



# SMUD overview



# 1.5 million

Service Area Population

Record Peak Demand

# 3,299

megawatts on

JULY 2006

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					



Employees  
(year end)

# 2,179

Authorized Budget

# \$1.8 billion

Customer Contracts  
(year end)

# 644,723

Credit Rating



**AA**

Standard & Poor's

**AA**

Fitch

**AA3**

Moody's



# SMUD overview

## SMUD Service Area and Board Member Wards



The Sacramento Municipal Utility District generates, transmits, and distributes electricity to a 900-square-mile territory that includes California's capital city, Sacramento County, and small slices of Placer and Yolo counties. As a community-owned, not-for-profit, SMUD is governed by a seven-member Board of Directors elected by the voters to staggered four-year terms. The SMUD Board of Directors determines policy and appoints the chief executive officer/general manager, who is responsible for SMUD's day-to-day operations.

## SMUD BOARD OF DIRECTORS

Brandon Rose  
**Ward 1**

Nancy Bui-Thompson  
**Ward 2**  
*Vice President 2020, President 2021*

Gregg Fishman  
**Ward 3**

Rosanna Herber  
**Ward 4**

Rob Kerth  
**Ward 5**  
*President 2020*

Dave Tamayo  
**Ward 6**

Heidi Sanborn  
**Ward 7**

## EXECUTIVE MANAGEMENT

Executive Management  
Paul Lau  
*CEO & General Manager*

Laura Lewis  
*Chief Legal Officer*

Jennifer Davidson  
*Chief Financial Officer*

Gary King  
*Chief Workforce Officer*

Scott Martin and Lora Anguay  
*Interim Chief Grid & Strategy Operations Officer*

Frankie McDermott  
*Chief Energy Delivery Officer*

Stephen Clemons  
*Chief Information Officer*

Brandy Bolden and Tracy Carlson  
*Interim Chief Customer Officer*



# The year in review

While COVID-19 cast a long shadow over 2020, SMUD managed to compile a various and extensive list of accomplishments. What follows is a month-by-month sample of 2020 highlights:

## January

### Energy Pathways program provides training for green jobs

The new year was just a few days old when SMUD announced the creation of the Energy Pathways program, a collaborative workforce development effort designed to increase the use of solar power in underserved communities and provide good-paying jobs.

Teaming up with SMUD in the Energy Pathways program were the Sacramento Promise Zone Collaboration, Sacramento Black Chamber of Commerce, Sacramento Urban League, Sacramento Kings, Baker Energy Team, UC Davis Health, Sacramento Housing and Redevelopment Agency and Spotlight Solar.

The program consisted of 200 students (ages 18 to 30) participating in hands-on training and a five-week classroom course to learn the technical skills needed to work in clean energy jobs.

A year after enrolling in the program, students began installing solar tree structures at the Simmons Community Center and the Greater Sacramento Urban League to provide clean, renewable power.

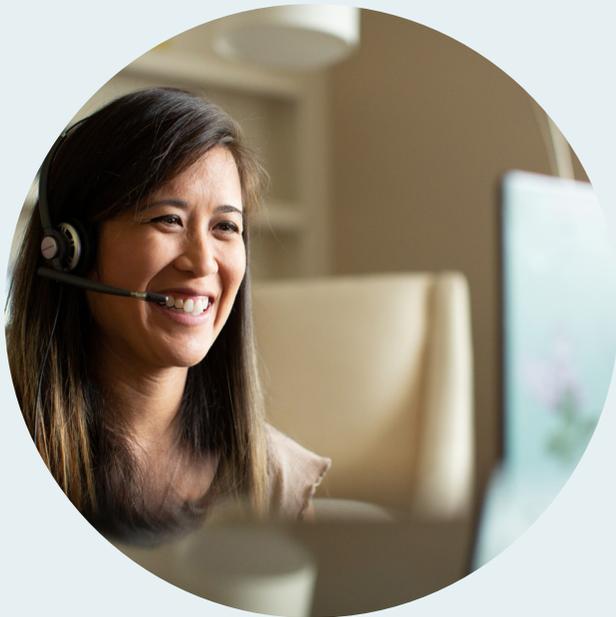


## February

### CEC approves Neighborhood SolarShares®

The California Energy Commission approved SMUD's application to use its Neighborhood Solar Shares program as an option for developers to meet the California solar mandate. SMUD's program gives new home developers the ability to deliver the environmental benefits of solar energy without having to install panels on every rooftop.

All solar resources allocated to the community solar program will come from within SMUD's service territory and won't exceed 20 megawatts. SMUD agreed to collaborate with builders so they can offer a choice of rooftop solar or community solar at the point of purchase.

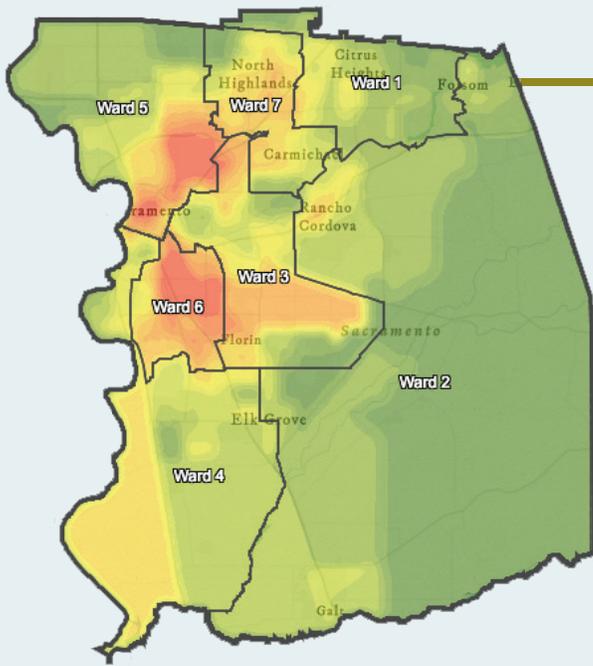


## March

### Pandemic hits Sacramento

All within weeks of the first Sacramento resident testing positive for COVID-19 in late February, SMUD implemented safety measures that included restricting all employee travel, canceling the March Board of Directors meeting, closing its buildings to the public and shifting about 1,400 of its employees to remote work from home.





## April

### Mapping out the areas that need the most help

SMUD unveiled a new mapping tool to identify the Sacramento-area neighborhoods most in need of improved education, health care, employment, transportation, tree canopies and cleaner air.

The Sustainable Communities Resource Priorities Needs Map enables better resource allocation as SMUD and other community partners work to reduce economic disparity in Sacramento County. The map proved to be particularly timely given the disproportionate impact the coronavirus pandemic has had on under-resourced communities.

## May

### SMUD hires goats to help reduce fire risk

SMUD enlisted the help of nearly 400 goats to lessen the fire danger along transmission corridors in Sacramento County.

As part of SMUD's vegetation management effort, the goats moved around SMUD's service territory to reduce vegetation, create fuel breaks and mitigate potential fire risk. Goats have four stomachs, which makes it easy for them to consume and digest roughage, and they're able to devour brush in hard-to-reach terrain.

The goats were guarded by a pair of Anatolian Shepherds named Heidi and Ricki.

To learn more about SMUD's wildfire mitigation plan, visit [smud.org/WildfireSafety](https://smud.org/WildfireSafety).





**June**

**TOD rates help customers save while benefiting environment**

In a June presentation to the Board of Directors, SMUD staff detailed the ways in which SMUD’s Time-of-Day (5-8 p.m. Peak) Rate is saving customers money and helping the environment.

The 535,000 eligible customers participating in Time-of-Day (TOD) rates resulted in a shift and reduction of electricity usage in all time periods and reduced carbon emissions by 12,800 tonnes. That’s the equivalent of removing 4,200 cars from the road for a full year. TOD rates also saved customers an average of \$3 per month on their summer bills. These results were better than was originally anticipated when TOD rates were implemented to support SMUD’s carbon reduction goals.

The results of the first TOD summer meant that SMUD customers are reducing and shifting their energy use to time periods when electricity prices are lower and renewable resources such as solar are abundant.



**July**

**SMUD Board issues Climate Emergency Declaration**

The SMUD Board in July issued an emergency declaration committing SMUD to delivering carbon-neutral electricity by 2030.

In upping the ante from the resource plan submitted to the California Energy Commission in 2019, the Climate Emergency Declaration recognized the immediate risks of air pollution and climate change to the Sacramento region and the need for SMUD to move even faster.



## August

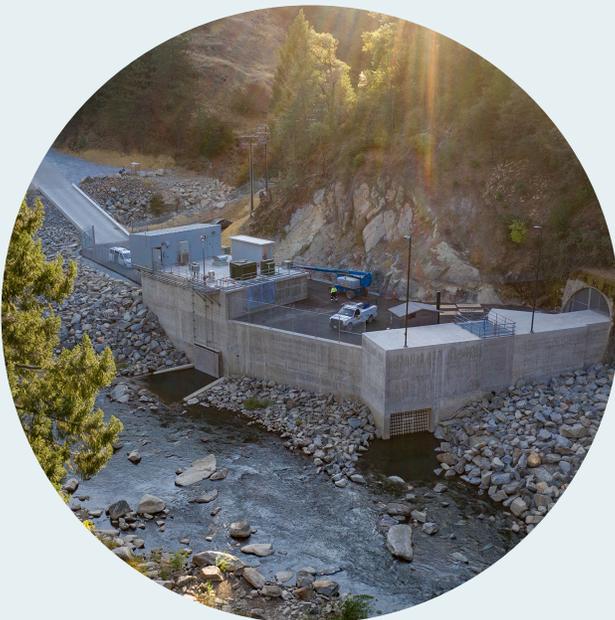
### Heat wave affects rest of state harder than Sacramento

As if Californians didn't have enough on our plate with COVID-19, a searing August heat wave strained the state's electricity supply.

High temperatures across the west drove electricity demand to near all-time highs up and down the state. With demand exceeding supply, the California Independent System Operator (California ISO) called for Level 3 emergencies that resulted in rolling blackouts across much of the state - but not in SMUD's service territory.

SMUD is a member of the Balancing Authority of Northern California, or BANC, an independent balancing authority within the western power grid. As a result, the rolling blackouts did not directly affect SMUD. While SMUD experienced some localized outages, none were due to energy shortages or blackouts.

While SMUD is not required to participate in California ISO-ordered outages, we do participate in California ISO's Energy Imbalance Market. From Aug. 14 through Aug. 18, SMUD sold about 6,800 megawatt hours - enough electricity to power about 68,000 homes - back into the California ISO to help alleviate the statewide shortage.



## September

### South Fork Powerhouse begins operations

SMUD's South Fork Powerhouse began operations in September, generating hydroelectricity on the American River near Camino.

Since the 2.7-megawatt powerhouse is considered a "small hydro" project (less than 30 megawatts), the electricity it produces counts toward the state Renewable Portfolio Standard. The project received \$1.5 million in funding from the U.S. Department of Energy.

The South Fork Powerhouse project includes a boating flow release facility, enhancing whitewater flows on a nine-mile stretch downstream from Slab Creek Reservoir. The flow enhancements are required in the current 50-year Federal Energy Regulatory Commission license issued to SMUD to operate its Upper American River Project in El Dorado County.

## October

### Lau replaces Orchard as SMUD CEO/General Manager

Paul Lau succeeded Arlen Orchard as SMUD's CEO and general manager, taking the reins on Oct. 3. Lau joined SMUD as a college intern in 1982 and was hired as an assistant electrical engineer after graduating from Sacramento State in 1984.

Prior to being named SMUD's CEO by the Board of Directors, Lau served as chief grid strategy operations officer, overseeing SMUD's power supply and distributed energy strategies. Lau had been a member of SMUD's executive leadership team since 2008.

Orchard had planned to retire earlier in the year but delayed his exit to help SMUD get through the COVID-19 pandemic.



## November

### SMUD assists COVID-impacted nonprofits

With nonprofits struggling during COVID-19, SMUD moved its first round of Shine awards to November, awarding \$200,000 to 10 local organizations that could put the funding to immediate use in the community.

Shine funding is awarded to projects that address neighborhood revitalization, STEM (science, technology, engineering and mathematics) education, environmental sustainability and energy efficiency, and workforce development.

The second round of Shine funding for 2020-21 was issued in February 2021.

## December

### SMUD recognized for environmental leadership

SMUD was recognized for its leadership in corporate sustainability by Carbon Disclosure Project (CDP), a global environmental nonprofit. SMUD received a place on CDP's "A List" for tackling climate change and for our specific actions to cut emissions, mitigate climate risks and develop a low-carbon economy.

CDP, which is based out of London, runs the global disclosure system for investors, companies, cities, states and regions to manage their environmental impacts. More than 9,600 companies disclosed environmental data through CDP in 2020. Only 270 of those companies made the A list, putting SMUD in the top three percent of respondents.