

a forum to clear the air

June 26, 2024

Powering forward
Together.



Agenda

- **Meet our presenters**
- **Road to zero: Join the Charge!**
- **Progress toward our 2030 goals**
- **Maximizing customer & community benefits**
- **Q & A**



Rhonda Staley-Brooks
Director, Community
Relations Outreach &
Support



Joyce Hribar
Manager, Zero Carbon
Project Management Office

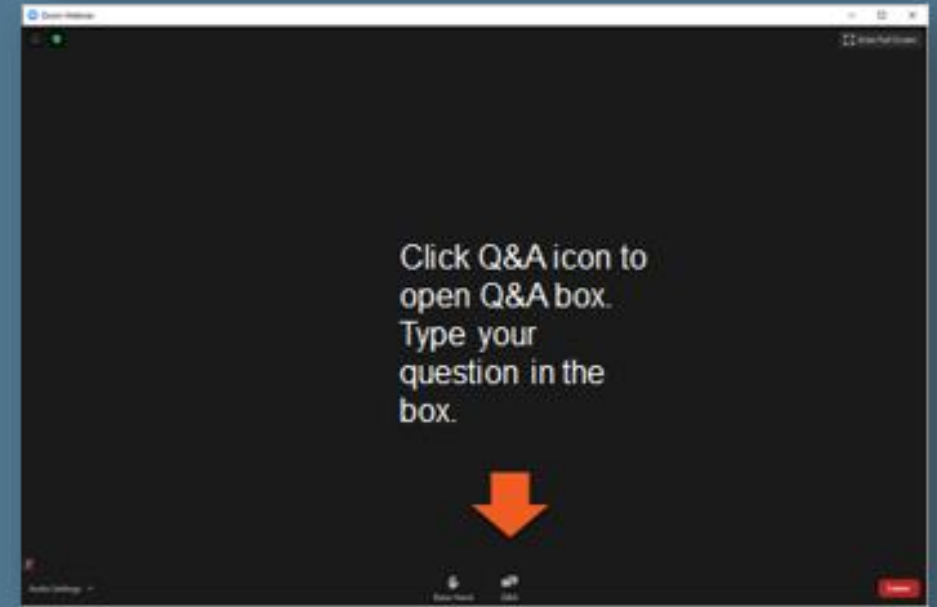


Josh Rasin
Manager, Emerging
Technologies

Questions can be submitted in the chat.

We'll take questions at the end of tonight's presentation.

Although we may not have time to answer all questions, we'll respond to as many as possible via chat and live responses.





Are you ready to Join the Charge?

CleanPowerCity.org



POLL:

Have you signed up to Join the Charge?

- YES!
- Not yet - send me the link!
- No, I want to learn more, first.



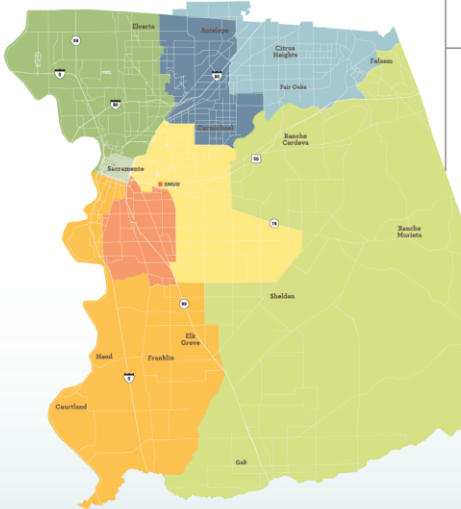


Progress toward our 2030 goals

About SMUD

SMUD is your community-owned, not-for-profit electric service.

6th largest
community-owned
in the U.S.



75+
Years
Est. 1946

Power mix
that's on average
about
50%
carbon-free



The most
ambitious goal
of any large
utility in the
United States

~**645,000** Customers

~**2,300** Employees



7 member
Elected
Board of Directors

SMUD's rates are among the lowest in California,
and on average more than **54% lower** than those of neighboring PG&E.



Where we're headed



Repurpose natural gas generation

Replace 2 power plants with renewable and storage resources and retool remaining 3 to minimize emissions.



Expand proven clean technology

Grow SMUD's renewable and battery storage by 3.5x. Support customer's resources via solar and battery storage.



~\$2 billion investment

Pilot & scale new technology and business models

Increase education and demand flexibility, spread adoption of customer-owned virtual power plants & invest in grid-scale technology.



Pursue grants, partnerships and limit rate impacts



Maximize community benefits

Stay affordable and reliable, improve air quality and overall community health while supporting under-resourced communities.

~\$2.5 billion investment

Goal: 



Eliminate CO₂ from SMUD's power supply



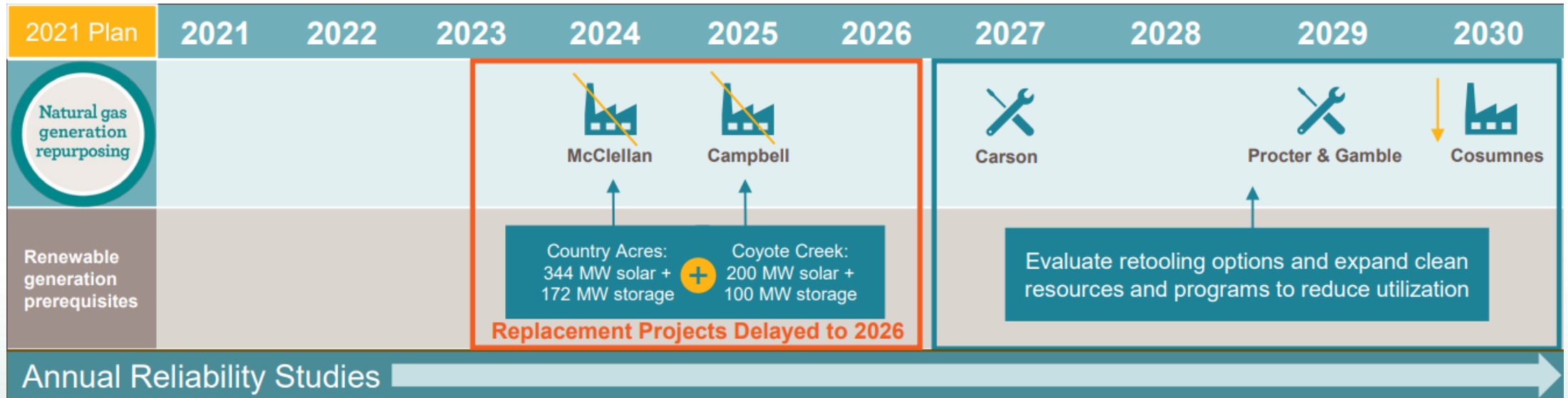
Zero carbon by 2030

Create thousands of new regional clean tech jobs



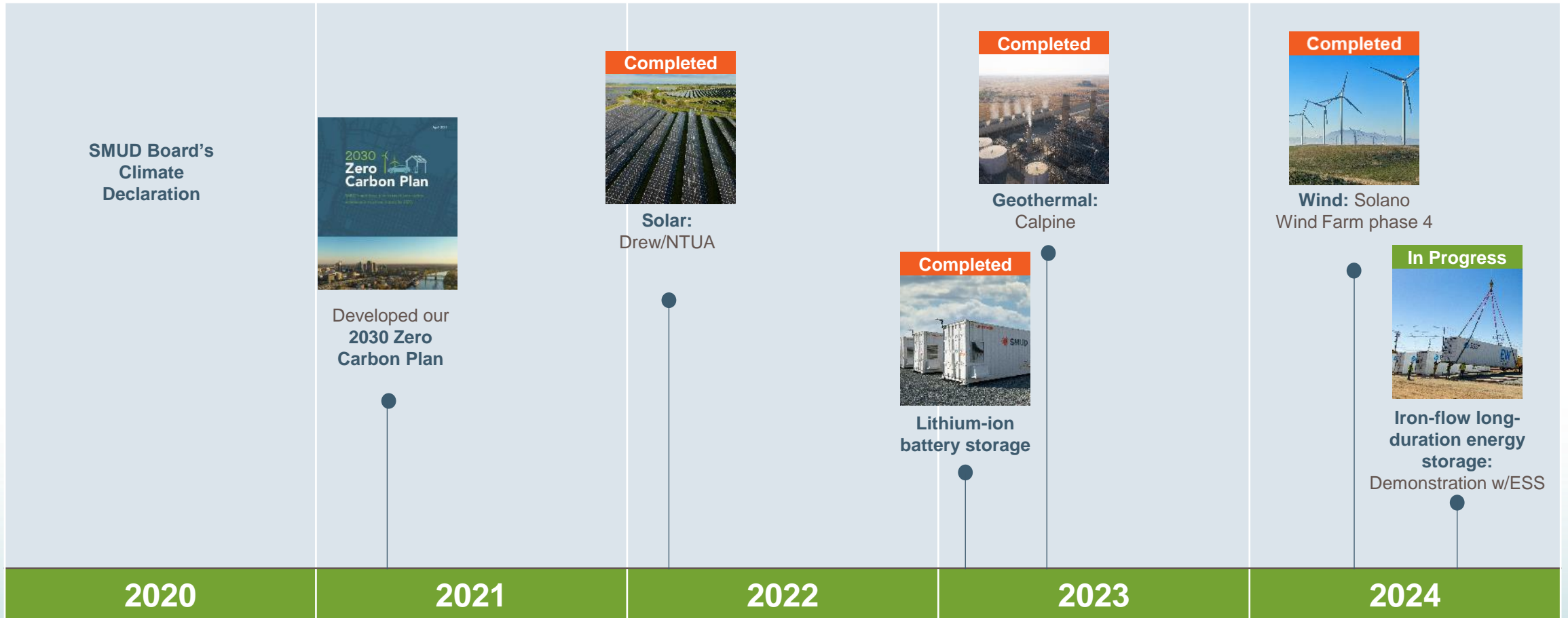
Natural gas generation repurposing plan update

The **Natural Gas Generation Repurposing** pillar is focused on reducing and eliminating greenhouse gas (GHG) emissions at SMUD’s natural gas plants while maintaining **reliable service and affordable electricity** for customers.



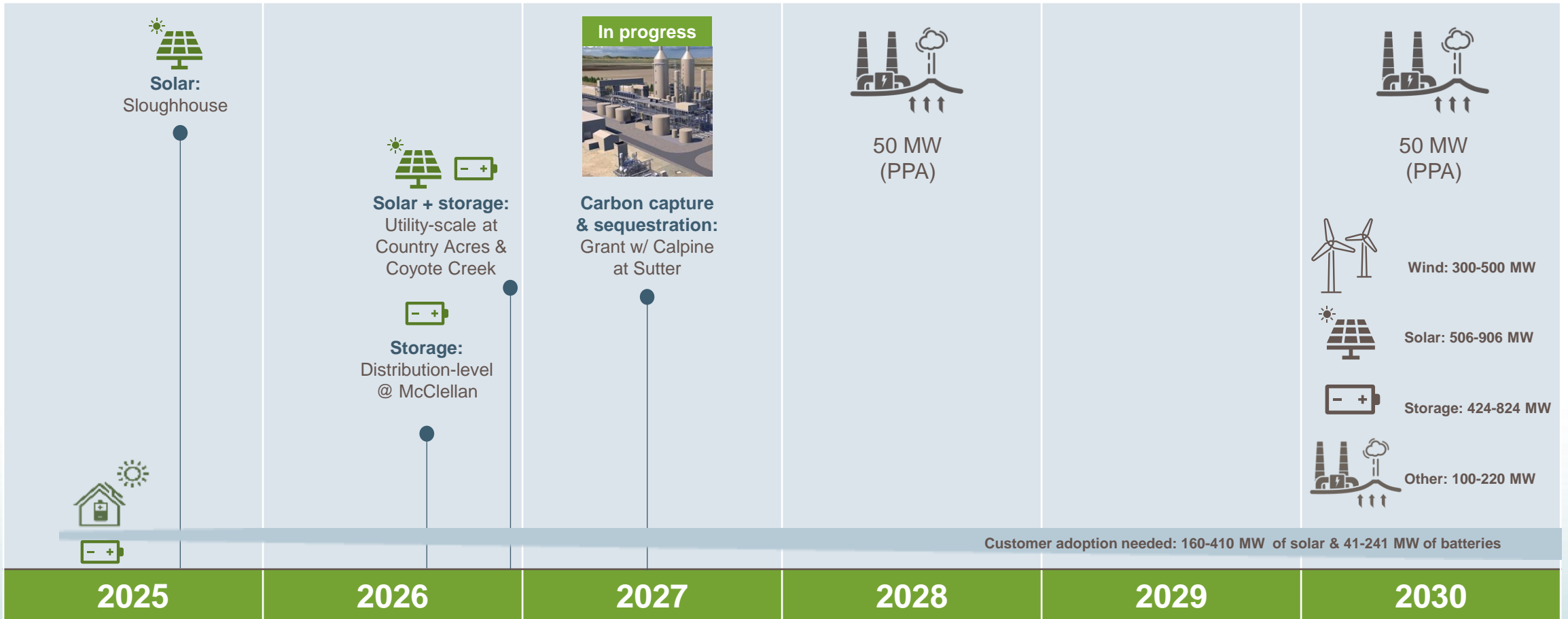


Progress so far





In 6 years





New technologies

Carbon capture & sequestration



Calpine's Sutter Energy Center

1 of 3 projects to receive funding from the U.S. Department of Energy (DOE) Office of Clean Energy Demonstrations.

Long-duration storage



ESS storage project

These large energy storage containers will each have capacity to store about half a megawatt of power for about 7 hours.



Maximizing customer & community benefits



Customer adoption with EVs, solar & storage

2030
Goal



by
2030

288,000 light-duty EVs

500 – 750MW Residential & commercial solar

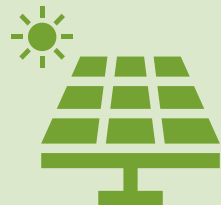
50 – 250MW Residential & commercial storage

154,000 All-electric equivalent homes

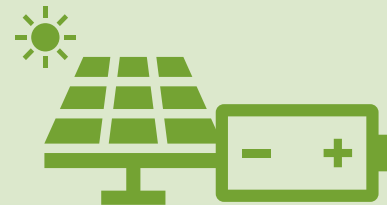
As
of
2023



46,500+ light-duty EVs



52,500+ total installs (350+MW)



1,500+ total installs (13MW)



62,800+ all-electric equivalent homes

2023

Our largest electrification rebates & incentives



Heat pump water heaters

up to \$3,000



HVAC

up to \$3,500



Storage with solar

up to \$2,500
+ earned financial incentives
for SMUD partnership



View all residential customer incentives

smud.org/Rebates



Lighting

Whether you are replacing a few lights or doing a complete overhaul, we have options for you.



Refrigeration

Explore our refrigeration rebates, including efficiency options.



HVAC

Cut costs to install a new heating or cooling system, including parts and contractor fees.



Multi-family rebate program

Business customer incentives

smud.org/MyAdvisor





Community solar: SolarShares

SolarShares[®] customers enjoy the benefits of solar without a solar system of their own.

- **Residential SolarShares** for customers with a residential account not enrolled in Neighborhood SolarShares, the Solar and Storage Rate or other Greenergy programs.
- **Neighborhood SolarShares** for developers and builders to meet CA Building Standards Codes.
- **Commercial SolarShares** for already enrolled businesses to tap into the benefits of solar.*



**Our commercial program is fully subscribed and not taking new enrollments at this time.*



Considering an EV?

Contact **SMUD** first.

smud.org/DriveElectric  **SMUD**

Our EV advisors help put you in the driver's seat

We have a dedicated team to provide you with enhanced EV support.



Be prepared for your EV

If you're just starting to look or if you're ready to purchase, we can help with information on incentives and rebates, the best EV to fit your needs and charging assistance.



Get the right charger

Let us help you find the best charging solution to fit your driving needs and save you money. You may find Level 1 charging, with no additional equipment or upgrades, is a perfect fit for you.



We can guide you

Our EV advisors aren't here to sell you anything. We're here to help give you the best experience with your EV and we'll suggest ways to save you money in the process.



Significant funding secured

SMUD &
partners
secured
\$330
million
in 2023



Department of Energy (DOE) Grid Deployment's Grid Resilience and Innovative Partnerships program – **\$50 million** to support advanced smart grid technologies.

Calpine's carbon capture & sequestration project received **\$270 million** in funding from DOE.



California Energy Commission's (REACH) grant – **\$3.7 million** to deploy reliable, equitable & accessible charging infrastructure for multi-family housing units in under-resourced communities.



Partnerships drive community impact



Affordability



**Equitable
access**



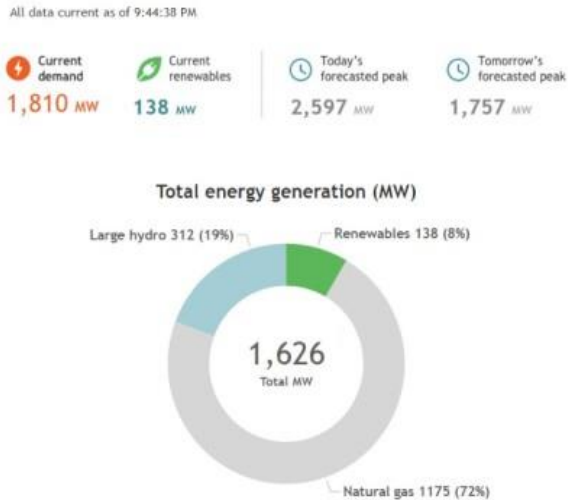
**Community
engagement**



Follow along with our progress

Data-driven dashboards

Energy outlook dashboard

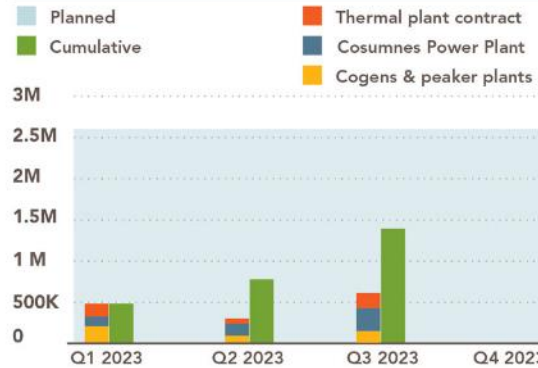


smud.org/EnergyOutlook

Emission & zero carbon progress dashboard

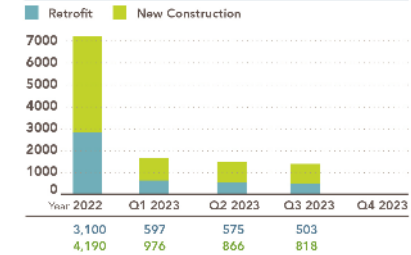
Quarterly generation and emissions from gas plants

2023 Planned GHG = 2.6 million metric tons

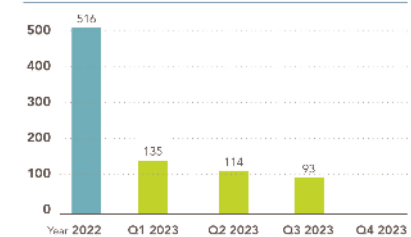


	Q1 2023	Q2 2023	Q3 2023	Q4 2023
Thermal plant contract	153k MT CO2e	33k MT CO2e	175k MT CO2e	--
Cosumnes Power Plant	138k MT CO2e	168k MT CO2e	388k MT CO2e	--
Cogens and peaker plants	208k MT CO2e	103k MT CO2e	169k MT CO2e	--
Total	499k MT CO2e	304k MT CO2e	732k MT CO2e	

Solar installations (Residential + commercial)



Battery storage installations (Residential + commercial)



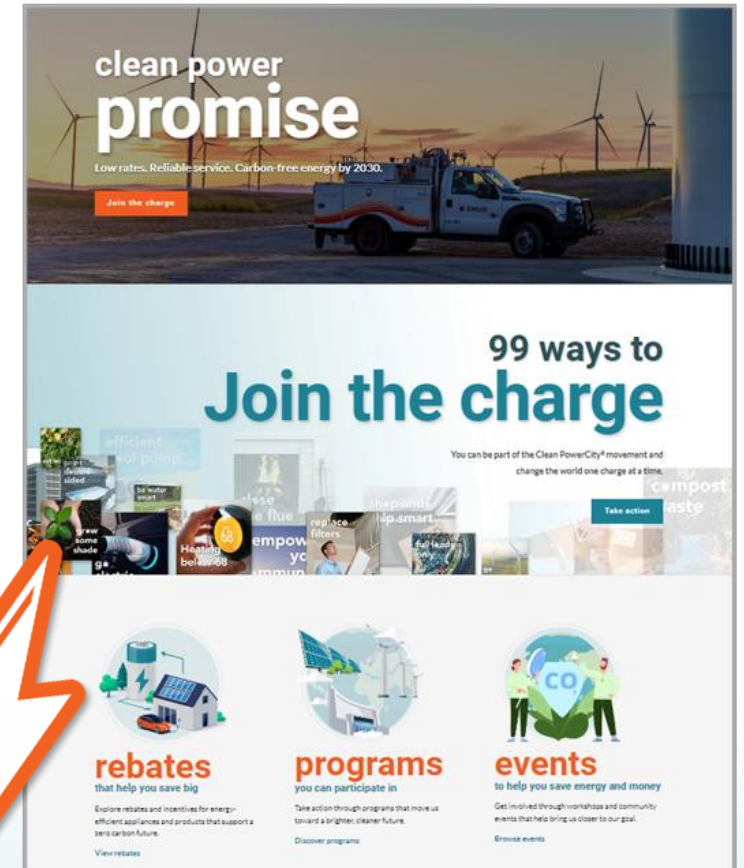
smud.org/2030Progress



CleanPowerCity.org

Show your support to create a healthier environment and cleaner air:

- Discover rebates, incentives & local events.
- Get **99 tips** on being energy smart and reducing your emissions.
- Learn how to support the grid.
- Find out more about electric vehicles.
- **Enjoy some free swag!**



Welcome to the Q&A

Questions can be submitted in the chat.

Although we may not have time to answer all questions, we'll respond to as many as possible via chat and live responses.

