# 2020 Budget

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# 2020 Budget Strategic Direction Purpose, Vision & Values

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## **Strategic Direction**



### Core Values: Strategically Essential for SMUD

- SD-1 Purpose and Vision Statement
- SD-2 Competitive Rates
- SD-3 Access to Credit Markets
- SD-4 Reliability
- SD-5 Customer Relations
- SD-6 Safety
- SD-7 Environmental Leadership

- SD-8 Employee Relations
- SD-9 Resource Planning
- SD-10 Innovation
- SD-11 Public Power Business Model
- SD-12 Ethics
- SD-16 Information Management & Security Policy
- SD-17 Enterprise Risk Management

## Key Values: Provide Value-Added Services

- SD-13 Economic Development
- SD-14 System Enhancement
- SD-15 Outreach & Communication
- SD-19 Diversified Business



## **Purpose Statement**

SD-1A SMUD is community-owned. Our purpose is to enhance the quality of life for our customers and community through creative energy solutions.

## **Vision Statement**

SD-1B SMUD's vision is to be the trusted partner with our customers and community, providing innovative solutions to ensure energy affordability and reliability, improve the environment, reduce our region's carbon footprint, and enhance the vitality of our community.

## Strategic Direction (continued)



### Core Values: Strategically Essential for SMUD

- SD-2 Maintain Competitive Rates
- SD-3 Maintain Access to Credit Markets
- SD-4 <u>Reliability</u> Meeting customer energy requirements
- SD-5 Maintain a high level of Customer Relations
- SD-6 <u>Safety</u> Creating a safe environment for employees and the public is a core value of SMUD
- SD-7 <u>Environmental Leadership</u> Community engagement, continuous improvement in pollution prevention, carbon reduction, energy efficiency, and conservation
- SD-8 <u>Employee Relations</u> Developing and maintaining a high quality, inclusive workplace that engages and inspires employees to commit to SMUD's purpose, vision and values

## Strategic Direction (continued)



### Core Values: Strategically Essential for SMUD

- SD-9 Provide customer-owners with a sustainable power supply through the use of an integrated <u>Resource Planning</u> process
- SD-10 Deliver <u>innovative</u> solutions, products and services to our customers
- SD-11 <u>Public Power Business Model</u> Support and strengthen the public power business model
- SD-12 <u>Ethics</u> Maintain the public trust and confidence in the integrity and ethical conduct of the Board and SMUD employees
- SD-16 Information Management and Security Policy Proper management of cyber and physical information are critical to effective risk management and to ensure regulatory compliance, business resiliency and customer satisfaction. SMUD will take prudent and reasonable measures to ensure information security, customer privacy and proper record management.
- SD-17 SMUD will implement and maintain an integrated <u>enterprise risk</u> <u>management</u> process that identifies, assesses, manages and mitigates a variety of risks facing SMUD, including financial, supply, operational, physical security, climate change, legal, legislative and regulatory, and reputational risk.



## Key Values: Provide Value-Added Services

- SD-13 <u>Economic Development</u> Promote economic vitality of our region and the growth of our customer base
- SD-14 Make selected distribution <u>system enhancements</u> such as relocation or underground placement of primary power lines.
- SD-15 Broad Outreach and Communication to SMUD's customers and the community
- SD-19 Broaden and <u>diversify</u> the products and services that SMUD offers

# 2020 Budget Performance Metrics

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## **Performance Metrics**



| Strategic Direction                 | Metric   |     | 2019<br>Forecast                            | 2019<br>Target                              | 2020<br>Target                              |
|-------------------------------------|--|-----|---|---|---|
|                                     | Competitive System Average Rates                               |     |   |   |   |
| SD-2                                | Percent below Pacific Gas & Electric                           | [1] | 36.5%                                       | 18.0%                                       | 18.0%                                       |
| Competitive<br>Rates                | Percent below each Customer Class                              | [1] | Meet 10% Goal<br>for each<br>Customer class | Meet 10% Goal for<br>each Customer<br>class | Meet 10% Goal for<br>each Customer<br>class |
| SD-3<br>Access to<br>Credit Markets | Fixed Charge Ratio of at least 1.50                            | [2] | 1.90  | 1.76  | 1.69  |
|                                     | Customer Load Demand   | [3] | 100%  | 100%  | 100%  |
|                                     | SMUD Availability of Generation Assets                         | [4] | 98%   | 97%   | 97%   |
|                                     | Overall Availability of Transmission<br>Assets                 |     | 100%  | >99.99%                                     | >99.99%                                     |
| SD-4<br>Reliability                 | Distribution System Reliability<br>Duration of Outages (SAIDI) | [5] |   |   |   |
|                                     | SAIDI With Major Event   |     | 102.4 min                                   | 67.5 - 93.3 min                             | 67.5 - 93.3 min                             |
|                                     | SAIDI Excludes Major Event                                     |     | 53.9 min                                    | 49.7 - 68.7 min                             | 49.7 - 68.7 min                             |
|                                     | Frequency of Outages (SAIFI)                                   | [5] |   |   |   |
|                                     | SAIFI With Major Event   |     | 1.2   | 0.99 - 1.33                                 | 0.99 - 1.33                                 |
|                                     | SAIFI Excludes Major Event                                     |     | 0.9   | 0.85 - 1.14                                 | 0.85 - 1.14                                 |
| SD-5                                | Customer Satisfaction Survey                                   |     | 95%   | 95%   | 95%   |
| Customer<br>Relations               | Value for What You Pay   |     | 69%   | 73%   | 70%   |

## Performance Metrics (continued)



| Strategic<br>Direction           | Metric   |      | 2019<br>Forecast | 2019<br>Target | 2020<br>Target |
|----------------------------------|--|------|------------------|----------------|----------------|
| Dirottion                        | Shift safety culture, improve safety   |      | 10100031         | laiget         | laiget         |
|                                  | results, and maintain positive financial   |      |                  |                |                |
|                                  | performance  |      |                  |                |                |
|                                  | Leading Indicator  |      |                  |                |                |
|                                  | Employee-Supervisor Interactions   |      | 100%             | 95%            | 95%            |
|                                  | Incident Reports $\leq$ 3 days   | [6]  | 100%             | 95%            | 95%            |
|                                  | Incident Investigations $\leq$ 5 days  | [7]  | 90%              | 95%            | 95%            |
|                                  | Days Away Restricted Time (DART)   | [8]  |                  |                |                |
| SD-6                             | Annual average   |      | 1.0              | 1.4            | 1.0            |
| Safety                           | Workers' Compensation<br>Average Workers' Compensation Cost<br>per \$100 payroll (Actuarial Basis)<br>(Maintain positive financial performance<br>of the workers' compensation program.) | [9]  | \$0.68           | \$0.94         | \$0.94         |
|                                  | Public Safety<br>Corrective actions implemented (to<br>protect the public from injuries related to<br>SMUD ops. or facilities.)  |      | 100%             | 95%            | 95%            |
| SD-8                             | Employee Engagement  |      |                  |                |                |
| Employee<br>Relations            | Sustain Employee Engagement  | [10] | 87%              | >80%           | >80%           |
|                                  | Energy Savings   | [11] |                  |                |                |
| SD-9                             | GWh Savings - Energy Efficiency  |      | 164              | 161            | 161            |
| Resource<br>Planning <u>R</u>    | Renewable Energy to meet SMUD's Load<br>Renewable Portfolio Standards (RPS)  | [12] | 31.0%            | 31.0%          | 33.0%          |
| SD-13<br>Economic<br>Development | Supplier Education and Economic<br>Development (SEED) - Percent of<br>Contract Dollars   |      | 28%              | 20%            | 20%            |



#### Footnotes:

- [1] 2019 Forecast is based on rate forecasts as of September 2019.
- [2] Fixed Charge Ratio 2019 Forecast is as of October 2019.
- [3] Customer Load Demand met through Use of Generation Resources and Purchased Power Portfolio. Target reflects Board Generation Resources and Purchase Power Portfolio Target.
- [4] Maintain high level of availability of generation assets (adjusted IEEE availability for peak load season June September). Supports Board target for overall availability of transmission assets.
- [5] 2019 Forecast is based on 2019 Actuals through September 30 and 2014-2018 for October through December. One major event occurred January 6-7th, 2019. In 2019, 3 of the 4 metrics for SAIDI/SAIFI are projected to be within the Strategic Direction. The impact to SAIDI during the major event far exceeded the allowance provided for the SAIDI major event threshold.
- [6] Employee-Supervisor Interactions Incident Reports excludes incident types where the date of injury may be difficult to determine. It measures the percentage of reports completed within the target date, which is normally set to 3 days, but may be extended due to extenuating circumstances.
- [7] Incident Investigations excludes incident types where the investigation may require coordination of outside parties or may have a high degree of complexity. It measures the percentage of investigations completed within the target date, which is normally set to 5 days, but may be extended due to extenuating circumstances.
- [8] Board SD-6 targeted to reduce SMUD's injury severity rate to 1.4 by 2020.
- [9] The projected loss rates per \$100 payroll (for 2019/20 and 2020/21) are calculated based on SMUD's historical loss experience and actuarial judgment.
- [10] Employee Engagement metrics reflects the percentage of employees classified as "fully engaged" and "key contributor" combined together to exceed 80% as measured through the bi-annual engagement survey. As we evaluate improved approaches to measuring an organization's engagement, this metric may be modified.
- [11] Total energy savings goals are reflective of Board's 10-year energy efficiency goals. GWh savings for 2020 Target include 10 GWh of Electrification, 148 GWh of Energy Efficiency Estimated Pilots, and 3 GWh of Low Income.
- [12] SMUD will meet the 2019 target (31%; ~3,130 GWh) using forecasted 2019 generation (31.2%; ~3,150 GWh). The 2020 Renewable Portfolio Standards (RPS) target is 33% (~3,350 GWh). The RPS statutes allow renewables procured above the compliance period targets to be carried over and applied in future compliance periods.

# 2020 Budget Business Units & Segments and Organizational Chart

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## **Business Units & Segments**

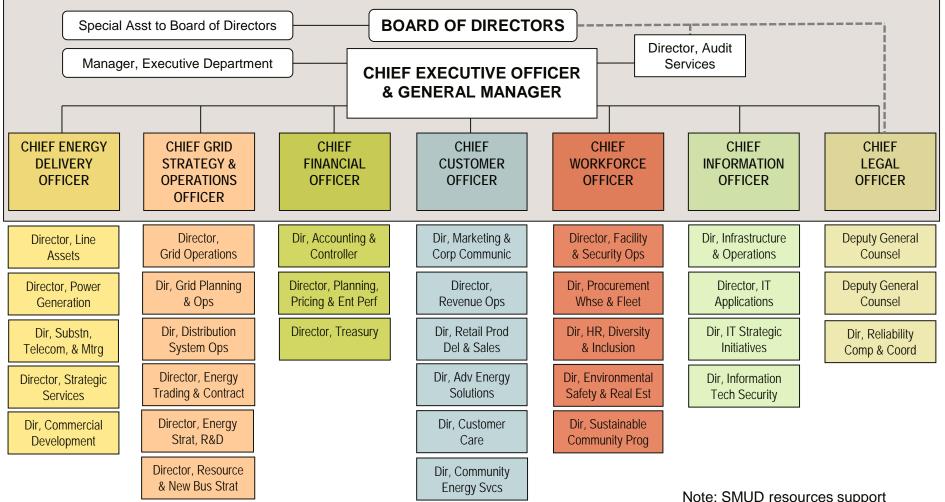


The SMUD Budget is planned by Business Unit processes which in some cases differs from the organizational/functional reporting structure.

| Customer/<br>Community                             | Energy<br>Operations                             | Energy<br>Delivery  | Internal   | Technology                           | Corporate  |
|--|--|---------------------|------------|--------------------------------------|--|
| Retail Product<br>Delivery &<br>Sales              | Grid Planning &<br>Operations                    | Power<br>Generation | Operations | Applications                         | Governance   |
| Advanced<br>Energy<br>Solutions                    | Commodity,<br>Procurement &<br>Sales             | Grid Assets         | Services   | Infrastructure & Operations          | Strategic &<br>Finance                                 |
| Revenue<br>Operations                              | Energy<br>Strategy,<br>Research &<br>Development |                     | Support    | Strategy<br>Planning &<br>Governance | Legal, Gov't<br>Affairs &<br>Reliability<br>Compliance |
| Communic.<br>Marketing &<br>Community<br>Relations | Resource &<br>New Business<br>Strategy           |                     |            | Strategic<br>Initiatives             | Enterprise<br>Affairs                                  |
| Customer Care                                      | Integrated<br>Resource Plan                      |                     |            | Information<br>Security              |  |

## **Organization Chart by Executive**





<u>Note</u>: SMUD resources support Business Unit processes regardless of organization/functional affiliation.

# 2020 Budget Economic Outlook & Assumptions

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The planning data presented here is based on a recent update as part of the Corporate Resource Planning process.

Customer count is up slightly in the 2019 Forecast from what was assumed in the 2019 Budget. Looking ahead, we are seeing regular growth in the future in residential customers and commercial customers.

New customers to be added to SMUD's customer base in 2020 are projected to total approximately 5,579. This is about a 1 percent annual growth rate, which is below the average growth during the past decade. Of the 2020 projection, 4,825 are new residential customers and 754 are other customers.

|                           | 2019          | 2019            | 2020          |
|---------------------------|---------------|-----------------|---------------|
|                           | <b>BUDGET</b> | <b>FORECAST</b> | <b>BUDGET</b> |
| New residential customers | 5,196         | (218)           | 4,825         |
| All other new customers   | (9)           | 447             | 754           |
| TOTAL new customers*      | 5,187         |                 | 5,579         |
|                           |               |                 |               |
| Residential customers     | 563,035       | 562,817         | 567,860       |
| All other customers       | 75,126        | 75,573          | 75,880        |
| TOTAL customers**         | 638,161       | 638,390         | 643,740       |

\*Reflects monthly average instead of end-of-year count in order to reflect the fluctuation of SMUD's customer growth.

## Economic Outlook & Assumptions



#### (continued)

Energy sales to customers is projected to decrease from the 2019 Budget assumption.

Unmanaged Peak load is forecasted to decrease by 5MW from the 2019 Budget assumption.

|                           | 2019          | 2020          |
|---------------------------|---------------|---------------|
|                           | <b>BUDGET</b> | <b>BUDGET</b> |
| Billed energy sales (GWh) | 10,348        | 10,258        |
| Peak load (MW)            | 2,855         | 2,850         |

#### Inflation Escalation Factors:

The forecasted inflation factor for use where applicable in preparing the 2020 Budget is 2%. The longer-term outlook (ten years) used in the business strategy update is the same, at 2% per year.

The cost-of-living (COLA) increase for SMUD salaries and wages during 2020 is based on formulas contained in negotiated bargaining agreements.



#### (continued)

### **Power Supply Assumptions**

The Integrated Resource Plan is the basis for the operating assumptions for the 2020 Budget. Electricity prices are forecast to be higher, and natural gas prices are forecast to be lower in the 2020 Proposed Budget than what was forecast in the 2019 Budget. The Upper American River Project (UARP) generation and renewable generation are forecasted to be slightly lower in 2020, while thermal generation is forecasted also to be slightly lower in the 2020 Budget.

SMUD became a Control Area, presently called a Balancing Authority (BA), in June 2002 and since then has operated its transmission and generation system independently. On January 1, 2006, the Western Area Power Administration's Sierra Nevada Region (WAPA-SNR) was integrated into the SMUD BA, followed on December 1, 2006, by the California-Oregon Transmission Project (COTP) – a 500kV transmission line - and the Modesto Irrigation District (MID). On May 8, 2009, together with MID and the cities of Redding and Roseville, SMUD entered into a Joint Powers Agreement to create the new Balancing Authority of Northern California (BANC). With regulatory approval on May 1, 2011, the operations of SMUD BA were transferred to BANC BA. BANC uses SMUD's existing employees and physical resources to be the BANC Operator. BANC's General Manager reports to a five person Commission made up of SMUD, MID, City of Redding, City of Roseville, and Trinity Public Utility Districts chief executives. This BA, as an independent entity, is not subject to market disruptions that result from financially induced supply shortages within the California Independent System Operator (CAISO) or investor-owned utilities. SMUD is still subject to certain CAISO transmission, grid management and other costs for transactions that use the CAISO controlled grid. These costs have been included in SMUD's 2020 Budget.

## **Economic Outlook & Assumptions (Content of Second Secon**



#### (continued)

### **SMUD Generation**

SMUD Hydroelectric (Upper American River Project): The 2020 Plan assumes median rainfall and normal starting reservoir levels in 2020. Generation is expected to be 1,522 GWh.

Other SMUD Generation (South Fork, Photovoltaic, Solano Wind): The 2020 Plan assumes average generation subject to limitations governing the operation of each plant. The largest contributor, Solano Wind Phases 1, 2 & 3 is expected to generate 619 GWh.

SFA Cosumnes Power Plant: This 500 MW gas-fired combined cycle power plant began commercial operation in February 2006. Forecasted generation from this plant in 2020 is 3,989 GWh.

**CVFA Carson Cogeneration:** This gas-fired cogeneration project, which began commercial operation in October 1995, consists of a 61 MW combined cycle unit and a 42 MW peaking unit. With the installation of an auxiliary steam boiler in 2017, if running the cogeneration unit is uneconomic, it can be turned off. Energy will be supplied from the auxiliary boiler instead of the cogeneration unit. The forecasted generation from this facility in 2020 is 269 GWh.

SCA Procter & Gamble Cogeneration: This gas-fired cogeneration plant began commercial operation in March 1997. It consists of a 120 MW combined cycle power plant and a 49 MW peaking unit that became operational in May 2001. With the installation of an auxiliary steam boiler in 2016, if running the cogeneration unit is uneconomic, it can be turned off. Steam will be supplied from the auxiliary boiler instead of the cogeneration unit. Forecasted generation from this facility in 2020 is 601 GWh.

SPA Campbell Soup Cogeneration: This gas-fired combined cycle plant, began commercial operation in December 1997. It consists of a 170 MW combined cycle power unit. Beginning in 2008 the 72 MW McClellan gas turbine is also included under SPA. Forecasted generation from these two units in 2020 is 569 GWh.

## Economic Outlook & Assumptions () SMUD



### (continued) **Purchased Power**

The 2020 Plan assumes delivery of energy and capacity from the following contracts:

Western Area Power Administration (WAPA) / Central Valley Project (CVP): Provide 376 MW of capacity and 661 GWh of energy. Under a separate agreement, WAPA provides 38 GWh to serve its customers located within SMUD's service territory.

Kiefer Landfill: Provide a total of 14.0 MW of capacity and 109 GWh of energy under two separate agreements. The original Kiefer I contract was extended in November 2014, for an additional 10 years. The current Kiefer II contract was extended in March 2016, for an additional 10 years.

**MM Yolo:** Provide 2.4 MW of capacity and 21 GWh of green energy under an agreement that expires in June 2026.

IBR Highwinds: Provide 50 MW of capacity and 127 GWh of energy under an agreement signed in July 2015 to extend the original contract for additional 10 years.

IBR Biomass (previously RockTenn): Provide 45 MW of capacity and 313 GWh of energy under an agreement that expires in August 2021.

Grady Wind: Provide 200 MW of capacity and 900 GWh of energy of energy under an agreement that expires in December 2043.

enXco - SolarShares<sup>®</sup>: Provide 0.5 MW of capacity and 2 GWh of energy to participants of SolarShares<sup>®</sup> program under an agreement which expires in August 2028.

Santa Cruz Landfill: Provide 1.5 MW of capacity and 12 GWh of energy under an agreement, which expires in September 2024.

Feed-in-Tariff Solar Projects: Provide 100 MW capacity and 213 GWh of energy delivered from all projects under a 20-year term ending in December 2030.

Van Warmerdam Dairy Biogas: Provide 0.5 MW of capacity and 2 GWh of energy under an agreement which expires in May 2033.

## Economic Outlook & Assumptions () SMUD



### (continued) Purchased Power (cont'd)

New Hope Dairy Biogas: Provide 0.4 MW of capacity and 2 GWh of energy under an agreement which expires in August 2033.

Patua (aka: Gradient) Geothermal: Provide 25 MW to 19 MW of capacity and 147 GWh of energy under an agreement, which expires in December 2033.

Loyalton Biomass: Provide 4.2 MW of capacity and 33 GWh of energy under an agreement, which expires in March 2023.

Van Steyn Dairy Biogas: Provide 0.12 MW of capacity and 1 GWh of energy under an agreement, which expires in June 2035.

Camp Far West: Provide 6.8 MW of capacity and 21 GWh of energy under an agreement which expires in July 2031.

Conergy SolarShares<sup>®</sup>: Provide 1.3 MW of capacity and 2 GWh of energy to participants of SolarShares<sup>®</sup> program, under an agreement that expires in August 2034.

Rancho Seco Solar: Rancho Seco I provides 11 MW of capacity and 23 GWh of energy under a 30-year agreement which expires in August 2036. Rancho Seco II will begin production on December 31, 2019 and will provide 157 MW of capacity and 337 GWh of energy through November 2039.

Sutter Energy Center: Provide 258 MW of capacity and 528 GWh of energy under a two-year contract with Calpine Energy Services. L.P. effective April 2019 from a natural gas-fired, combined-cycle.

CalEnergy: Provide 20 MW of capacity and 199 GWh of geothermal energy under an agreement expiring December 2039.

SB-859 Biomass: Provide 2.6 MW of capacity and 19 GWh of energy, per State legislation requiring utilities in California to procure power from biomass plants that burn forest fuels from high hazard areas as identified by Cal Fire. A biomass project of 2.7 MW of capacity is expected in January 2020.

## Economic Outlook & Assumptions



### (continued) Purchased Power

The balance of energy requirements to meet forecasted sales to customers will be met by short-term purchases of energy. Some of the long-term and short-term contracts will be delivered over SMUD's 528 MW share of the California-Oregon Transmission Project (Northwest) or under the South-of-Tesla transmission agreement with PG&E (Southwest & Southern California). These purchases are coordinated through SMUD's membership in the Western Systems Power Pool (WSPP), which facilitates sales and exchanges among its 30 member utilities, and through market trading. Lastly, another 5-year extension to the WAPA Custom Product ~300-MW sale/purchase contract with WAPA allows SMUD to import additional power from California Oregon Border through 2020.

# 2020 Budget Budget Summary

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#### **Overview**

The 2020 Budget totals \$1.8 billion. This represents an increase of \$96 million from the 2019 Budget. The 2020 Budget is a request to authorize new spending.

The 2020 SMUD Budget summarized on the following pages is a blueprint of planned operating, public goods and debt service expenses and capital expenditures for the fiscal year beginning January 1, 2020. Historical comparisons to the 2019 Budget adopted by the Board on December 20, 2018 are shown to put the 2020 Budget in perspective. A forecast of actual 2019 expenses is also shown.

The O&M and Capital Budgets are shown by Business Unit. SMUD Business Units correspond to business processes which deliver specific products and services to SMUD customers. The core business processes are represented by the Customer & Community Services, Energy Operations and Energy Delivery Business Units. Included within Energy Operations and Customer/Community are Public Good costs related to energy efficiency, low income assistance, renewable generation and research and development. These costs are shown separately because they are designated as Public Goods programs as determined by statute.

The Technology, Internal Services and Corporate Services Business Units provide services which enable the other business units to perform their work. The Enterprise Business Unit contains contingency and reserve estimates for the organization. The planning and budgeting philosophy is to more accurately plan and measure the total cost of SMUD business processes and set performance improvement targets for the processes and Business Units that will most efficiently accomplish strategic goals. This budgeting methodology also most efficiently allocates and plans resources from throughout SMUD to the Business Units and work processes.

Within each Business Unit budget, work processes are subdivided into business segments and individual business processes. Budget detail is provided at both levels. Business segments and processes enable each business unit to effectively plan and measure performance of its operations at a manageable level.



The budgeted costs shown under each core Business Unit include all the costs of performing the work planned for 2020. These include labor costs from departments throughout SMUD which perform work in the core business processes. Labor costs include employee benefits. Also included in the budget is a surcharge allocation of internal service costs such as transportation, facilities, technology, human resources, and security. Expenditures budgeted by Technology and Internal Services represent those process costs that are not allocated to the core business units, such as dedicated software implementations or enhancements that do not meet minimum SMUD criteria for capitalization. The Corporate Services budget includes insurance and risk management, cash and debt management, and corporate legal, reliability compliance, legislative, regulatory and government relations, planning and performance, executive management and Board of Directors; a portion of this budget is allocated to Capital and Public Good. The Enterprise budget includes contingency and reserve estimates for the organization.

The 2020 Budget includes the following major components:

**OPERATING EXPENSES (O&M)**: Expenses related to producing and acquiring energy, operating and maintaining the electrical delivery system, providing service to customers including public goods (energy efficiency, low income assistance, new renewable generation sources, and research and development of advanced technologies) programs, and corporate activities. Included within this category as a separate line item are commodity costs associated with energy supply. These costs include purchased power, fuel for energy production, and transmission wheeling costs.

Also included under Energy Delivery are fuel, operating and interest expense associated with CVFA's Carson Cogeneration plant, SCA's Procter & Gamble plant, SPA's Campbell Soup Cogeneration plant, SFA's Cosumnes Power Plant, NCGA No. 1 and NCEA pass-through gas costs. These expenses are shown in the SMUD Budget because SMUD will reimburse CVFA, SCA, SPA, SFA, NCGA No. 1 and NCEA for their costs under the terms of the Power and Gas Purchase Agreements. The detailed CVFA, SCA, SPA, SCA, SPA, SFA, NCGA No. 1 and NCEA Budgets are also in separate booklets and/or resolutions as they will be approved by the CVFA, SCA, SPA, SFA, NCGA No. 1 and NCEA Commissions.



**CAPITAL INVESTMENT:** Investment in additions and improvements to SMUD's property, plant and equipment. The Capital Investment budget includes all qualifying costs related to acquiring or constructing tangible and intangible assets which meet SMUD's capitalization guidelines - cost exceeding \$5,000 and an estimated service life greater than two years. SMUD follows Federal Energy Regulatory Commission (FERC) capitalization guidelines which dictate the inclusion of all direct costs (labor, employee benefits, materials, services and other) and a proportionate share of indirect costs (engineering and construction supervision and support, transportation, insurance, etc.) related to capital projects. Capital assets are depreciated on a straight-line basis over their estimated useful service life.

<u>ALLOCATED</u>: Costs in the two supporting business units, Technology and Internal Services, which enable the core business units to perform work. These costs are allocated to both O&M and capital costs, based on the quantity of labor hours. The aggregated allocated costs for Technology and Internal Services are presented in the budget documentation separately as information only; the actual costs are reflected in each of the Business Unit's budgets as the total cost of their work processes.

**DEBT SERVICE**: Interest expense on and principal repayments of SMUD's outstanding long-term debt and commercial paper notes, any revenues or payments on interest rate swaps, and trustee fees and debt issuance costs. Detail is provided in the Budget Summary.

## Budget Summary (continued)



## **Description of Cost Categories**

| Activity Type Labor            | SMUD employee labor planned to a business unit work process. Each Activity Type has a standard hourly charge-out rate that is based on work (non-leave) hours, average annual employee salaries, and includes benefits.  |
|--------------------------------|--|
| Materials & Equipment          | Materials and equipment either issued from inventory or purchased for a specific project or task.  |
| <b>Dues &amp; Publications</b> | Dues and publications and general membership requirements to accomplish work.  |
| General Expenditures           | All services and other non-material costs not covered by other specific cost categories including training, travel, rents, leases, licenses, fees, taxes, etc.   |
| Outside Services               | The cost of outside services contracts, consultants, and outside legal service.  |
| Advertising                    | The cost of advertising.   |
| Utilities & Postage            | The cost of telephones, other utilities and postage.   |
| Insurance                      | The cost of property and liability insurance.  |
| Rebates & Incentives           | The cost of energy efficiency rebates and incentives.  |
| Commodities                    | The cost of purchased power, wheeling, and fuel for SMUD and JPA generating plants.  |
| Surplus/Whsl Pwr Sales         | The revenue generated from selling energy which is not needed to meet SMUD retail load.  |
| LI/LS Rate Discount            | The discount given to customers who qualify for the Low Income or Medical Energy Discount (MED) rate subsidy.  |
| Cost Reductions/Reimb          | Reimbursements, cost-sharing grants, or pass-through amounts received from outside parties to reduce net costs.  |
| Cost Center Overhead           | A rate developed to recover the indirect costs of a Cost Center. Includes Activity Type labor for administration, supervision, training, and miscellaneous general expenses such as office supplies and travel. It is assessed per hour of Activity Type Labor planned directly to the work.   |
| Surcharges                     | Surcharge rates developed to recover 1) an allocation of internal service costs such as transportation and technology assessed per hour of Activity Type Labor planned directly to the work, 2) the costs of procuring outside service agreements (excluding outside legal service) and cost of procuring, storing, and handling materials and equipment assessed relative to the contract amount or whether material issued from inventory or purchased specifically for a project or task, 3) miscellaneous general and administrative SMUD expenses including insurance and risk management, cash management, debt management, and other assessed to capital and public good projects based on a flat percentage of overall SMUD activity type labor. |

## **O&M Budget Summary**



| Description<br>(\$000s)          | 2019<br>Forecast | 2019<br>Budget | 2020<br>Proposed | \$ Change<br>vs Budget | % Change<br>vs Budget |
|----------------------------------|------------------|----------------|------------------|------------------------|-----------------------|
| Customer/Community (excl. PubGd) | 121,214          | 122,010        | 125,251          | 3,241                  | 3%                    |
| Public Good                      | 44,373           | 41,261         | 35,811           | (5,450)                | -13%                  |
| Customer/Community               | 165,587          | 163,270        | 161,062          | (2,209)                | -1%                   |
| Energy Delivery (excl. JPA)      | 203,197          | 196,367        | 207,053          | 10,686                 | 5%                    |
| JPA Interest Expense             | 7,576            | 7,547          | 5,822            | (1,725)                | -23%                  |
| Energy Delivery (excl. JPA)      | 210,773          | 203,914        | 212,875          | 8,962                  | 4%                    |
| Commodity (net) [1]              | 432,449          | 448,091        | 474,182          | 26,091                 | 6%                    |
| Energy Operations (excl. PubGd)  | 88,428           | 84,909         | 109,269          | 24,360                 | 29%                   |
| Public Good                      | 15,718           | 20,029         | 24,287           | 4,258                  | 21%                   |
| Energy Operations                | 536,595          | 553,029        | 607,738          | 54,709                 | 10%                   |
| Internal Svcs                    | 20,635           | 12,893         | 15,201           | 2,308                  | 18%                   |
| Technology                       | 33,221           | 39,308         | 40,358           | 1,050                  | 3%                    |
| Corporate Services               | 69,843           | 63,322         | 78,761           | 15,438                 | 24%                   |
| Enterprise (excl. PubGd)         | 0                | 14,700         | 1,400            | (13,300)               | -90%                  |
| Public Good                      | 3,850            | 0              | 9,000            | 9,000                  | 100%                  |
| Enterprise                       | 3,850            | 14,700         | 10,400           | (4,300)                | -29%                  |
| Other Employee Benefits [2]      | (5,910)          | 30,634         | 31,651           | 1,017                  | 3%                    |
| O&M Budget Authorization         | \$1,034,594      | \$1,081,069    | \$1,158,045      | \$76,976               | 7%                    |
| Revenue                          | (107)            | (55)           | (55)             | 0                      | 0%                    |
| O&M Net                          | \$1,034,487      | \$1,081,014    | \$1,157,990      | \$76,976               | 7%                    |

[1] Net of surplus sales. The 2020 Budget assumes median water year.

[2] Other Post-Employment Benefits (OPEB) and Workers Compensation - These benefits are not allocated or included as a labor expense in the Business Units. 2019 forecast includes \$20M reimbursement from OPEB that was paid to PERS.

## **O&M Budget Summary** (continued)



| Cost Category<br>(\$000's)   | 2019<br>Forecast | 2019<br>Budget | 2020<br>Proposed | \$ Change<br>vs Budget | % Change<br>vs Budget |
|------------------------------|------------------|----------------|------------------|------------------------|-----------------------|
| ActivityType Labor           | \$225,130        | \$228,683      | \$244,249        | \$15,566               | 7%                    |
| Material & Equipment         | 10,282           | 11,057         | 10,204           | (854)                  | -8%                   |
| Dues & Publications          | 5,801            | 6,846          | 7,048            | 202                    | 3%                    |
| General Expenditures         | 31,358           | 31,994         | 34,791           | 2,797                  | 9%                    |
| Outside Services             | 139,531          | 128,243        | 145,698          | 17,455                 | 14%                   |
| Advertising                  | 3,641            | 3,707          | 3,665            | (42)                   | -1%                   |
| Utilities & Postage          | 8,239            | 7,243          | 7,364            | 121                    | 2%                    |
| Insurance                    | 19,296           | 18,931         | 22,477           | 3,546                  | 19%                   |
| Rebates & Incentives         | 26,867           | 27,452         | 29,097           | 1,645                  | 6%                    |
| Commodities                  | 488,912          | 562,737        | 598,062          | 35,325                 | 6%                    |
| Surplus/Whsl Pwr Sales       | (48,270)         | (72,620)       | (77,974)         | (5,355)                | 7%                    |
| Non-Labor Expenditures       | 685,657          | 725,592        | 780,432          | 54,840                 | 8%                    |
| Cost Reduction/Reimb         | (19,213)         | (54,783)       | (58,080)         | (3,297)                | 6%                    |
| Cost Center Overhead         | 56,193           | 51,746         | 56,817           | 5,071                  | 10%                   |
| Surcharges                   | 85,161           | 91,651         | 97,154           | 5,503                  | 6%                    |
| Expenditures Subtotal        | 1,032,928        | 1,042,889      | 1,120,572        | 77,683                 | 7%                    |
| JPA Interest                 | 7,576            | 7,547          | 5,822            | (1,725)                | -23%                  |
| Other Employee Benefits      | (5,910)          | 30,634         | 31,651           | 1,017                  | 3%                    |
| O&M Budget Authorization [1] | \$1,034,594      | \$1,081,069    | \$1,158,045      | \$76,976               | 7%                    |
| Revenue                      | (107)            | (55)           | (55)             | 0                      | 0%                    |
| O&M Net                      | \$1,034,487      | \$1,081,014    | \$1,157,990      | \$76,976               | 7%                    |

[1] O&M Budget Authorization includes Public Good. A summary of Public Good is provided on the following page.



## Public Good

| 2020 Summary<br>(\$000s)             | Customer/<br>Community | Energy<br>Operations | Enterprise/<br>Contingency | Total    |
|--------------------------------------|------------------------|----------------------|----------------------------|----------|
| Energy Efficiency                    | \$26,659               | \$10,476             | \$0                        | \$37,135 |
| Residential Assistance               | 8,627                  | 0                    | 5,000                      | 13,627   |
| Renewables                           | 525                    | 0                    | 4,000                      | 4,525    |
| Research & Development               | 0                      | 13,811               | 0                          | 13,811   |
| Public Good Budget Authorization [1] | \$35,811               | \$24,287             | \$9,000                    | \$69,098 |
| Rate Subsidy                         | 0                      | 0                    | 29,578                     | 29,578   |
| Total Public Good[2]                 | \$35,811               | \$24,287             | \$38,578                   | \$98,676 |

[1] Public Good expenditures are included in SMUD O&M summary (this table is information only)

[2] Specific information is provided within Customer/Community, Energy Operations and Enterprise Business Units.



The O&M Proposed Budget for 2020 totals \$1,158 million, which is \$77 million or 7 percent higher than the 2019 Budget.

<u>Commodities</u>: The Energy Operations Commodity budget for 2020 of \$474.2 million is \$26 million higher than the 2019 Budget. Details on the commodity assumptions in the 2020 Proposed Budget are found on pages 18-22.

#### **Business Unit O&M:**

Total Business Unit O&M, excluding Commodity and Public Good, is \$614.8 million, which is \$43.1 million higher than the 2019 Budget. The 2020 Proposed Budget includes new spending for our Integrated Resource Plan, which includes increases in Transportation Electrification programs. Transportation Electrification is a critical part of our newly-adopted IRP and an important part of our strategy to continue to provide a leadership role in the region's transformation to a low-carbon future. The budget also funds the customer outreach and education for these items. The O&M budget also includes investment in the California Mobility Center, a collaboration with regional leaders, policymakers, and venture capitalists to embark on a road to mobility innovation. The 2020 Budget funds continued increased costs for wildfire mitigation efforts which include higher insurance coverage and vegetation management work.

More detailed and specific information is provided within each Business Unit's documentation.



**Public Good:** Total Public Good is \$98.7 million, an increase of \$4.8 million, after inclusion of rate subsidies. The Public Good Budget is \$69.1 million. The difference is because the Budget represents the cash disbursement portion of the program that requires Board authorization.

By December 2020, the number of subsidized customers is expected to be approximately 73,659. The total cost of the EAPR subsidy is budgeted at \$27.8 million in 2020, a decrease of \$2.9 million from 2019, and the subsidy for customers using medical equipment decreased by \$0.1 million to \$1.8 million. Total subsidies are \$29.6 million.

Energy efficiency spending increased \$2.8 million to reflect new building electrification work and pilots and programs for low income customers. Incorporation of savings from codes and standards was included as a component of the energy efficiency portfolio to match standard industry practice going forward. The energy efficiency budget remains in line with the goal of achieving savings of 1.5% of average annual retail energy sales.

More detailed and specific information is provided within Customer, Energy Operations and Enterprise Business Unit documentation.

Other Employee Benefits: SMUD's Other Employee Benefits, is \$31.7 million, an increase of \$1 million. This item consists of the O&M portion (unfunded liability) of Other Post-Employment Benefits (OPEB) expense of \$28 million and \$3.7 million of workers compensation.

The total OPEB cost of \$37.5 million is the sum of the O&M portion of \$28 million and the current year contribution of \$9.5 million. OPEB are costs related to other post employment benefits other than pension (primarily health and dental insurance), for SMUD current and future retirees.



| Description<br>(\$000s)             | F  | 2019<br>orecast | I  | 2019<br>Budget | P  | 2020<br>roposed | -  | Change<br>Budget | % Change<br>vs Budget |
|-------------------------------------|----|-----------------|----|----------------|----|-----------------|----|------------------|-----------------------|
| Customer/Community                  | \$ | 4,335           | \$ | 4,518          | \$ | 4,406           | \$ | (112)            | -2%                   |
| Energy Delivery                     |    | 202,492         |    | 213,329        |    | 261,380         |    | 48,051           | 23%                   |
| Energy Delivery Resource Projects   |    | 54,126          |    | 68,559         |    | 36,845          |    | (31,714)         | -46%                  |
| Energy Operations                   |    | 7,071           |    | 5,308          |    | 5,899           |    | 591              | 11%                   |
| Energy Operations Resource Projects |    | 1,551           |    | 6,072          |    | 3,250           |    | (2,822)          | -46%                  |
| Internal Services                   |    | 61,643          |    | 54,143         |    | 27,531          |    | (26,612)         | -49%                  |
| Technology                          |    | 37,828          |    | 42,227         |    | 36,100          |    | (6,128)          | -15%                  |
| Corporate                           |    | 0               |    | 0              |    | 6,298           |    | 6,298            | 100%                  |
| Contingency & Reserve               |    | 33,600          |    | 49,700         |    | 74,900          |    | 25,200           | 51%                   |
| Capital Budget Authorization        | \$ | 402,646         | \$ | 443,856        | \$ | 456,610         | \$ | 12,753           | 3%                    |
| Revenue                             |    | (318)           |    | (705)          |    | (705)           |    | 0                | 0%                    |
| Capital Net                         | \$ | 402,328         | \$ | 443,151        | \$ | 455,904         | \$ | 12,753           | 3%                    |

## Capital Budget Summary (continued)



| Cost Category<br>(\$000's)   | 2019<br>Forecast | 2019<br>Budget | 2020<br>Proposed |          | % Change<br>vs Budget |
|------------------------------|------------------|----------------|------------------|----------|-----------------------|
| ActivityType Labor           | \$62,877         | \$65,192       | \$65,974         | \$782    | 1%                    |
| Material & Equipment         | 63,077           | 66,026         | 69,005           | 2,979    | 5%                    |
| Dues & Publications          | 195              | 211            | 201              | (10)     | -5%                   |
| General Expenses             | 40,735           | 68,978         | 84,964           | 15,986   | 23%                   |
| Outside Services             | 208,893          | 213,442        | 194,438          | (19,004) | -9%                   |
| Advertising                  | 6                | 0              | 0                | 0        | 0%                    |
| Utilities & Postage          | 28               | 8              | 6                | (2)      | -27%                  |
| Insurance                    | 543              | 645            | 656              | 11       | 2%                    |
| Non-Labor Expenses           | \$313,477        | \$349,309      | \$349,269        | (\$40)   | 0%                    |
| Cost Reduction/Reimb         | (\$28,290)       | (\$27,153)     | (\$15,258)       | \$11,895 | 44%                   |
| Expenditures                 | \$348,065        | \$387,348      | \$399,984        | \$12,637 | 3%                    |
| Cost Center Overhead         | 19,020           | 19,120         | 18,595           | (525)    | -3%                   |
| Surcharges                   | 35,561           | 37,388         | 38,030           | 642      | 2%                    |
| Capital Budget Authorization | \$402,646        | \$443,856      | \$456,610        | \$12,753 | 3%                    |
| Revenue                      | (318)            | (705)          | (705)            | 0        | 0%                    |
| Capital Net                  | \$402,328        | \$443,151      | \$455,904        | 12,753   | 3%                    |



| Project Summary<br>(\$000s)           | 2020<br>[1] | 2021-22<br>[2]     |
|---------------------------------------|-------------|--------------------|
| Meters                                | 4,40        | 9,115              |
| Customer/Community                    | \$ 4,40     | 9,115              |
| Cable Replacement                     | 21,0        | 46,341             |
| Decommissioning                       | 5,64        | 49 11,733          |
| Gas Pipeline                          | 5           | 70 2,377           |
| Hydro License                         | 9,58        | 36 26,931          |
| Hydro Other                           | 6,32        | 9,294              |
| Hydro Production                      | 24,39       | 91 35,003          |
| Line Projects                         | 47,8        | 70 107,706         |
| NewServices/Local Agency              | 15,8        | 36 27,921          |
| NewSubstation                         | 37,92       | 25 25,153          |
| Other Energy Delivery                 | 1,1         | 19 1,260           |
| Pole Replacement                      | 17,80       | 63 38 <i>,</i> 578 |
| Power Generation                      | 1,93        | 37 -               |
| Renevable Production                  | 18,7        | 31 101,114         |
| Substation Lifecycle and Improvements | 35,83       | 79 48,609          |
| Thermal                               | -           | 6,900              |
| Thermal Production                    | 2,3         | 14 1,005           |
| Transmission                          | 52,00       | 67 34,091          |
| Energy Delivery                       | \$ 299,07   | 78 \$ 524,016      |



| Project Summary                 | 2020          | 2021-22       |
|---------------------------------|---------------|---------------|
| (\$000s)                        | [1]           | [2]           |
| Energy Operations Technology    | 1,434         | 735           |
| Gas                             | 3,250         | 6,500         |
| Interconnection                 | 1,780         | 3,515         |
| Substation Land & Easement      | 685           | 1,697         |
| Energy Operations               | \$<br>7,149   | \$<br>12,447  |
| Environmental                   | 2,770         | 9,138         |
| Facilities                      | 16,099        | 23,396        |
| Vehicle Replacement             | 8,662         | 17,374        |
| Internal Services               | \$<br>27,531  | \$<br>49,909  |
| Customer Technology             | 132           | 3,774         |
| DMS                             | 6,771         | 10,880        |
| Grid Technology                 | 9,069         | 5,234         |
| Information Security            | 272           | 1,625         |
| IT Lifecycle and Infrastructure | 5,055         | 10,872        |
| Other Technology                | 45            | -             |
| Shared Services Technology      | 9,302         | 58,108        |
| Telecom                         | 6,601         | 4,691         |
| Technology                      | \$<br>37,247  | \$<br>95,183  |
| Corporate Contingency/Reserve   | 81,198        | 99,660        |
| Capital Budget Authorization    | \$<br>456,610 | \$<br>790,331 |

[1] Requested Board Authorization amount for 2020 spending.

[2] Provided for Board information as an estimate of the amount needed to complete projects started in 2020 or earlier.

## Capital Budget Summary (continued)



SMUD has historically had two categories of capital for budget authorization, Annual and Reserve/Contingency Capital. Annual Capital is for projects with completion dates or specific milestone dates within the current budget year and as such budget dollars are requested during the annual budget cycle. Projects that were approved in prior years but have not been completed are resubmitted to the Board annually for approval to continue the project. Reserve/Contingency Capital projects will be completed if load growth or customer growth is greater than expected, if there are unexpected expenditures, or if there are projects in which the planning phase will be completed and work will begin in 2020. Beginning in 2020, Reserve Capital is planned within the Enterprise Business Unit.

<u>Capital</u>: The proposed 2020 capital investment budget is \$456.6 million, for planned investment in generation, transmission, distribution, buildings, vehicles, technology and other assets critical to meeting the energy needs of our customers. Proposed ongoing capital expenditures go through a rigorous evaluation and prioritization process, based on value and risk, to ensure we fund those that have the highest contribution to the Board's strategic directives. This total includes the Reserve Capital Budget of \$15.0 million for unexpected end-of-year project carryover and capital contingency.

Major capital expenditures planned in 2020 include work for Station E and Station G, starting development work for additions to our wind farm with Solano Phase IV, and the White Rock Tunnel Bolt Replacement. Ongoing capital planned in 2020 includes cable and pole replacement programs, installing new meters, and new fleet purchases. Technology investments included in the 2020 Proposed Budget are to complete the Advanced Distribution Management System (ADMS), ongoing work for Workforce Optimization, and improvements to HR systems and network communications systems.

Contingency and Reserve in the 2020 Proposed Budget totals \$74.9 million. This contingency/reserve money is planned for the following potential items: reserve for carry-over and unexpected capital projects, system enhancement projects, land purchases, inventory/spare parts, and the purchase of Chili Bar from PG&E.

More detailed and specific information is provided within each Business Unit's Documentation.

## **Allocated Budget Summary**



| Description<br>(\$000s)     | 2019<br>Forecast | 2019<br>Budget | 2020<br>Proposed | \$ Change<br>vs Budget | % Change<br>vs Budget |
|-----------------------------|------------------|----------------|------------------|------------------------|-----------------------|
| Supply Chain                | \$ 15,851        | \$ 14,967      | \$ 16,548        | \$ 1,581               | 11%                   |
| Fleet & Fuel                | 8,670            | 9,398          | 8,995            | (403)                  | -4%                   |
| Other Internal Services [1] | 41,599           | 46,023         | 44,899           | (1,125)                | -2%                   |
| Internal Services           | 66,120           | 70,388         | 70,441           | 54                     | 0%                    |
| Technology                  | 56,336           | 59,800         | 65,620           | 5,820                  | 10%                   |
| Total Allocated Budget [2]  | \$122,456        | \$130,188      | \$136,061        | \$ 5,873               | 5%                    |

[1] Other Internal Services: Health & Safety, Organizational Development, Inclusion, Fire Protection, Security, Postal & Print Shop, Graphics, Human Resources, Labor Relations, Facilities and Fleet (excluding fuel)

[2] Allocated Budget expenditures are included in all SMUD Business Unit's O&M and Capital summaries (this table is information only)



| Cost Category<br>(\$000's) | 2019<br>Forecast | 2019<br>Budget | 2020<br>Proposed | \$ Change<br>vs Budget | \$ Change<br>vs Budget |
|----------------------------|------------------|----------------|------------------|------------------------|------------------------|
| ActivityType Labor         | \$56,691         | \$58,729       | \$63,974         | \$5,245                | 9%                     |
| Material & Equipment       | 14,094           | 13,296         | 12,831           | (465)                  | -3%                    |
| Dues & Publications        | 10               | 38             | 90               | 52                     | 135%                   |
| General Expenses           | 1,302            | 1,305          | 1,226            | (79)                   | -6%                    |
| Outside Services           | 28,861           | 33,394         | 33,871           | 477                    | 1%                     |
| Advertising                | 128              | 153            | 153              | 0                      | 0%                     |
| Utilities & Postage        | 1,679            | 1,752          | 1,793            | 42                     | 2%                     |
| Insurance                  | 215              | 420            | 294              | (126)                  | -30%                   |
| Non-Labor Expenses         | \$46,289         | \$50,358       | \$50,259         | (\$99)                 | 0%                     |
| Cost Reduction/Reimb       | (\$150)          | (\$86)         | (\$90)           | (\$5)                  | 5%                     |
| Expenditures               | 102,830          | 109,002        | 114,143          | 5,141                  | 5%                     |
| Cost Center Overhead       | 14,491           | 15,814         | 16,175           | 361                    | 2%                     |
| Surcharges                 | 5,136            | 5,372          | 5,743            | 371                    | 7%                     |
| Total Allocated Budget [1] | \$122,456        | \$130,188      | \$136,061        | \$5,873                | 5%                     |

## Allocated Budget Summary (continued)



The Allocated Proposed Budget for 2020 totals \$136.1 million, which is \$5.9 million higher than the 2019 Budget. This is shown as **information only** as 100% of these allocated expenditures are included in the budget dollars of all SMUD O&M and Capital described in this documentation. Internal Services and Technology costs are allocated to business units based on the quantity of labor hours.

More specific and detailed information is provided within Internal & Technology Business Unit Documentation.

## **Position Count Summary**



| Executive Hierarchy                      | 2019<br>Full-time | 2019<br>Limited<br>Term | 2019<br>Part-time | 2019<br>Approved<br>Positions | 2020<br>Full-time | 2020<br>Limited<br>Term | 2020<br>Part-time | 2020<br>Positions<br>Planned | Increase/<br>Decrease |
|--|-------------------|-------------------------|-------------------|-------------------------------|-------------------|-------------------------|-------------------|------------------------------|-----------------------|
| CEO & General Manager                    | 34                | 21                      | 9                 | 64                            | 35                | 27                      | 8                 | 70                           | 6                     |
| Chief Legal Officer                      | 41                | 2                       | 4                 | 47                            | 40                | 2                       | 4                 | 46                           | (1)                   |
| Chief Financial Officer                  | 90                | 2                       | 5                 | 97                            | 88                | 7                       | 6                 | 101                          | 4                     |
| Chief Energy Delivery Officer            | 697               | 19                      | 14                | 730                           | 694               | 27                      | 13                | 734                          | 4                     |
| Chief Grid Strategy & Operations Officer | 287               | 3                       | 23                | 313                           | 289               | 3                       | 23                | 315                          | 2                     |
| Chief Customer Officer                   | 411               | 22                      | 107               | 540                           | 412               | 20                      | 105               | 537                          | (3)                   |
| Chief Workforce Officer                  | 364               | 14                      | 10                | 388                           | 367               | 10                      | 22                | 399                          | 11                    |
| Chief Information Officer                | 244               | 13                      | 43                | 300                           | 262               | 15                      | 49                | 326                          | 26                    |
| Full-time                                |                   |                         |                   | 2,168                         |                   |                         |                   | 2,187                        | 19                    |
| Limited Term                             |                   |                         |                   | 96                            |                   |                         |                   | 111                          | 15                    |
| Part-time                                |                   |                         |                   | 215                           |                   |                         |                   | 230                          | 15                    |
| SMUD Total                               | 2,168             | 96                      | 215               | 2,479                         | 2,187             | 111                     | 230               | 2,528                        | 49                    |

**Position Count:** The full-time count is identified in the Board Resolution.

## **Labor Cost Summary**



| Executive Hierarchy<br>(\$000)           | 2019<br>Forecast      | 2019<br>Budget        | 2020<br>Proposed      | \$ Change<br>vs Budget | % Change<br>vs Budget |
|--|-----------------------|-----------------------|-----------------------|------------------------|-----------------------|
| CEO & General Manager                    | \$9,233               | \$8,543               | \$9,825               | \$1,282                | 15%                   |
| Chief Legal Officer                      | 6,020                 | 6,160                 | 6,036                 | (\$123)                | -2%                   |
| Chief Financial Officer                  | 11,302                | 11,308                | 11,482                | \$174                  | 2%                    |
| Chief Energy Delivery Officer            | 97,067                | 95,917                | 102,698               | \$6,781                | 7%                    |
| Chief Grid Strategy & Operations Officer | 42,012                | 42,565                | 44,595                | \$2,030                | 5%                    |
| Chief Customer Officer                   | 44,529                | 44,935                | 47,729                | \$2,794                | 6%                    |
| Chief Workforce Officer                  | 38,934                | 39,971                | 40,726                | \$755                  | 2%                    |
| Chief Information Officer                | 34,227                | 34,511                | 39,617                | \$5,106                | 15%                   |
| Salaries & Wages*<br>Overtime            | \$263,151<br>\$20,175 | \$267,104<br>\$16,807 | \$284,038<br>\$18,671 | \$16,934<br>\$1,864    | 6.3%<br>11.1%         |
| SMUD TOTAL                               | \$283,326             | \$283,911             | \$302,709             | \$18,798               | 6.6%                  |

\*Salaries & Wages includes paid leave ----- 2019 Budget not adjusted for any organizational realignment

**Labor Salaries**: The labor summary reflects the cost of wages for SMUD employees. The budget for labor and associated benefit costs is included on the previous budget summary pages.

# 2020 Budget Debt Service

Powering forward. Together.





The following schedules show the summary and details of the 2020 Proposed Budget for Debt Service. SMUD issues Electric Revenue Bonds and Commercial Paper Notes to finance long-lived capital assets. The Debt Service Budget includes accrued interest expense on outstanding Electric Revenue Bonds and Commercial Paper Notes, net of any swap revenues tied to debt issues, scheduled principal repayments of Bonds and Commercial Paper, trustee fees associated with administration of debt service payments, and interest expense and issuance costs associated with planned new debt issues.

Revenue Bond Interest totals \$98.4 million in the 2020 Budget, an increase of \$5.9 million from 2019.

<u>Commercial Paper Interest</u> totals \$4.8 million in the 2020 Budget, a decrease of \$5.8 million from 2019. Short-term interest rates assumed for 2020 are slightly higher than those assumed for 2019; The budget assumes an average commercial paper balance of \$150 million.

<u>Scheduled Principal Repayments</u> of revenue bonds and commercial paper notes total \$92.9 million in 2020, a \$5.5 million increase from 2019.

Fees/Bond Issuance Costs of \$1.8 million are included for new 2020 bond issuances and related fees.

## Debt Service Budget (continued)



| Debt Service<br>(\$000s)      | 2019<br>Forecast | 2019<br>Budget | 2020<br>Proposed | <pre>\$ Change vs Budget</pre> | % Change<br>vs Budget |
|-------------------------------|------------------|----------------|------------------|--------------------------------|-----------------------|
| Interest Expense <sup>1</sup> | \$97,705         | \$103,208      | \$103,245        | \$37                           | 0%                    |
| Principal Repayments          | 87,425           | 87,425         | 92,920           | 5,495                          | 6%                    |
| Fees/Bond Issuance Cost       | 1,613            | 1,763          | 1,836            | 73                             | 4%                    |
| Total Debt Service            | \$186,743        | \$192,397      | \$198,001        | \$5,604                        | 3%                    |
| Allocated to JPAs             | (6,314)          | (6,314)        | (6,126)          | 188                            | -3%                   |
| NET DEBT SERVICE              | \$180,429        | \$186,083      | \$191,875        | \$5,792                        | 3%                    |

[1] Build America Bonds are shown gross of the rebate of \$9.2 million expected in 2019. The budget authorization is requested gross of the rebate. Includes net debt related swap payments and interest on long-term, variable rate, and subordinated debt. Assumes an interest rate of 3.15% (incl. all related fees & swaps) on avg. commercial paper balance of \$150 million.

The Debt Service component of the 2020 Proposed Budget totals \$198 million, an increase of \$5.6 million or 3% percent over 2019. The increase is due to a normal fluctuation in debt service schedules.

Interest expense represents accrued interest on revenue bonds and commercial paper, net of any related swap revenue. The credit for debt service charged to the JPAs represents the portion of the interest expense on the District's investments in the PG&E Line 301/400 pipeline, the local gas pipeline (including Cosumnes extension) and the Rosa natural gas reserves which is allocated to the cogeneration plants for fuel delivery and included in the SMUD and JPA budgets under fuel commodity. Principal repayments represent scheduled repayment of revenue bonds and commercial paper notes.

## Debt Service Budget (continued)



|                | SUMMMARY OF DEBT SERVICE ON EXISTING SMUD BOND ISSUES (\$000'S) |  |                        |                           |   |                          |  |  |  |  |
|----------------|---|--|------------------------|---------------------------|---|--------------------------|--|--|--|--|
| Date<br>Issued | Issue   | 1/1/2020<br>Issue Principal Interest Rate<br>Balance |                        | Final<br>Maturity<br>Date | 2020<br>Scheduled<br>Principal<br>Payment | 2020 Interest<br>Expense |  |  |  |  |
|                | Electric Revenue Bonds  |  |                        |                           |   |                          |  |  |  |  |
| Jun-97         | Series K <sup>1</sup>   | 88,470   | 5.25% to 5.90%         | 2024                      | 15,850                                    | 679                      |  |  |  |  |
| May-09         | Series V <sup>2</sup>   | 200,000  | 6.322% (4.11% net)     | 2036                      | -   | 12,644                   |  |  |  |  |
| Jul-10         | Series W <sup>3</sup>   | 250,000  | 6.156% (4.00% net)     | 2036                      | -   | 15,390                   |  |  |  |  |
| Sep-11         | Series X (Refunding)  | 188,440  | 1.50% to 5.00%         | 2036                      | 31,670                                    | 8,748                    |  |  |  |  |
| Jan-12         | Series Y (Refunding)  | 175,065  | 3.00% to 5.00%         | 2033                      | 5,535                                     | 8,427                    |  |  |  |  |
| May-13         | Series A  | 132,020  | 3.75% and 5.00%        | 2041                      | -   | 6,592                    |  |  |  |  |
| May-13         | Series B (Refunding)  | 90,635   | 3.00% to 5.00%         | 2033                      | 5,730                                     | 4,296                    |  |  |  |  |
| Jul-16         | Series D (Refunding)  | 139,805  | 5.00%                  | 2028                      | 6,445                                     | 6,735                    |  |  |  |  |
| Dec-17         | Series E (Refunding)  | 170,755  | 3.00% to 5.00%         | 2028                      | 18,195                                    | 8,194                    |  |  |  |  |
| Aug-18         | Series F (Refunding)  | 150,975  | 5.00%                  | 2028                      | 9,495                                     | 7,369                    |  |  |  |  |
| Apr-19         | Series G  | 191,875  | 5.00%                  | 2041                      | -   | 9,352                    |  |  |  |  |
|                | Subtotal  | 1,778,040  |                        |                           | 92,920                                    | 88,426                   |  |  |  |  |
|                | Subordinated Electric Revenue Bonds                             |  |                        |                           |   |                          |  |  |  |  |
| Jul-19         | Series A  | 100,000  | 5%                     | 2049                      | -   | 5,000                    |  |  |  |  |
| Jul-19         | Series B  | 100,000  | 5%                     | 2049                      | -   | 5,000                    |  |  |  |  |
|                | Subtotal  | 200,000  |                        |                           | -   | 10,000                   |  |  |  |  |
|                | Total Outstanding Bonds   | 1,978,040  | Principal & Interest F | Payments                  | 92,920                                    | 98,426                   |  |  |  |  |
|                | Total Debt Service  |  |                        |                           | 92,920                                    | 98,426                   |  |  |  |  |

1) Swapped to a variable rate for the life of the debt, interest expense net of swap payment. Interest expense without swap would be \$4,280,125.

2) Interest expense gross of federal government Build America Bond rebate of \$4,155,451.

3) Interest expense gross of federal government Build America Bond rebate of \$5,057,924.