------------------|---------------------|-------------|
|                                               | <u>2020</u>         | <u>2019</u> |
| <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                  | A3          |
| Mitsui Bussan                                 | A                   | N/A         |
| Morgan Stanley Capital Group, Inc.            | A+                  | BBB+        |
| Nextera                                       | A-                  | N/A         |
| Royal Bank of Canada                          | AA-                 | N/A         |
| 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:

|                                                                              | <u>December 31,</u>    |                     |
|------------------------------------------------------------------------------|------------------------|---------------------|
|                                                                              | <u>2020</u>            | <u>2019</u>         |
|                                                                              | (thousands of dollars) |                     |
| Electric revenue bonds, 2.0%-6.32%, 2021-2050                                | \$ 2,085,120           | \$ 1,778,040        |
| Subordinated electric revenue bonds, 5.0%, 2021-2049                         | <u>200,000</u>         | <u>200,000</u>      |
| Total electric revenue bonds                                                 | 2,285,120              | 1,978,040           |
| Component unit project revenue bonds, 5.0%, 2021-2030                        | 112,085                | 120,795             |
| Gas and Commodity supply revenue bonds, index rates and 4.0%-5.0%, 2021-2049 | <u>721,550</u>         | <u>738,225</u>      |
| Total long-term debt outstanding                                             | 3,118,755              | 2,837,060           |
| Bond premiums - net                                                          | <u>267,947</u>         | <u>225,040</u>      |
| Total long-term debt                                                         | 3,386,702              | 3,062,100           |
| Less: amounts due within one year                                            | <u>(127,390)</u>       | <u>(118,305)</u>    |
| Total long-term debt - net                                                   | <u>\$ 3,259,312</u>    | <u>\$ 2,943,795</u> |

The summarized activity of SMUD's long-term debt during 2020 is presented below:

|                                        | January 1,<br><u>2020</u> | <u>Additions</u>  | Defeasance<br>Payments or<br><u>Amortization</u> | December 31,<br><u>2020</u> | Amounts<br>Due Within<br><u>One Year</u> |
|----------------------------------------|---------------------------|-------------------|--------------------------------------------------|-----------------------------|------------------------------------------|
| (thousands of dollars)                 |                           |                   |                                                  |                             |                                          |
| Electric revenue bonds                 | \$ 1,778,040              | \$ 400,000        | \$ (92,920)                                      | \$ 2,085,120                | \$ 98,040                                |
| Subordinate electric revenue bonds     | 200,000                   | -0-               | -0-                                              | 200,000                     | -0-                                      |
| Component unit project revenue bonds   | 120,795                   | -0-               | (8,710)                                          | 112,085                     | 10,900                                   |
| Gas and Commodity supply revenue bonds | <u>738,225</u>            | <u>-0-</u>        | <u>(16,675)</u>                                  | <u>721,550</u>              | <u>18,450</u>                            |
| Total                                  | 2,837,060                 | 400,000           | (118,305)                                        | 3,118,755                   | <u>\$ 127,390</u>                        |
| Unamortized premiums - net             | <u>225,040</u>            | <u>83,457</u>     | <u>(40,550)</u>                                  | <u>267,947</u>              |                                          |
| Total long-term debt                   | <u>\$ 3,062,100</u>       | <u>\$ 483,457</u> | <u>\$ (158,855)</u>                              | <u>\$ 3,386,702</u>         |                                          |

The summarized activity of SMUD's long-term debt during 2019 is presented below:

|                                        | January 1,<br><u>2019</u> | <u>Additions</u>  | Defeasance<br>Payments or<br><u>Amortization</u> | December 31,<br><u>2019</u> | Amounts<br>Due Within<br><u>One Year</u> |
|----------------------------------------|---------------------------|-------------------|--------------------------------------------------|-----------------------------|------------------------------------------|
| (thousands of dollars)                 |                           |                   |                                                  |                             |                                          |
| Electric revenue bonds                 | \$ 1,673,590              | \$ 191,875        | \$ (87,425)                                      | \$ 1,778,040                | \$ 92,920                                |
| Subordinate electric revenue bonds     | -0-                       | 200,000           | -0-                                              | 200,000                     | -0-                                      |
| Component unit project revenue bonds   | 162,055                   | -0-               | (41,260)                                         | 120,795                     | 8,710                                    |
| Gas and Commodity supply revenue bonds | <u>772,785</u>            | <u>-0-</u>        | <u>(34,560)</u>                                  | <u>738,225</u>              | <u>16,675</u>                            |
| Total                                  | 2,608,430                 | 391,875           | (163,245)                                        | 2,837,060                   | <u>\$ 118,305</u>                        |
| Unamortized premiums - net             | <u>175,187</u>            | <u>83,748</u>     | <u>(33,895)</u>                                  | <u>225,040</u>              |                                          |
| Total long-term debt                   | <u>\$ 2,783,617</u>       | <u>\$ 475,623</u> | <u>\$ (197,140)</u>                              | <u>\$ 3,062,100</u>         |                                          |

At December 31, 2020 scheduled annual principal maturities and interest are as follows:

|                        | <u>Principal</u>    | <u>Interest</u>     | <u>Total</u>        |
|------------------------|---------------------|---------------------|---------------------|
| (thousands of dollars) |                     |                     |                     |
| 2021                   | \$ 127,390          | \$ 152,881          | \$ 280,271          |
| 2022                   | 135,115             | 146,723             | 281,838             |
| 2023                   | 143,515             | 140,929             | 284,444             |
| 2024                   | 143,310             | 130,519             | 273,829             |
| 2025                   | 155,900             | 124,813             | 280,713             |
| 2026 – 2030 (combined) | 677,550             | 498,136             | 1,175,686           |
| 2031 – 2035 (combined) | 559,375             | 342,033             | 901,408             |
| 2036 – 2040 (combined) | 466,645             | 198,044             | 664,689             |
| 2041 – 2045 (combined) | 379,530             | 107,541             | 487,071             |
| 2046 – 2050 (combined) | <u>330,425</u>      | <u>36,830</u>       | <u>367,255</u>      |
| Total requirements     | <u>\$ 3,118,755</u> | <u>\$ 1,878,449</u> | <u>\$ 4,997,204</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, 2020 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, 2020:

| <u>Date</u>                                       | <u>Issue</u>        | <u>Final<br/>Maturity</u> | <u>Interest<br/>Rate</u> | <u>Original<br/>Amount</u> | <u>Outstanding<br/>Amount</u> |
|---------------------------------------------------|---------------------|---------------------------|--------------------------|----------------------------|-------------------------------|
| (thousands of dollars)                            |                     |                           |                          |                            |                               |
| <b><u>Electric Revenue Bonds</u></b>              |                     |                           |                          |                            |                               |
| 06/15/1997                                        | 1997 Series K Bonds | 07/01/2024                | 5.25% - 5.9%             | \$ 131,030                 | \$ 72,620                     |
| 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                       |
| 10/04/2011                                        | 2011 Series X Bonds | 08/15/2028                | 1.5% - 5.0%              | 325,550                    | 156,770                       |
| 05/31/2012                                        | 2012 Series Y Bonds | 08/15/2033                | 3.0% - 5.0%              | 196,945                    | 169,530                       |
| 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                    | 84,905                        |
| 07/14/2016                                        | 2016 Series D Bonds | 08/15/2028                | 2.0% - 5.0%              | 149,890                    | 133,360                       |
| 12/14/2017                                        | 2017 Series E Bonds | 08/15/2028                | 5.0%                     | 202,500                    | 152,560                       |
| 07/12/2018                                        | 2018 Series F Bonds | 08/15/2028                | 5.0%                     | 165,515                    | 141,480                       |
| 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                       |
| <b><u>Subordinated Electric Revenue Bonds</u></b> |                     |                           |                          |                            |                               |
| 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                       |
| <b><u>JPA Revenue Bonds</u></b>                   |                     |                           |                          |                            |                               |
| 06/03/2015                                        | 2015 SFA Bonds      | 07/01/2030                | 2.0% - 5.0%              | 193,335                    | 112,085                       |
| 05/31/2007                                        | 2007B NCGA#1 Bonds  | 07/01/2027                | Index Rate               | 668,470                    | 181,935                       |
| 12/19/2018                                        | 2018 NCEA Bonds     | 07/01/2049                | 4.0% - 5.0%              | 539,615                    | 539,615                       |

**2020 Bond Issuances.** In May 2020, SMUD issued \$400.0 million of 2020 Series H Revenue Bonds. The 2020 Series H Bonds have a fixed coupon rate of 4.0 percent to 5.0 percent and amortize from 2029 to 2050. Proceeds from the 2020 Series H Bonds were used to refund all outstanding commercial paper and reimburse SMUD for capital projects in 2018, 2019 and through February 2020.

**2019 Bond Issuances.** In July 2019, SMUD issued \$191.9 million of 2019 Series G Revenue Bonds, \$100.0 million of 2019 Series A Subordinated Revenue Bonds, and \$100.0 million of 2019 Series B Subordinated Revenue Bonds. The 2019 Series G Bonds have a fixed coupon rate of 2.375 percent to 5.0 percent and amortize from 2029 to 2041. The 2019 Series A Bonds have a fixed interest coupon rate of 5.0 percent, amortized from 2041 to 2049, with a mandatory remarketing purchase in April 2023. The 2019 Series B Bonds have a fixed coupon interest rate of 5.0 percent, amortized from 2041 to 2049, with a mandatory remarketing purchase in April 2025. Proceeds from 2019 Series G Bonds, the 2019 Series A Bonds and the 2019 Series B Bonds were used to refund outstanding commercial paper.

**Component Unit Bond Defeasances.** In September 2019, CVFA defeased \$5.4 million of 2009 Series Bonds maturing on July 2020, along with the accrued interest using CVFA's available funds. The corresponding amount was placed in an irrevocable trust which had a balance of \$5.6 million at December 31, 2019. In addition, 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 has a remaining balance of \$6.9 million and \$13.7 million as of December 31, 2020 and 2019, respectively. The defeasances resulted in an accounting loss of \$0.8 million which is included in Interest on Debt in the Statements of Revenues, Expenses and Changes in Net Position.

**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 six interest rate swap agreements as of December 31, 2020 are as follows. The credit ratings listed are from S&P.

| Notional<br>Amount<br>(thousands) | SMUD<br>Pays | Fixed<br>Rate | Floating<br>Rate | Termination<br>Date | Counterparty<br>Credit<br>Rating |
|-----------------------------------|--------------|---------------|------------------|---------------------|----------------------------------|
| \$ 72,620                         | Variable     | 5.166%        | SIFMA            | 07/01/24            | BBB+                             |
| 80,100                            | Fixed        | 2.894%        | 63% of 1 M LIBOR | 08/15/28            | A+                               |
| 127,030                           | Fixed        | 1.099%        | 67% of 1M LIBOR  | 08/15/28            | BBB+                             |
| 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                                |

A summary of SMUD’s four interest rate swap agreements as of December 31, 2019 are as follows:

| Notional<br>Amount<br>(thousands) | SMUD<br>Pays | Fixed<br>Rate | Floating<br>Rate | Termination<br>Date | Counterparty<br>Credit<br>Rating |
|-----------------------------------|--------------|---------------|------------------|---------------------|----------------------------------|
| \$ 88,470                         | Variable     | 5.166%        | SIFMA            | 07/01/24            | BBB+                             |
| 85,625                            | Fixed        | 2.894%        | 63% of 1M LIBOR  | 08/15/28            | A+                               |
| 127,030                           | Fixed        | 1.099%        | 67% of 1M LIBOR  | 08/15/28            | BBB+                             |
| 157,785                           | Fixed        | 1.607%        | SIFMA            | 08/15/33            | A+                               |

At December 31, 2020 and 2019, SMUD had a fixed-to-variable interest rate swap agreement with a notional amount of \$72.6 million and \$88.5 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 (.09 percent and 1.61 percent at December 31, 2020 and 2019, respectively) and receives fixed rate payments of 5.166 percent as of December 31, 2020 and 2019. In connection with the swap agreement, SMUD has a put option agreement, also with a notional amount of \$72.6 million and \$88.5 million as of December 31, 2020 and 2019, 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 and 0.162 percent as of December 31, 2020 and 2019, respectively, 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, 2020 and 2019, SMUD had one variable-to-fixed interest rate swap agreement with a notional amount of \$80.1 million and \$85.6 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 becomes effective in July 2021. 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 becomes effective in July 2022. 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. Additionally, on August 15, 2026 and for the remaining life of the Morgan Stanley Capital Services swap associated with 2012 Series Y Bonds, the swap can be terminated at no cost to SMUD. 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.

**Component Unit Interest Rate Swap Agreements.** NCGA had one interest rate swap agreement as of December 31, 2020, which is summarized as follows. The credit ratings listed are from S&P.

| Notional<br>Amount<br>(thousands) | NCGA<br>Pays | Fixed<br>Rate | Floating<br>Rate    | Termination<br>Date | Credit Support<br>Provider<br>Credit<br>Rating |
|-----------------------------------|--------------|---------------|---------------------|---------------------|------------------------------------------------|
| \$ 181,935                        | Fixed        | 4.304%        | 67% of LIBOR + .72% | 07/01/27            | A+                                             |

NCGA had one interest rate swap agreement as of December 31, 2019, which are summarized as follows:

| Notional<br>Amount<br>(thousands) | NCGA<br>Pays | Fixed<br>Rate | Floating<br>Rate    | Termination<br>Date | Credit Support<br>Provider<br>Credit<br>Rating |
|-----------------------------------|--------------|---------------|---------------------|---------------------|------------------------------------------------|
| \$ 198,610                        | Fixed        | 4.304%        | 67% of LIBOR + .72% | 07/01/27            | A+                                             |

At December 31, 2020 and 2019, 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 (0.23 percent and 1.91 percent at December 31, 2020 and 2019, respectively) plus an interest rate spread, as specified in the swap agreement. The total notional amount of the swap at December 31, 2020 and 2019 was \$181.9 million and \$198.6 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, all of which are fixed rate Build America Bonds debt. SMUD also has \$492.5 million of bonds that become callable from 2021 through 2026, 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 2020. 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, 2020.

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,           |              |
|-------------------------------------------------------------------------------------------|------------------------|--------------|
|                                                                                           | 2020                   | 2019         |
|                                                                                           | (thousands of dollars) |              |
| Pledged future revenues                                                                   | \$ 3,118,755           | \$ 2,837,060 |
| Principal and interest payments for the year ended                                        | \$ 262,291             | \$ 265,930   |
| Total net revenues for the year ended                                                     | \$ 632,572             | \$ 586,514   |
| Total remaining principal and interest to be paid                                         | \$ 4,997,204           | \$ 4,469,891 |
| Annual principal and interest payments as a percent of net revenues<br>for the year ended | 41%                    | 45%          |

#### **NOTE 11. COMMERCIAL PAPER NOTES**

SMUD issues Commercial Paper Notes (Notes) to finance or reimburse capital expenditures. In February 2019, SMUD expanded its commercial paper program from \$288.8 million to \$400.0 million. At December 31, 2020, there were no Notes outstanding. At December 31, 2019, Notes outstanding totaled \$50.0 million. The average interest rate for the Notes outstanding at December 31, 2019 was 1.02 percent and the average term was 90 days. SMUD’s commercial paper program is backed by \$409.9 million in letter of credit agreements (LOCs) 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. The LOCs contain a provision that in an event of default, the outstanding amounts may become immediately due.

The summarized activity of SMUD’s Notes during 2020 and 2019 is presented below:

|                   | Balance at<br>Beginning of<br>Year |    | Additions              |    | Reductions |    | Balance at<br>End of<br>Year |
|-------------------|------------------------------------|----|------------------------|----|------------|----|------------------------------|
|                   |                                    |    | (thousands of dollars) |    |            |    |                              |
| December 31, 2020 | \$ 50,000                          | \$ | -0-                    | \$ | (50,000)   | \$ | -0-                          |
| December 31, 2019 | \$ 288,750                         | \$ | 161,250                | \$ | (400,000)  | \$ | 50,000                       |

## 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 Derivative Instruments:
  - 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. 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.

- 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 calculated based on prevailing market quotes in active markets (i.e. Henry Hub and So Cal) where identical contracts are available.

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, 2020 and 2019, 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, 2020 |                   |                   |
|--------------------------------------------------------|---------------------------------------|-------------------|-------------------|
|                                                        | Level 1                               | Level 2           | Total             |
|                                                        | (thousands of dollars)                |                   |                   |
| Investments, including cash and cash equivalents:      |                                       |                   |                   |
| LAIF                                                   | \$ -0-                                | \$ 512,682        | \$ 512,682        |
| U.S. Government Agency Obligations                     | -0-                                   | 85,636            | 85,636            |
| U.S. Treasury Obligations                              | 20,248                                | -0-               | 20,248            |
| Corporate Notes                                        | -0-                                   | 118,015           | 118,015           |
| Municipal Bonds                                        | -0-                                   | 63,647            | 63,647            |
| Total Investments, including cash and cash equivalents | <u>\$ 20,248</u>                      | <u>\$ 779,980</u> | <u>\$ 800,228</u> |
| Investment Derivative Instrument Assets:               |                                       |                   |                   |
| Gas related agreements                                 | \$ 33                                 | \$ -0-            | \$ 33             |
| Total Investment Derivative Instrument Assets          | <u>\$ 33</u>                          | <u>\$ -0-</u>     | <u>\$ 33</u>      |
| Hedging Derivative Instrument Assets:                  |                                       |                   |                   |
| Gas related agreements                                 | \$ 5,445                              | \$ -0-            | \$ 5,445          |
| Interest rate swap agreements                          | -0-                                   | 8,074             | 8,074             |
| Total Hedging Derivative Instrument Assets             | <u>\$ 5,445</u>                       | <u>\$ 8,074</u>   | <u>\$ 13,519</u>  |
| Investment Derivative Instrument Liabilities:          |                                       |                   |                   |
| Gas related agreements                                 | \$ 272                                | \$ -0-            | \$ 272            |
| Interest rate swap agreements                          | -0-                                   | 9,032             | 9,032             |
| Total Investment Derivative Instrument Liabilities     | <u>\$ 272</u>                         | <u>\$ 9,032</u>   | <u>\$ 9,304</u>   |
| Hedging Derivative Instrument Liabilities:             |                                       |                   |                   |
| Gas related agreements                                 | \$ 40,461                             | \$ -0-            | \$ 40,461         |
| Interest rate swap agreements                          | -0-                                   | 11,119            | 11,119            |
| Total Hedging Derivative Instrument Liabilities        | <u>\$ 40,461</u>                      | <u>\$ 11,119</u>  | <u>\$ 51,580</u>  |



Recurring Fair Value Measures

|                                                        | At fair value as of December 31, 2019 |                   |                   |
|--------------------------------------------------------|---------------------------------------|-------------------|-------------------|
|                                                        | Level 1                               | Level 2           | Total             |
|                                                        | (thousands of dollars)                |                   |                   |
| Investments, including cash and cash equivalents:      |                                       |                   |                   |
| LAIF                                                   | \$ -0-                                | \$ 104,742        | \$ 104,742        |
| U.S. Government Agency Obligations                     | -0-                                   | 178,167           | 178,167           |
| U.S. Treasury Obligations                              | 125,283                               | -0-               | 125,283           |
| Corporate Notes                                        | -0-                                   | 121,199           | 121,199           |
| Municipal Bonds                                        | -0-                                   | 48,076            | 48,076            |
| Total Investments, including cash and cash equivalents | <u>\$ 125,283</u>                     | <u>\$ 452,184</u> | <u>\$ 577,467</u> |
| Investment Derivative Instrument Assets:               |                                       |                   |                   |
| Gas related agreements                                 | \$ 488                                | \$ -0-            | \$ 488            |
| Total Investment Derivative Instrument Assets          | <u>\$ 488</u>                         | <u>\$ -0-</u>     | <u>\$ 488</u>     |
| Hedging Derivative Instrument Assets:                  |                                       |                   |                   |
| Gas related agreements                                 | \$ 7,247                              | \$ -0-            | \$ 7,247          |
| Interest rate swap agreements                          | -0-                                   | 9,471             | 9,471             |
| Total Hedging Derivative Instrument Assets             | <u>\$ 7,247</u>                       | <u>\$ 9,471</u>   | <u>\$ 16,718</u>  |
| Investment Derivative Instrument Liabilities:          |                                       |                   |                   |
| Gas related agreements                                 | \$ 3,122                              | \$ -0-            | \$ 3,122          |
| Interest rate swap agreements                          | -0-                                   | 7,882             | 7,882             |
| Total Investment Derivative Instrument Liabilities     | <u>\$ 3,122</u>                       | <u>\$ 7,882</u>   | <u>\$ 11,004</u>  |
| Hedging Derivative Instrument Liabilities:             |                                       |                   |                   |
| Gas related agreements                                 | \$ 83,074                             | \$ -0-            | \$ 83,074         |
| Interest rate swap agreements                          | -0-                                   | 2,120             | 2,120             |
| Total Hedging Derivative Instrument Liabilities        | <u>\$ 83,074</u>                      | <u>\$ 2,120</u>   | <u>\$ 85,194</u>  |

**NOTE 13. ACCRUED DECOMMISSIONING LIABILITY**

**Asset Retirement Obligations (ARO).** SMUD implemented GASB No. 83 in 2019. 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 (NWPA) 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. These applications are currently under review by the NRC. Should the NRC license one or both facilities, Congress will have to modify the NWPA 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 NWPA. 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. 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 2020. 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, 2020 is \$8.9 million.

**CVFA Power Plant.** CVFA's ground lease agreement with the Sacramento Regional County Sanitation District requires CVFA 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. CVFA used the annual All Urban Consumer Price Index to adjust this obligation for inflation in 2020. The remaining useful life of the Agency's assets is five years at December 31, 2020.

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, 2020 and 2019, SMUD's Accrued Decommissioning balance in the Statements of Net Position was \$99.5 million and \$91.7 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, 2019 and June 30, 2018.

During 2019, SMUD also provided a supplemental benefit in lieu of PERS' Single Highest Year (SHY) for certain represented employees hired before January 1, 2013. For these employees, if the present value of pension allowance under the PERS Plan with the employer paid member contributions (EPMC) benefit enhancement program is less than the present value of what the employee would have received under the PERS Plan benefit with SHY earnings but no EPMC, SMUD pays a lump sum equivalent to the difference. There are no assets accumulated in a trust for SHY. At December 31, 2020 SMUD no longer had an obligation to provide the supplemental benefit in lieu of PERS' SHY.

GASB No. 68 and GASB No. 73 require that the reported results must pertain to liability and asset information within certain defined timeframes. The following timeframes are used for the year ended:

| <b>PERS Plan</b> | <u>December 31,</u> |               |
|------------------|---------------------|---------------|
|                  | <u>2020</u>         | <u>2019</u>   |
| Valuation date   | June 30, 2019       | June 30, 2018 |
| Measurement date | June 30, 2020       | June 30, 2019 |

| <b>SHY</b>                          | <u>December 31,</u> |               |
|-------------------------------------|---------------------|---------------|
|                                     | <u>2020</u>         | <u>2019</u>   |
| Valuation date and Measurement date | N/A                 | June 30, 2019 |

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

| <b>PERS Plan</b>                                                         | <u>December 31,</u> |              |
|--------------------------------------------------------------------------|---------------------|--------------|
|                                                                          | <u>2020</u>         | <u>2019</u>  |
| Inactive employees or beneficiaries currently receiving benefit payments | 3,003               | 2,936        |
| Inactive employees entitled to but not yet receiving benefit payments    | 979                 | 946          |
| Active employees                                                         | <u>2,265</u>        | <u>2,260</u> |
| Total employees covered by benefit terms                                 | <u>6,247</u>        | <u>6,142</u> |

**SHY**

|                                                                          | December 31, |      |
|--------------------------------------------------------------------------|--------------|------|
|                                                                          | 2020         | 2019 |
| Inactive employees or beneficiaries currently receiving benefit payments | -0-          | -0-  |
| Inactive employees entitled to but not yet receiving benefit payments    | -0-          | -0-  |
| Active employees                                                         | -0-          | 215  |
| Total employees covered by benefit terms                                 | -0-          | 215  |

**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, 2020 and 2019, the average active employee contribution rate is 6.6 percent and 6.7 percent of annual pay, respectively. For the PERS fiscal year ended June 30, 2020, the employer's contribution rate is 8.7 percent of annual payroll plus \$31.1 million for the unfunded accrued liability contribution. For the PERS fiscal year ended June 30, 2019, the employer's contribution rate is 8.2 percent of annual payroll plus \$29.4 million for the unfunded accrued liability contribution. Employer contribution rates may change if plan contracts are amended. For the fiscal years ended June 30, 2020 and 2019, SMUD made contributions recognized by the PERS Plan in the amount of \$98.3 million and \$69.1 million, respectively.

**Net Pension Liability (NPL).** SMUD's NPL at December 31, 2020 and 2019 was measured at June 30, 2020 and 2019, respectively. The total pension liability used to calculate the NPL was determined by actuarial valuations as of June 30, 2019 and 2018 rolled forward using generally accepted actuarial procedures to the June 30, 2020 and 2019 measurement dates for the PERS Plan and actuarial valuations as of June 30, 2019 for SHY.

**Actuarial Methods and Assumptions.** The actuarial methods and assumptions used for the December 31, 2020 and December 31, 2019 total pension liabilities are as follows for the PERS Plan:

|                                  |                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Actuarial Cost Method            | Entry age normal                                                                                                                                                                                                                                                                                                                                     |
| Discount Rate                    | 7.15%                                                                                                                                                                                                                                                                                                                                                |
| Inflation                        | 2.5%                                                                                                                                                                                                                                                                                                                                                 |
| 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 2020 and 2019, the lesser of contract COLA or 2.5% until Purchasing Power Protection Allowance floor on purchasing power applies, 2.5% thereafter                                                                                                                                                                                                |

The actuarial methods and assumptions used for the December 31, 2019 total pension liabilities are as follows for SHY:

|                                                |                                                                   |
|------------------------------------------------|-------------------------------------------------------------------|
| Actuarial Cost Method                          | Entry age normal                                                  |
| Discount Rate                                  | Bond Buyer 20 Index - 3.50% (2019)                                |
| Inflation                                      | 2.5% (2019)                                                       |
| Salary Increases                               | Aggregate – 2.75% (2019); merit - PERS 1997-2015 Experience Study |
| Mortality, Retirement, Disability, Termination | PERS 1997-2015 Experience Study                                   |
| Mortality Improvement                          | Mortality projected 15 years with 90% of Scale MP-2016            |

**Discount Rates.** For the PERS Plan, the discount rate used to measure the total pension liability for the years ended December 31, 2020 and 2019 was 7.15 percent for both years. For the year ended December 31, 2020, 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 short-term (first 10 years) and the long-term (11-60 years) using a building-block approach.

The expected real rates of return by asset class used for December 31, 2020 are as follows:

| <u>Asset Class</u>  | <u>Current Target<br/>Allocation</u> | <u>Real Return<br/>Years 1-10</u> | <u>Real Return<br/>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%)                          |

The expected real rates of return by asset class used for December 31, 2019 are as follows:

| <u>Asset Class</u>  | <u>Current Target<br/>Allocation</u> | <u>Real Return<br/>Years 1-10</u> | <u>Real Return<br/>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 NPL.** The following table shows the changes in NPL recognized over the year ended December 31, 2020:

|                                                    | Total Pension<br>Liability (a) | Increase (Decrease)<br>Plan Fiduciary Net<br>Position (b) | Net Pension<br>Liability<br>(a) – (b) |
|----------------------------------------------------|--------------------------------|-----------------------------------------------------------|---------------------------------------|
|                                                    | (thousands of dollars)         |                                                           |                                       |
| Balances at January 1, 2020                        | \$ 2,332,097                   | \$ 1,864,450                                              | \$ 467,647                            |
| Changes recognized for the measurement period:     |                                |                                                           |                                       |
| Service cost                                       | 38,901                         | -0-                                                       | 38,901                                |
| Interest                                           | 164,044                        | -0-                                                       | 164,044                               |
| Changes in assumptions                             | -0-                            | -0-                                                       | -0-                                   |
| Differences between expected and actual experience | 9,981                          | -0-                                                       | 9,981                                 |
| Contributions - employer                           | -0-                            | 98,344                                                    | (98,344)                              |
| Contributions - employee                           | -0-                            | 18,095                                                    | (18,095)                              |
| Net investment income                              | -0-                            | 92,534                                                    | (92,534)                              |
| Benefit payments                                   | (125,581)                      | (125,581)                                                 | -0-                                   |
| Administrative expense                             | -0-                            | (2,628)                                                   | 2,628                                 |
| Other – GASB 73 pension liability write off        | (4,408)                        | -0-                                                       | (4,408)                               |
| Net changes                                        | <u>82,937</u>                  | <u>80,764</u>                                             | <u>2,173</u>                          |
| Balances at December 31, 2020                      | <u>\$ 2,415,034</u>            | <u>\$ 1,945,214</u>                                       | <u>\$ 469,820</u>                     |

The following table shows the changes in NPL recognized over the year ended December 31, 2019:

|                                                    | Total Pension<br>Liability (a) | Increase (Decrease)<br>Plan Fiduciary Net<br>Position (b) | Net Pension<br>Liability<br>(a) – (b) |
|----------------------------------------------------|--------------------------------|-----------------------------------------------------------|---------------------------------------|
|                                                    | (thousands of dollars)         |                                                           |                                       |
| Balances at January 1, 2019                        | \$ 2,234,911                   | \$ 1,780,867                                              | \$ 454,044                            |
| Changes recognized for the measurement period:     |                                |                                                           |                                       |
| Service cost                                       | 38,264                         | -0-                                                       | 38,264                                |
| Interest                                           | 158,160                        | -0-                                                       | 158,160                               |
| Changes in assumptions                             | (194)                          | -0-                                                       | (194)                                 |
| Differences between expected and actual experience | 18,561                         | -0-                                                       | 18,561                                |
| Contributions - employer                           | -0-                            | 69,119                                                    | (69,119)                              |
| Contributions - employee                           | -0-                            | 17,411                                                    | (17,411)                              |
| Net investment income                              | -0-                            | 115,867                                                   | (115,867)                             |
| Benefit payments                                   | (117,605)                      | (117,548)                                                 | (57)                                  |
| Administrative expense                             | -0-                            | (1,270)                                                   | 1,270                                 |
| Other                                              | -0-                            | 4                                                         | (4)                                   |
| Net changes                                        | <u>97,186</u>                  | <u>83,583</u>                                             | <u>13,603</u>                         |
| Balances at December 31, 2019                      | <u>\$ 2,332,097</u>            | <u>\$ 1,864,450</u>                                       | <u>\$ 467,647</u>                     |

**Sensitivity of the NPL to Changes in the Discount Rate.** The following presents the NPL of the Plan as of the measurement date, calculated using the current discount rate, as well as what the net pension liability 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<br><u>(6.15%)</u> | Current Discount<br><u>Rate (7.15%)</u> | 1% Increase<br><u>(8.15%)</u> |
|-------------------------------|-------------------------------|-----------------------------------------|-------------------------------|
| <b>PERS Plan</b>              |                               | (thousands of dollars)                  |                               |
| Plan's NPL, December 31, 2020 | \$ 777,072                    | \$ 469,820                              | \$ 214,331                    |
| Plan's NPL, December 31, 2019 | 761,785                       | 463,239                                 | 215,186                       |
| <b>SHY</b>                    |                               | (thousands of dollars)                  |                               |
| Plan's NPL, December 31, 2019 | \$ 5,375                      | \$ 4,408                                | \$ 3,642                      |

**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](http://www.calpers.ca.gov).

**Pension Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions.** For the years ended December 31, 2020 and 2019, SMUD recognized pension expense of \$79.7 million and \$91.8 million, respectively.

At December 31, 2020 and 2019, SMUD reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

|                                                                                               | <u>December 31,</u>    |                   |
|-----------------------------------------------------------------------------------------------|------------------------|-------------------|
|                                                                                               | <u>2020</u>            | <u>2019</u>       |
|                                                                                               | (thousands of dollars) |                   |
| Deferred outflows of resources:                                                               |                        |                   |
| Changes of assumptions                                                                        | \$ -0-                 | \$ 23,961         |
| Differences between expected and actual experience                                            | 17,222                 | 14,788            |
| Differences between projected and actual earnings on pension plan investments                 | 16,985                 | -0-               |
| Employer's contributions to the Plan subsequent to the measurement of total pension liability | <u>142,133</u>         | <u>67,119</u>     |
| Total deferred outflows of resources                                                          | <u>\$ 176,340</u>      | <u>\$ 105,868</u> |
| Deferred inflows of resources:                                                                |                        |                   |
| Changes of assumptions                                                                        | \$ 14,212              | \$ 30,825         |
| Differences between expected and actual experience                                            | -0-                    | 7,239             |
| Differences between projected and actual earnings on pension plan investments                 | <u>-0-</u>             | <u>7,932</u>      |
| Total deferred inflows of resources                                                           | <u>\$ 14,212</u>       | <u>\$ 45,996</u>  |

Amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows:

Year ended December 31:

|            |             |
|------------|-------------|
| 2021       | \$ (13,622) |
| 2022       | 13,040      |
| 2023       | 12,545      |
| 2024       | 8,032       |
| 2025       | -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 \$5.8 million in 2020 and \$5.4 million in 2019. 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 \$28.8 million in 2020 and \$24.8 million in 2019.

**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, |              |
|--------------------------------------------------------------------------|--------------|--------------|
|                                                                          | 2020         | 2019         |
| Inactive employees or beneficiaries currently receiving benefit payments | 2,286        | 2,244        |
| Inactive employees entitled to but not yet receiving benefit payments    | 46           | 44           |
| Active employees                                                         | 2,136        | 2,186        |
| Total employees covered by benefit terms                                 | <u>4,468</u> | <u>4,474</u> |

**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, 2020 and 2019, SMUD made contributions recognized by the OPEB Plan in the amounts of \$13.3 million and \$14.0 million, respectively.

**Net OPEB Asset (NOA) or Liability (NOL).** SMUD’s NOA at December 31, 2020 and NOL at December 31, 2019 was measured as of June 30, 2020 and 2019, respectively, and the total OPEB liability used to calculate the NOA and NOL was determined by actuarial valuations as of those dates.

**Actuarial Methods and Assumptions.** The actuarial methods and assumptions used for the December 31, 2020 and December 31, 2019 total OPEB liabilities are as follows:

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Discount Rate                                  | 6.37% (2020). Blended discount rate based on projected benefit streams expected to be paid from each Strategy. 6.40% (2019)                                                                                                                                                                                                                                                                                |
| Inflation                                      | 2.75%                                                                                                                                                                                                                                                                                                                                                                                                      |
| Salary Increases                               | Aggregate - 3.0%; merit - PERS 1997-2015 Experience Study                                                                                                                                                                                                                                                                                                                                                  |
| Mortality, Retirement, Disability, Termination | PERS 1997-2015 Experience Study                                                                                                                                                                                                                                                                                                                                                                            |
| Mortality Improvement                          | Mortality projected fully generational with Scale MP-19 (2020), MP-18 (2019)                                                                                                                                                                                                                                                                                                                               |
| Healthcare Cost Trend Rates                    | Non-medicare: 7.0% for 2022, decreasing to an ultimate rate of 4.0% in 2076 (2020); 7.25% for 2021, decreasing to an ultimate rate of 4.0% in 2076 (2019)<br>Kaiser Medicare: 5.0% for 2022, decreasing to an ultimate rate of 4.0% in 2076 (2020)<br>Medicare: 6.1% for 2022, decreasing to an ultimate rate of 4.0% in 2076 (2020); 6.3% for 2021, decreasing to an ultimate rate of 4.0% in 2076 (2019) |

**Discount Rates.** For the OPEB Plan, the discount rate used to measure the total OPEB liability was 6.37 percent and 6.40 percent for the years ended December 31, 2020 and 2019, 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 6.75 percent for Strategy 1 and 5.50 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, 2020 and 2019.

The expected real rates of return by asset class used and presented as geometric means for December 31, 2020 are as follows:

| <u>Asset Class</u> | <u>Target Allocation<br/>CERBT Strategy 1</u> | <u>Expected Real<br/>Rate of Return</u> |
|--------------------|-----------------------------------------------|-----------------------------------------|
| Global Equity      | 59%                                           | 4.82%                                   |
| Fixed Income       | 25%                                           | 1.47%                                   |
| TIPS               | 5%                                            | 1.29%                                   |
| Commodities        | 3%                                            | 0.84%                                   |
| REITS              | 8%                                            | 3.76%                                   |

| <u>Asset Class</u> | <u>Target Allocation<br/>CERBT Strategy 3</u> | <u>Expected Real<br/>Rate of Return</u> |
|--------------------|-----------------------------------------------|-----------------------------------------|
| Global Equity      | 22%                                           | 4.82%                                   |
| Fixed Income       | 49%                                           | 1.47%                                   |
| TIPS               | 16%                                           | 1.29%                                   |
| Commodities        | 5%                                            | 0.84%                                   |
| REITS              | 8%                                            | 3.76%                                   |

The expected real rates of return by asset class used and presented as geometric means for December 31, 2019 are as follows:

| <u>Asset Class</u> | <u>Target Allocation<br/>CERBT Strategy 1</u> | <u>Expected Real<br/>Rate of Return</u> |
|--------------------|-----------------------------------------------|-----------------------------------------|
| Global Equity      | 59%                                           | 4.82%                                   |
| Fixed Income       | 25%                                           | 1.47%                                   |
| TIPS               | 5%                                            | 1.29%                                   |
| Commodities        | 3%                                            | 0.84%                                   |
| REITS              | 8%                                            | 3.76%                                   |

| <u>Asset Class</u> | <u>Target Allocation<br/>CERBT Strategy 3</u> | <u>Expected Real<br/>Rate of Return</u> |
|--------------------|-----------------------------------------------|-----------------------------------------|
| Global Equity      | 22%                                           | 4.82%                                   |
| Fixed Income       | 49%                                           | 1.47%                                   |
| TIPS               | 16%                                           | 1.29%                                   |
| Commodities        | 5%                                            | 0.84%                                   |
| REITS              | 8%                                            | 3.76%                                   |

**Changes in the NOA/NOL.** The following table shows the changes in NOA/NOL recognized over the year ended December 31, 2020:

|                                                    | Total OPEB<br>Liability (a) | Increase (Decrease)<br>Plan Fiduciary Net<br>Position (b) | Net OPEB<br>(Asset) Liability<br>(a) – (b) |
|----------------------------------------------------|-----------------------------|-----------------------------------------------------------|--------------------------------------------|
|                                                    | (thousands of dollars)      |                                                           |                                            |
| Balances at January 1, 2020                        | \$ 419,483                  | \$ 387,272                                                | \$ 32,211                                  |
| Changes recognized for the measurement period:     |                             |                                                           |                                            |
| Service cost                                       | 8,903                       | -0-                                                       | 8,903                                      |
| Interest                                           | 26,653                      | -0-                                                       | 26,653                                     |
| Changes in assumptions                             | (11,453)                    | -0-                                                       | (11,453)                                   |
| Differences between expected and actual experience | (23,529)                    | -0-                                                       | (23,529)                                   |
| Contributions - employer                           | -0-                         | 13,299                                                    | (13,299)                                   |
| Net investment income                              | -0-                         | 20,447                                                    | (20,447)                                   |
| Benefit payments                                   | (23,848)                    | (23,848)                                                  | -0-                                        |
| Administrative expense                             | -0-                         | (191)                                                     | 191                                        |
| Net changes                                        | (23,274)                    | 9,707                                                     | (32,981)                                   |
| Balances at December 31, 2020                      | \$ 396,209                  | \$ 396,979                                                | \$ (770)                                   |

The following table shows the changes in NPL recognized over the year ended December 31, 2019:

|                                                    | Total OPEB<br>Liability (a) | Increase (Decrease)<br>Plan Fiduciary Net<br>Position (b) | Net OPEB<br>Liability<br>(a) – (b) |
|----------------------------------------------------|-----------------------------|-----------------------------------------------------------|------------------------------------|
|                                                    | (thousands of dollars)      |                                                           |                                    |
| Balances at January 1, 2019                        | \$ 399,845                  | \$ 377,779                                                | \$ 22,066                          |
| Changes recognized for the measurement period:     |                             |                                                           |                                    |
| Service cost                                       | 8,946                       | -0-                                                       | 8,946                              |
| Interest                                           | 26,766                      | -0-                                                       | 26,766                             |
| Changes in assumptions                             | 15,332                      | -0-                                                       | 15,332                             |
| Differences between expected and actual experience | (6,885)                     | -0-                                                       | (6,885)                            |
| Contributions - employer                           | -0-                         | 13,963                                                    | (13,963)                           |
| Net investment income                              | -0-                         | 20,132                                                    | (20,132)                           |
| Benefit payments                                   | (24,521)                    | (24,521)                                                  | -0-                                |
| Administrative expense                             | -0-                         | (81)                                                      | 81                                 |
| Net changes                                        | 19,638                      | 9,493                                                     | 10,145                             |
| Balances at December 31, 2019                      | \$ 419,483                  | \$ 387,272                                                | \$ 32,211                          |

**Sensitivity of the NOA/NOL to Changes in the Discount Rate.** The following presents the NOA/NOL of SMUD as of the measurement date, calculated using the current discount rate, as well as what the NOA/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</u><br><u>(5.37%)</u> | <u>Current Discount</u><br><u>Rate (6.37%)</u> | <u>1% Increase</u><br><u>(7.37%)</u> |
|------------------------------|--------------------------------------|------------------------------------------------|--------------------------------------|
| NOL/(NOA), December 31, 2020 | \$ 48,397                            | (thousands of dollars)<br>\$ (770)             | \$ (41,660)                          |
|                              | <u>1% Decrease</u><br><u>(5.40%)</u> | <u>Current Discount</u><br><u>Rate (6.40%)</u> | <u>1% Increase</u><br><u>(7.40%)</u> |
| NOL/(NOA), December 31, 2019 | \$ 85,866                            | (thousands of dollars)<br>\$ 32,211            | \$ (12,249)                          |

**Sensitivity of the NOA/NOL to Changes in the Healthcare Cost Trend Rates.** The following presents the NOA/NOL of SMUD as of the measurement date, calculated using the current healthcare cost trend rate, as well as what the NOA/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</u><br><u>Trend Rate</u> | <u>1% Increase</u> |
|------------------------------|--------------------|------------------------------------------------|--------------------|
| NOL/(NOA), December 31, 2020 | \$ (45,574)        | (thousands of dollars)<br>\$ (770)             | \$ 54,091          |
| NOL/(NOA), December 31, 2019 | \$ (16,289)        | \$ 32,211                                      | \$ 91,772          |

**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](http://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, 2020 and 2019, SMUD recognized OPEB expense of (\$3.2) million and (\$0.2) million, respectively.

At December 31, 2020 and 2019, SMUD reported deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

|                                                                                                 | <u>December 31,</u>    |                  |
|-------------------------------------------------------------------------------------------------|------------------------|------------------|
|                                                                                                 | <u>2020</u>            | <u>2019</u>      |
|                                                                                                 | (thousands of dollars) |                  |
| Deferred outflows of resources:                                                                 |                        |                  |
| Changes of assumptions                                                                          | \$ 11,448              | \$ 14,644        |
| Differences between projected and actual earnings on OPEB plan investments                      | 2,741                  | -0-              |
| Employer's contributions to the OPEB Plan subsequent to the measurement of total OPEB liability | <u>11,947</u>          | <u>12,014</u>    |
| Total deferred outflows of resources                                                            | <u>\$ 26,136</u>       | <u>\$ 26,658</u> |
| Deferred inflows of resources:                                                                  |                        |                  |
| Changes of assumptions                                                                          | \$ 9,479               | \$ -0-           |
| Differences between expected and actual experience                                              | 49,375                 | 42,593           |
| Differences between projected and actual earnings on OPEB plan investments                      | <u>-0-</u>             | <u>266</u>       |
| Total deferred inflows of resources                                                             | <u>\$ 58,854</u>       | <u>\$ 42,859</u> |

Amounts reported as deferred outflows of resources and deferred inflows of resources related to OPEB will be recognized in OPEB expense as follows:

|                         |             |
|-------------------------|-------------|
| Year ended December 31: |             |
| 2021                    | \$ (15,828) |
| 2022                    | (14,669)    |
| 2023                    | (5,141)     |
| 2024                    | (4,202)     |
| 2025                    | (4,825)     |
| 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 others. SMUD carries commercial insurance coverage to cover most claims in excess of specific dollar thresholds, which range from \$5.0 thousand to \$2.5 million per claim. General liability limits are \$140.0 million, excess of a \$5.0 million self-insured retention. As of December 31, 2020, wildfire liability limits are \$250.0 million (\$173.0 million commercial insurance plus \$77.0 million self-insured retention). As of December 31, 2019, SMUD had \$186.5 million commercial coverage plus \$63.5 million self-insured retention within a \$250.0 million total program value (i.e. this year's program has the same commercial coverage protection but a higher self-insured portion due to the continuing decrease in commercial capacity within the wildfire market). SMUD's property insurance coverage is based on the replacement value of the asset. There have been no significant reductions in insurance coverage, and in some cases, certain coverages increased. In 2020, 2019 and 2018, 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.

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, 2020, 2019 and 2018 is presented below:

|                                       | <u>2020</u>            | <u>2019</u>      | <u>2018</u>      |
|---------------------------------------|------------------------|------------------|------------------|
|                                       | (thousands of dollars) |                  |                  |
| Workers' compensation claims          | \$ 9,166               | \$ 10,005        | \$ 10,993        |
| General and auto claims               | 3,766                  | 3,867            | 3,523            |
| Short and long-term disability claims | <u>92</u>              | <u>201</u>       | <u>153</u>       |
| Claims liability                      | <u>\$ 13,024</u>       | <u>\$ 14,073</u> | <u>\$ 14,669</u> |

Changes in SMUD's total claims liability during 2020, 2019 and 2018 are presented below:

|                                                                  | <u>2020</u>            | <u>2019</u>      | <u>2018</u>      |
|------------------------------------------------------------------|------------------------|------------------|------------------|
|                                                                  | (thousands of dollars) |                  |                  |
| Claims liability, beginning of year                              | \$ 14,073              | \$ 14,669        | \$ 11,877        |
| Add: provision for claims, current year                          | 1,419                  | 1,789            | 2,601            |
| (Decrease) increase in provision for claims in prior years       | (8)                    | 11,434           | 10,450           |
| Less: payments on claims attributable to current and prior years | <u>(2,460)</u>         | <u>(13,819)</u>  | <u>(10,259)</u>  |
| Claims liability, end of year                                    | <u>\$ 13,024</u>       | <u>\$ 14,073</u> | <u>\$ 14,669</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, 2020, the approximate minimum obligations for the "take-or-pay" contracts over the next five years are as follows:

|      | <u>Electric</u>        | <u>Gas</u> |
|------|------------------------|------------|
|      | (thousands of dollars) |            |
| 2021 | \$ 99,746              | \$ 7,841   |
| 2022 | 99,917                 | 7,395      |
| 2023 | 98,651                 | 7,336      |
| 2024 | 33,039                 | 6,592      |
| 2025 | 12,188                 | 6,666      |

At December 31, 2020, the approximate minimum obligations for the remaining contracts, assuming the energy or gas is delivered over the next five years, are as follows:

|      | <u>Electric</u>        | <u>Gas</u> |
|------|------------------------|------------|
|      | (thousands of dollars) |            |
| 2021 | \$ 216,060             | \$ 131,197 |
| 2022 | 198,545                | 110,329    |
| 2023 | 194,677                | 115,194    |
| 2024 | 157,778                | 90,224     |
| 2025 | 156,955                | 66,848     |

**Contractual Commitments beyond 2025 - Electricity.** Several of SMUD's purchase power and transmission contracts extend beyond the five-year summary presented above. These contracts expire between 2026 and 2050 and provide for power under various terms and conditions. SMUD estimates its annual minimum commitments under the take-or-pay contracts ranges between \$12.2 million in 2026 and \$0.3 million in 2033. SMUD estimates its annual minimum commitments under the remaining contracts, assuming the energy is delivered, ranges between \$146.1 million in 2026 and \$9.9 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, 2023.

**Contractual Commitments beyond 2025 - 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 2026 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 \$6.7 million in 2026 and \$3.4 million in 2049. SMUD estimates its annual minimum commitments under the remaining contracts, assuming the gas is delivered, ranges between \$21.4 million in 2026 and \$5.4 million in 2049.

**Gas Price Swap Agreements.** SMUD has entered into numerous variable to fixed rate swaps with notional amounts totaling 99,702,500 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 \$2.22 to \$7.17 per Dth. The swap agreements expire periodically from January 2021 through December 2024.

**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 58,300 Dth per day (Dth/d) of natural gas pipeline capacity from the North, including the Canadian Basins through 2021 and 41,200 Dth/d from the Southwest or Rocky Mountain Basins through at least 2021.

**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 2022, dropping to 1.0 million Dth through March 2023.

**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 \$64.8 million at December 31, 2020.

**Construction Contracts.** SMUD has entered into various construction contracts for the construction of a new substation and improvements to the White Rock Powerhouse in the UARP. As of December 31, 2020, the not-to-exceed price for these contracts totaled \$90.8 million. The remaining contract obligations for these contracts as of December 31, 2020 was \$30.7 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.

**Construction Matters.** SMUD contracts with various firms to design and construct facilities for SMUD. Currently, SMUD is party to various claims, legal actions and complaints relating to such construction projects. 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.

**North City Environmental Remediation.** In 1950, SMUD purchased property (North City Site) from the City of Sacramento and the Western Railroad Company. Portions of the North City Site prior to the sale had been operated as a municipal landfill by the City of Sacramento and some of the property continued to be so after the sale. SMUD currently operates a bulk substation on the North City Site and plans to decommission the facility in the next few years. SMUD intends to assure compliance with State standards at closed landfill sites and is in the process of determining the appropriate remediation for the North City Site. In 2009, SMUD established a regulatory asset to defer recognition of the expense related to the investigation, design and remediation necessary for the North City Site, and recorded a liability for the full \$12.0 million estimated for the project. In 2012, the regulatory asset was fully amortized. As the owner of the North City Site, SMUD will play the principal role in the remediation selection and activities. SMUD has estimated the total exposure for closing the site at as high as \$12.0 million based on initial tests and studies of the site and approved and implemented cap designs for nearby former landfill areas. Costs could exceed that amount based on the need to design around transmission-related infrastructure improvements. SMUD's management does not, however, believe this will occur. Even if remediation costs associated with the North City Site were to increase, SMUD management believes that any increased costs will not have a material adverse effect on SMUD's financial position, liquidity or results of operations.

**Patua Acquisition Company, LLC.** On April 16, 2010, SMUD entered into a 23-year PPA with Patua Project, LLC. The fifth amendment to the PPA was signed on November 30, 2016, with the new project owner, Patua Acquisition Company, LLC (Patua). The PPA requires Patua to provide a warranty for the annual amount of energy and green attributes produced and delivered to SMUD, referred to as the Annual Delivery Warranty Amount (ADWA). If Patua fails to meet the ADWA for two consecutive years, it triggers SMUD's right to reduce the Guaranteed Capacity and Transmission Capacity Requirement as defined in the PPA.

On February 16, 2017, SMUD sent Patua a Notice of Failure to Meet Annual Performance Guarantee or the ADWA, Reduction of Phase 1 Guaranteed Capacity Resizing, and Reduction of Transmission Capacity Requirement pursuant to the terms of the PPA. Patua disagreed with the reductions and on June 9, 2017, after meetings with SMUD staff, sent a letter requesting a meeting with a senior officer to work towards a resolution in accordance with the dispute resolution provisions of the PPA. A meeting of the senior officers occurred. Staff continued to work through the issue with Patua to resolve the matter. On January 19, 2021, Patua provided SMUD a written confirmation that it considers the dispute to be resolved and releases and waives any claims against SMUD related to the 2017 ADWA and associated reduction in Guaranteed Capacity and Transmission Capacity. SMUD management does not believe that this 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 19, 2021, the date that the financial statements were available to be issued, for events requiring recording or disclosure in the financial statements.



**Required Supplementary Information – Unaudited  
For the Years Ended December 31, 2020 and 2019**

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

|                                                                            | December 31,           |                     |                     |                     |                     |                     |                     |
|----------------------------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                                                                            | 2020                   | 2019                | 2018                | 2017                | 2016                | 2015                | 2014                |
|                                                                            | (thousands of dollars) |                     |                     |                     |                     |                     |                     |
| Total pension liability:                                                   |                        |                     |                     |                     |                     |                     |                     |
| Service cost                                                               | \$ 38,901              | \$ 38,061           | \$ 36,029           | \$ 35,040           | \$ 29,044           | \$ 27,991           | \$ 28,170           |
| Interest                                                                   | 164,044                | 157,976             | 151,354             | 150,119             | 147,497             | 142,468             | 137,546             |
| Changes of assumptions                                                     | -0-                    | -0-                 | (61,585)            | 123,043             | -0-                 | (34,228)            | -0-                 |
| Differences between expected and actual experience                         | 9,981                  | 18,877              | 1,293               | (29,276)            | (8,357)             | (10,613)            | -0-                 |
| Benefit payments, including refunds of employee contributions              | (125,581)              | (117,548)           | (111,763)           | (104,428)           | (99,155)            | (94,636)            | (90,175)            |
| Net change in total pension liability                                      | 87,345                 | 97,366              | 15,328              | 174,498             | 69,029              | 30,982              | 75,541              |
| Total pension liability, beginning of year                                 | 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>\$ 2,415,034</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                                                   | \$ 98,344              | \$ 69,119           | \$ 90,141           | \$ 32,389           | \$ 27,645           | \$ 22,499           | \$ 21,511           |
| Contributions - employee                                                   | 18,095                 | 17,411              | 16,832              | 15,845              | 15,271              | 14,503              | 15,346              |
| Net investment income                                                      | 92,534                 | 115,867             | 138,739             | 171,596             | 8,316               | 35,797              | 245,659             |
| Benefit payments, including refunds of employee contributions              | (125,581)              | (117,548)           | (111,763)           | (104,428)           | (99,155)            | (94,636)            | (90,175)            |
| Administrative expense                                                     | (2,628)                | (1,270)             | (7,474)             | (2,275)             | (969)               | (1,795)             | (2,028)             |
| Other                                                                      | -0-                    | 4                   | (4)                 | -0-                 | 34                  | (25)                | -0-                 |
| Net change in plan fiduciary net position                                  | 80,764                 | 83,583              | 126,471             | 113,127             | (48,858)            | (23,657)            | 190,313             |
| Plan fiduciary net position, beginning of year                             | 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>\$ 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, ending (a) - (b)                                    | <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 | 80.5%                  | 80.1%               | 79.8%               | 74.7%               | 75.5%               | 80.7%               | 83.2%               |
| Covered payroll                                                            | \$ 254,756             | \$ 247,759          | \$ 235,902          | \$ 223,685          | \$ 207,119          | \$ 197,481          | \$ 191,439          |
| Net pension liability as a percentage of covered payroll                   | 184.4%                 | 187.0%              | 190.5%              | 250.6%              | 241.0%              | 193.1%              | 170.7%              |

**PERS Plan.** The schedule of changes in NPL 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, 2019 valuation date. This applies for voluntary benefit changes as well as any offers of two years additional service credit.

**Changes in Assumptions:** No changes in 2020. In 2018, demographic assumptions and inflation rate were changed in accordance to the PERS Experience and Study and Review of Actuarial Assumptions December 2017. There were no changes in the discount rate. In 2017, the accounting discount rate reduced from 7.65 percent to 7.15 percent. In 2016, there were no changes. In 2015, amounts reported reflect an adjustment of the discount rate from 7.5 percent (net of administrative expense) to 7.65 percent (without a reduction for pension plan administrative expense). In 2014, amounts reported were based on the 7.5 percent discount rate.

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

|                                                          | December 31,           |                 |                 |                 |                 |
|----------------------------------------------------------|------------------------|-----------------|-----------------|-----------------|-----------------|
|                                                          | 2020                   | 2019            | 2018            | 2017            | 2016            |
|                                                          | (thousands of dollars) |                 |                 |                 |                 |
| Total pension liability:                                 |                        |                 |                 |                 |                 |
| Service cost                                             | \$ -0-                 | \$ 203          | \$ 216          | \$ 300          | \$ 218          |
| Interest                                                 | -0-                    | 184             | 194             | 193             | 195             |
| Changes of assumptions                                   | -0-                    | (194)           | (76)            | (827)           | 1,118           |
| Differences between expected and actual experience       | -0-                    | (316)           | (947)           | (914)           | -0-             |
| Benefit payments                                         | -0-                    | (57)            | -0-             | -0-             | -0-             |
| Other - Write off Pension Liability                      | (4,408)                | -0-             | -0-             | -0-             | -0-             |
| Net change in total pension liability                    | (4,408)                | (180)           | (613)           | (1,248)         | 1,531           |
| Total pension liability, beginning of year               | 4,408                  | 4,588           | 5,201           | 6,449           | 4,918           |
| Total pension liability, end of year                     | <u>\$ -</u>            | <u>\$ 4,408</u> | <u>\$ 4,588</u> | <u>\$ 5,201</u> | <u>\$ 6,449</u> |
| <br>                                                     |                        |                 |                 |                 |                 |
| Covered payroll                                          | N/A                    | \$ 18,695       | \$ 20,466       | \$ 21,743       | \$ 21,748       |
| <br>                                                     |                        |                 |                 |                 |                 |
| Net pension liability as a percentage of covered payroll | N/A                    | 23.6%           | 22.4%           | 23.9%           | 29.7%           |

SHY. The schedule of changes in NPL 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: There are no longer any benefits to active members.

Changes in Assumptions: In 2019, the discount rate was updated based on the municipal bond rate as of the measurement date and was updated from 3.87 percent to 3.5 percent. Inflation was updated from 2.75 percent to 2.50 percent and the aggregate salary increase was updated from 3.00 percent to 2.75 percent. In 2018, the discount rate was updated from 3.58 percent to 3.87 percent. Demographic assumptions were updated to the PERS 1997-2015 experience study. In 2017, the discount rate was updated from 2.85 percent to 3.58 percent.

## Schedule of Plan Contributions for Pension – PERS Plan

|                                                                      | December 31,           |                    |                    |                 |                 |                 |                 |
|----------------------------------------------------------------------|------------------------|--------------------|--------------------|-----------------|-----------------|-----------------|-----------------|
|                                                                      | 2020                   | 2019               | 2018               | 2017            | 2016            | 2015            | 2014            |
|                                                                      | (thousands of dollars) |                    |                    |                 |                 |                 |                 |
| Actuarially determined contribution                                  | \$ 52,276              | \$ 49,119          | \$ 40,142          | \$ 32,389       | \$ 27,645       | \$ 22,499       | \$ 21,511       |
| Contributions in relation to the actuarially determined contribution | <u>(98,344)</u>        | <u>(69,119)</u>    | <u>(90,142)</u>    | <u>(32,389)</u> | <u>(27,645)</u> | <u>(22,499)</u> | <u>(21,511)</u> |
| Contribution excess                                                  | <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                                                      | \$ 254,756             | \$ 247,759         | \$ 235,902         | \$ 223,685      | \$ 207,119      | \$ 197,481      | \$ 191,439      |
| Contributions as a percentage of covered payroll                     | 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, 2020 was derived from the June 30, 2017 funding valuation report.

|                            |                                                                                                                                                                                                                                                                           |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Actuarial cost method      | Entry age normal                                                                                                                                                                                                                                                          |
| Amortization method/period | For details, see June 30, 2017 Funding Valuation Report                                                                                                                                                                                                                   |
| Asset valuation method     | Fair value of assets. For details, see June 30, 2017 Funding Valuation Report                                                                                                                                                                                             |
| Inflation                  | 2.625%                                                                                                                                                                                                                                                                    |
| Salary increases           | Varies by entry age and service                                                                                                                                                                                                                                           |
| Payroll growth             | 2.875%                                                                                                                                                                                                                                                                    |
| Investment rate of return  | 7.25% 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 BB published by the Society of Actuaries. |

In 2019, the investment rate of return was 7.375%. 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**

|                                                                         | December 31,           |                   |                   |                   |
|-------------------------------------------------------------------------|------------------------|-------------------|-------------------|-------------------|
|                                                                         | 2020                   | 2019              | 2018              | 2017              |
|                                                                         | (thousands of dollars) |                   |                   |                   |
| <b>Total OPEB liability:</b>                                            |                        |                   |                   |                   |
| Service cost                                                            | \$ 8,903               | \$ 8,946          | \$ 9,263          | \$ 8,993          |
| Interest on total OPEB liability                                        | 26,653                 | 26,766            | 29,656            | 28,676            |
| Changes of assumptions                                                  | (11,453)               | 15,332            | 3,105             | -0-               |
| Differences between expected and actual experience                      | (23,529)               | (6,885)           | (59,921)          | -0-               |
| Benefit payments, including refunds of employee contributions           | (23,848)               | (24,521)          | (24,672)          | (22,192)          |
| Net change in total OPEB liability                                      | (23,274)               | 19,638            | (42,569)          | 15,477            |
| Total OPEB liability, beginning of year                                 | 419,483                | 399,845           | 442,414           | 426,937           |
| Total OPEB liability, end of year (a)                                   | <u>\$ 396,209</u>      | <u>\$ 419,483</u> | <u>\$ 399,845</u> | <u>\$ 442,414</u> |
| <b>Plan fiduciary net position:</b>                                     |                        |                   |                   |                   |
| Contributions - employer                                                | \$ 13,299              | \$ 13,963         | \$ 34,243         | \$ 114,573        |
| Net investment income                                                   | 20,447                 | 20,132            | 27,295            | 24,104            |
| Benefit payments, including refunds of employee contribution            | (23,848)               | (24,521)          | (24,672)          | (22,192)          |
| Administrative expense                                                  | (191)                  | (81)              | (635)             | (123)             |
| Net change in plan fiduciary net position                               | 9,707                  | 9,493             | 36,231            | 116,362           |
| Plan fiduciary net position, beginning of year                          | 387,272                | 377,779           | 341,548           | 225,186           |
| Plan fiduciary net position, end of year (b)                            | <u>\$ 396,979</u>      | <u>\$ 387,272</u> | <u>\$ 377,779</u> | <u>\$ 341,548</u> |
| Net OPEB liability/(asset), ending (a) - (b)                            | <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 | 100.2%                 | 92.3%             | 94.5%             | 77.2%             |
| Covered payroll                                                         | \$ 287,001             | \$ 282,993        | \$ 269,753        | \$ 252,211        |
| Net OPEB liability/(asset) as a percentage of covered payroll           | -0.3%                  | 11.4%             | 8.2%              | 40.0%             |

**OPEB.** The schedule of changes in NOA/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.

**Notes to Schedule**

Benefit Changes: There were no changes to benefits.

Changes in Assumptions: 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. In 2019, the discount rate was updated to reflect the split of assets between Strategy 1 and Strategy 3, and the mortality improvement scale was updated to Scale MP-2018.



## 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.

|                                                                      | December 31,           |            |             |             |
|----------------------------------------------------------------------|------------------------|------------|-------------|-------------|
|                                                                      | 2020                   | 2019       | 2018        | 2017        |
|                                                                      | (thousands of dollars) |            |             |             |
| Actuarially determined contribution                                  | \$ 12,201              | \$ 10,710  | \$ 15,366   | \$ 16,472   |
| Contributions in relation to the actuarially determined contribution | (13,233)               | (13,155)   | (35,128)    | (116,181)   |
| Contribution excess                                                  | \$ (1,032)             | \$ (2,445) | \$ (19,762) | \$ (99,709) |
| Covered payroll                                                      | \$ 289,552             | \$ 286,835 | \$ 277,193  | \$ 260,210  |
| Contributions as a percentage of covered payroll                     | 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, 2020 were derived from the June 30, 2019 funding valuation report.

|                        |                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Actuarial cost method  | Entry age normal                                                                                                                                        |
| Amortization method    | Level percent of pay                                                                                                                                    |
| Amortization period    | 26-year fixed period for 2020                                                                                                                           |
| Asset valuation method | Market value of assets                                                                                                                                  |
| Discount rate          | 6.75% for all actives and retirements after 6/30/2018, 5.50% for all retirements before 6/30/2018                                                       |
| Inflation              | 2.75%                                                                                                                                                   |
| Medical trend          | Non-Medicare: 7.25% for 2021, decreasing to an ultimate rate of 4.0% in 2076<br>Medicare: 6.3% for 2021, decreasing to an ultimate rate of 4.0% in 2076 |
| Mortality              | PERS 1997-2015 experience study                                                                                                                         |
| Mortality improvement  | Post-retirement mortality projected fully generational with Scale MP-18                                                                                 |

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.