

April 22, 2026

progress

to clear
the air

zero carbon by 2030



Agenda

- **Welcome & introductions**
- **Updates on utility-scale clean energy progress**
- **Programs to maximize customer & community benefits**
- **Q & A**



Rhonda Staley-Brooks

Director, Community
Relations Outreach &
Support



Bryan Swann

Director of Resource
Planning & Commodity
Settlements, Zero Carbon
Energy Solutions



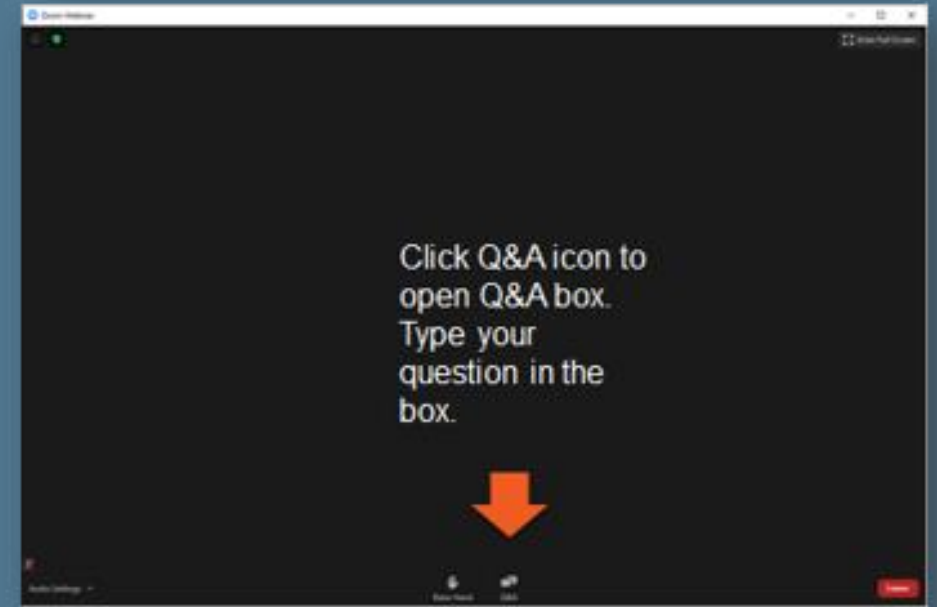
Misty Mersich

Manager of Program
Delivery, Zero Carbon
Energy Solutions

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.





Planning for tomorrow

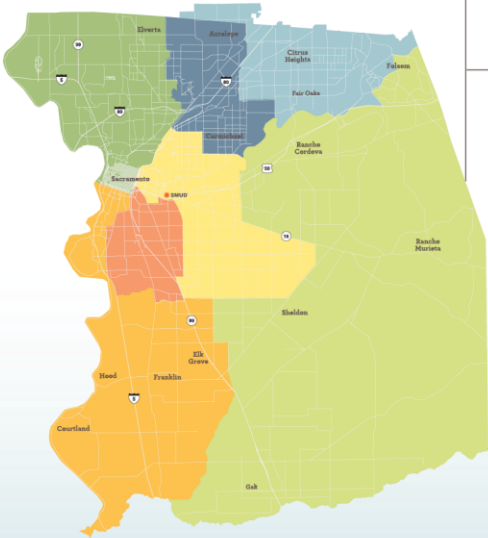
As we work toward our long-term clean energy goals, which area are you most interested in?

- Impact on my bill.
- Reliable electric service.
- Access & equity in programs/incentives.
- Transparency & ongoing updates.

About SMUD

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

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



75
Years
Est. 1946

2024
Power mix
62%
carbon-free



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

~682,000 Customers

~2,500 Employees



7 member
Elected
Board of Directors

SMUD's rates are among the lowest in California,
and on average more than **50% lower** than our neighboring investor-owned utility.



Partnerships drive community impact



Affordability



**Fair
access**



**Community
engagement**

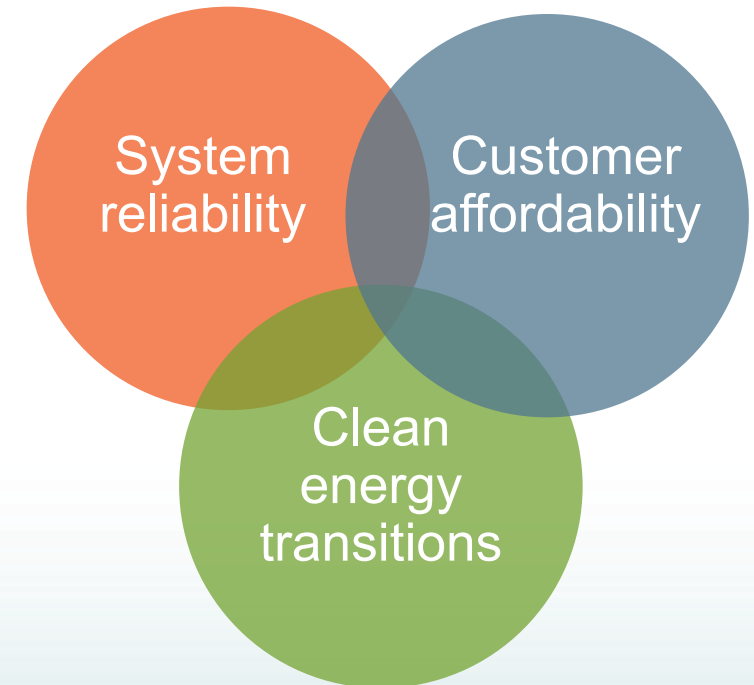


Updates on utility-scale clean energy progress



Guardrails: Affordability & reliability

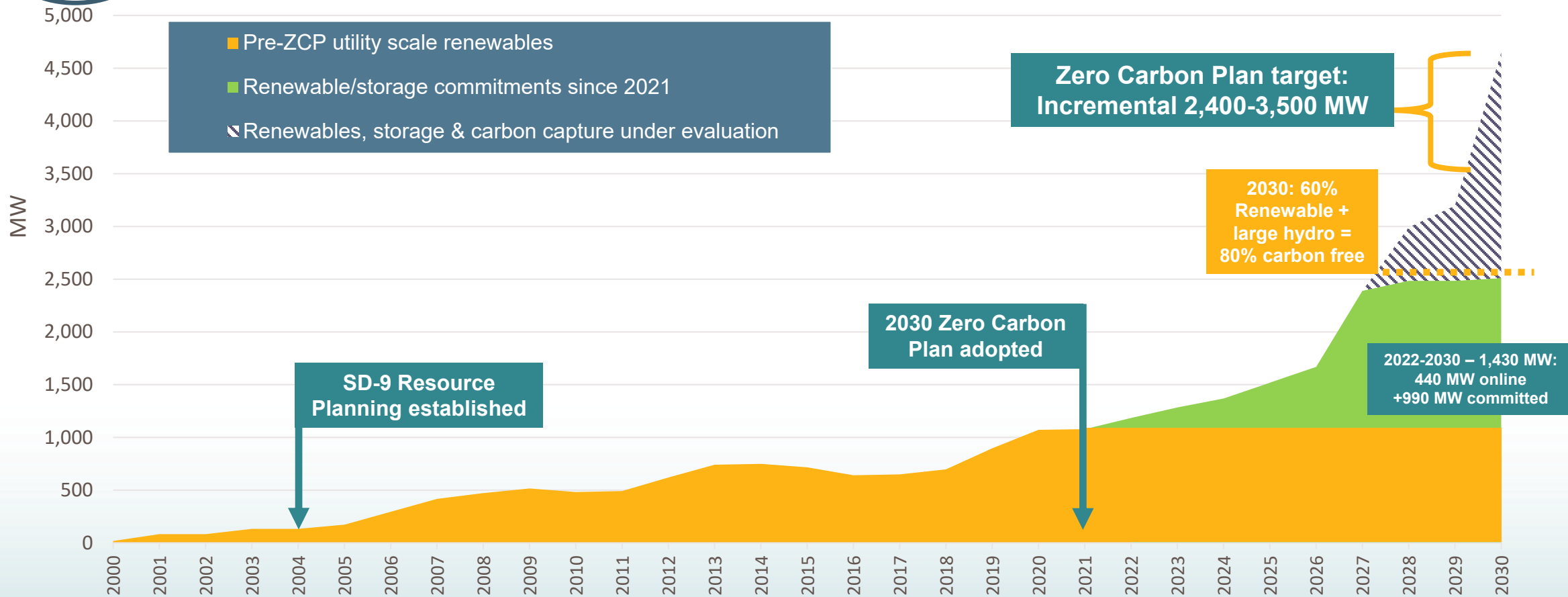
The Zero Carbon Plan was designed to be a flexible pathway, without compromising the guardrails of **affordability & reliability**.



Significant headwinds & challenges.



Utility scale clean energy progress

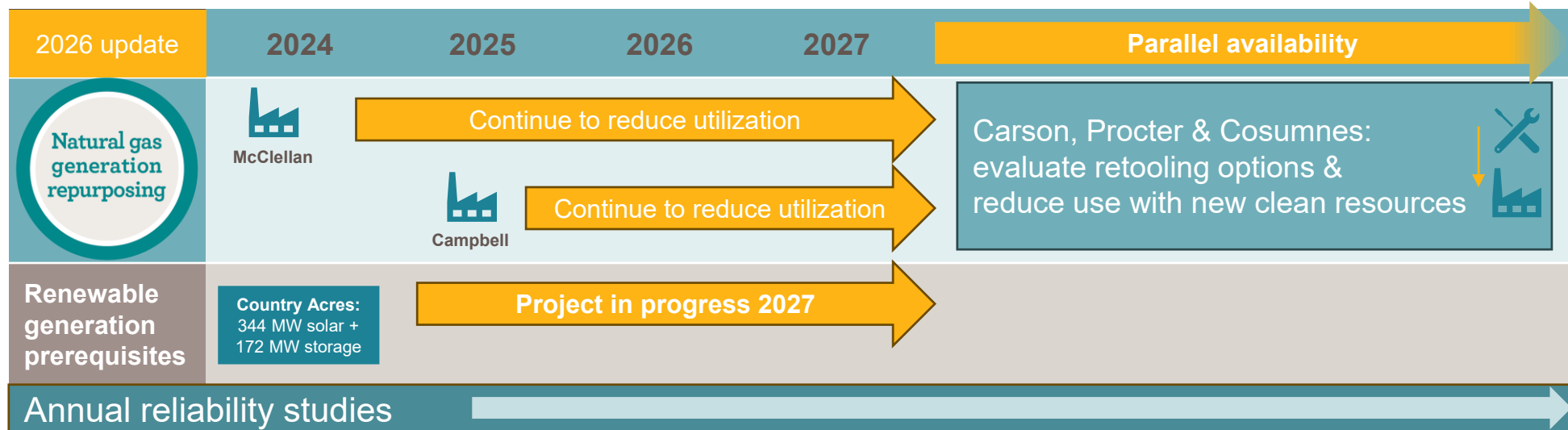


- So far we've committed to 1,430 MW this decade (+130% of what we accomplished the previous 2 decades).
- We're evaluating ~2,100 MW of additional clean resources between 2028-2030
- Headwinds: pricing for clean resources have increased significantly since our original ZCP





McClellan & Campbell transition



McClellan & Campbell replacement resources delayed, shifting original schedule out.



- Updated reliability studies confirmed Country Acres project can replace McClellan & Campbell but parallel availability of thermals will be needed to ensure a reliable & affordable transition.
 - Aligns with California 2045 100% Clean goal studies.
 - Continue to evaluate transition to reliability use and assess affordability.



Tule fog impacts – Low Solar/Wind

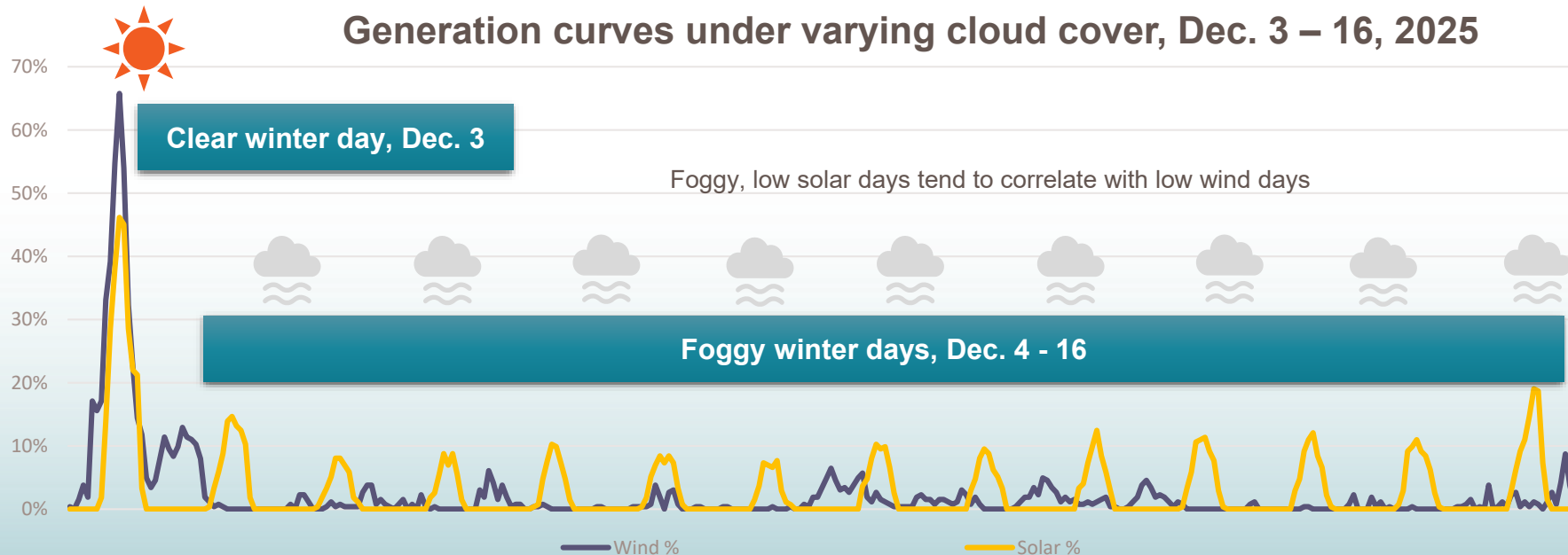


Tule fog event in California's Central Valley: Nov. 24 – Dec. 9, 2025

-  Reduced utility-scale solar generation to as low as 10% of potential max generation.
-  Only 34% of the seasonal winter average generated during this weather event.

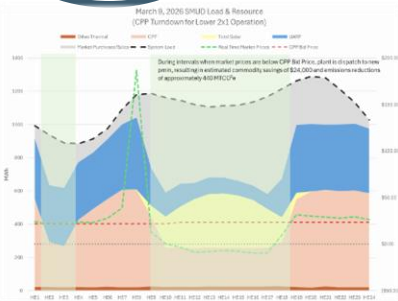
Winter can be just as, or more, challenging than meeting summer peak - we need firm generation to ride out these events.

Generation curves under varying cloud cover, Dec. 3 – 16, 2025





Natural Gas power plant retooling projects



Cosumnes Power Plant – Completed 2025

More flexible and reduced run hours/emissions

↑ Up to ~\$10 million/year in fuel savings.

↓ Up to 27% reduction in GHG



Campbell Soup Generation – Planned Late 2026

More flexible and reduced run hours/emissions

↑ Up to ~\$180K/year in fuel savings.

↓ Up to 5% reduction in GHG.



Procter & Gamble Generation – Planned Late 2026

Auxiliary boilers allow generator to shut down if not needed for SMUD demand

↑ Up to ~\$2.3 million/year in fuel savings.

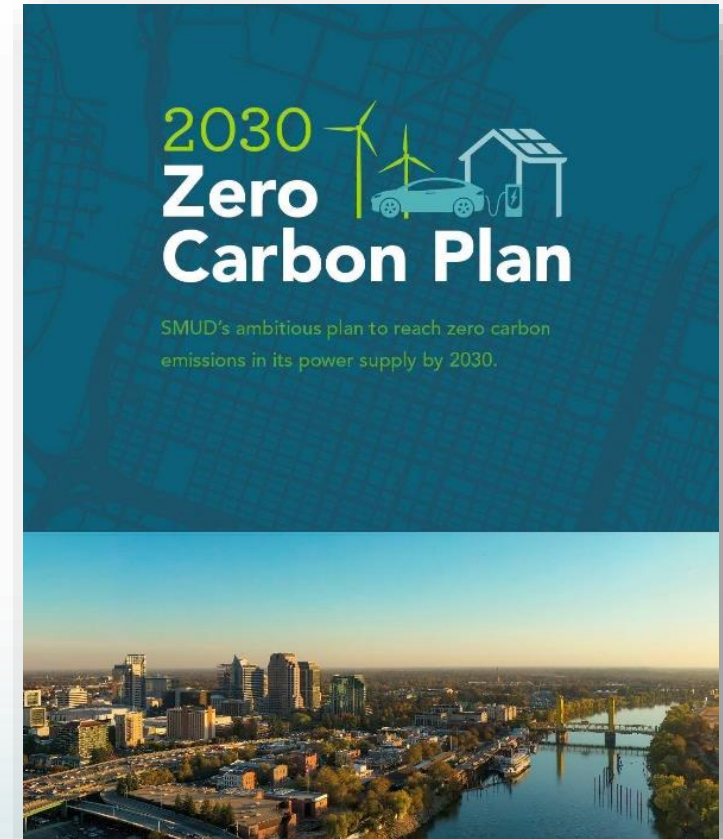
↓ Reduced fuel, commodity cost & GHG emissions.

These projects focus on reduced fuel use and emissions reductions by over ~160k metric tons GHG annually.



2030 Zero Carbon Plan Anniversary

- 2026 marks the 5-year anniversary of SMUD Board's adoption of the Zero Carbon Plan (our current Integrated Resource Plan - IRP).
- Significant progress to-date & continued work toward decarbonizing the Greater Sacramento economy.
- Many lessons learned over the past 5 years & significant challenging conditions around the plan - time to update IRP.
- We also have a California requirement to file an IRP with the California Energy Commission in Sept. 2027.





Key questions to answer in IRP



What does our decarbonization path look like considering all the challenges in our industry today?



What major generation & grid investments are needed in the coming years to support load growth in the region?



How do we maintain reliability & affordability on our path to zero carbon? What levers do we have to balance these objectives?



What will the transition to a fully decarbonized grid look like & how will regionalization help?



2026-27 Integrated Resource Plan update schedule



Board & public IRP process to kick off Oct. 14, 2026.

SMUD will engage the community through workshops & outreach during the process.



Progress on programs to maximize customer & community benefits



Zero carbon customer program portfolios



Building electrification & energy efficiency

Helping customers decarbonize their homes and workplaces by optimizing and managing their electricity use and converting from gas to efficient electric equipment.



Distributed energy resources/ load flexibility

Programs and options to participate in building our Virtual Power Plant to help shift and manage loads during times when energy is needed or when excess energy is available.



Transportation electrification

Information and resources to help customers shop for an EV and special rates and incentives to help customers charge EVs at homes and businesses.



Green pricing

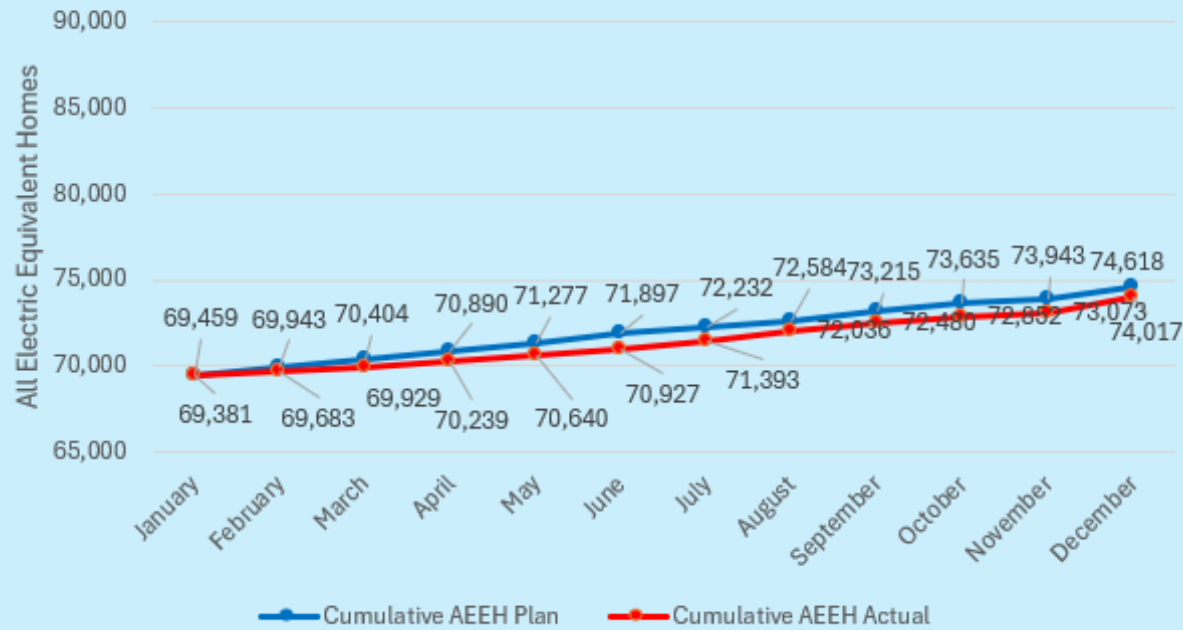
Gives customers the ability to opt in and select a level of renewable and/or carbon-free electricity that meets individual or corporate objectives above and beyond our standard retail rates.



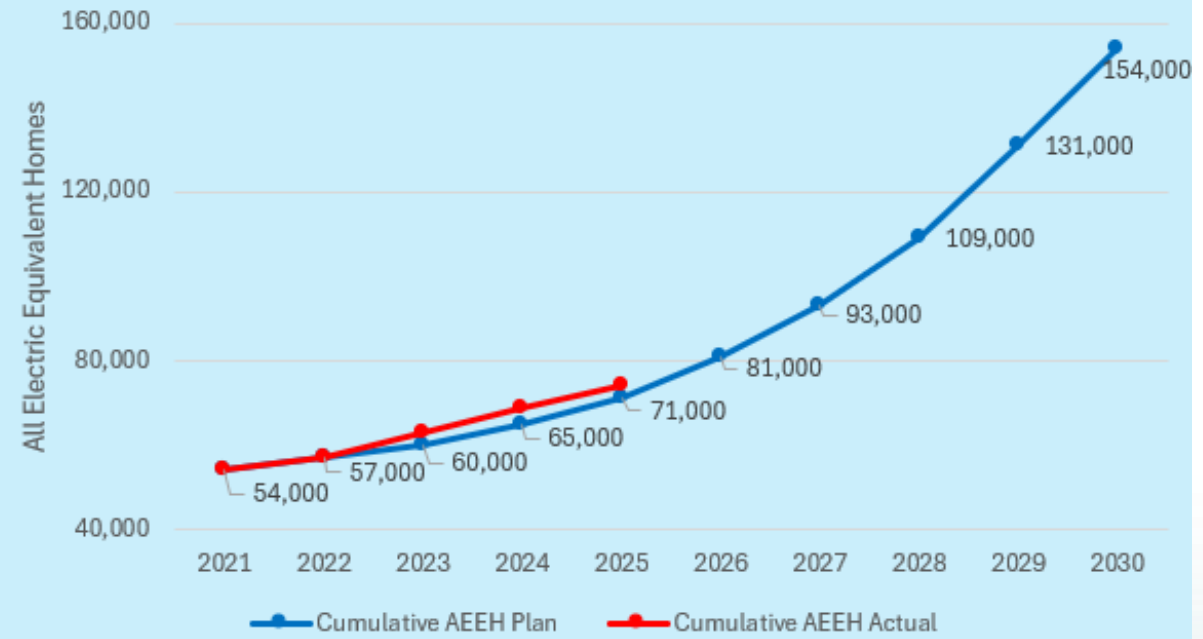
Building electrification & energy efficiency

Customer program portfolio status

2025 All Electric Equivalent Homes



All Electric Equivalent Homes by 2030





Building electrification & energy efficiency Highlights



Advanced Home Solutions:
Happy Customer with a new heat pump HVAC



Custom retrofit: Sac Food Bank



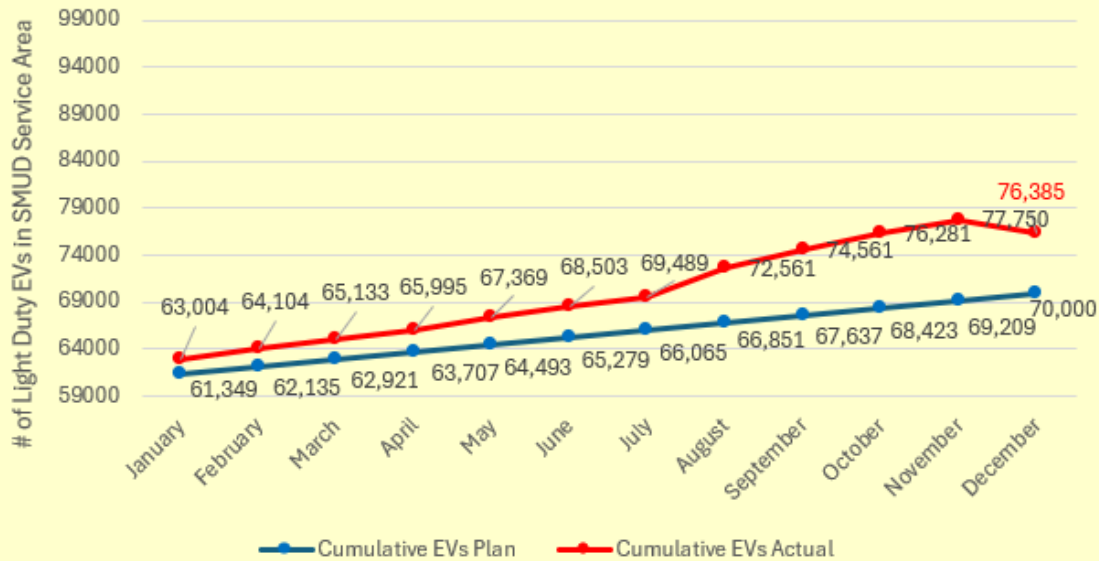
**Integrated Design Solutions: Aggie Square –
OA Heat Recovery**



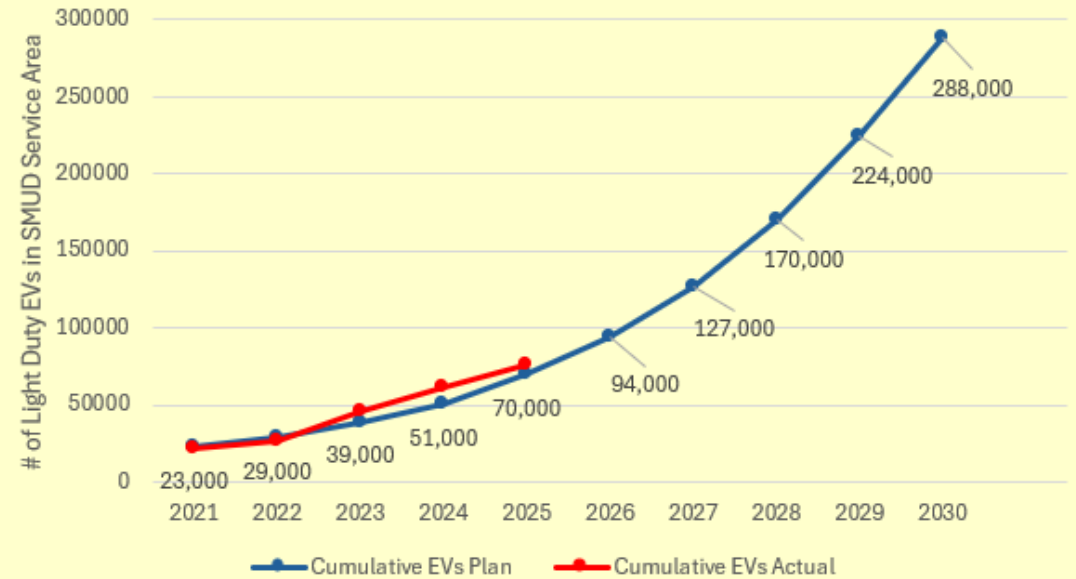
Transportation electrification

Customer program portfolio status

2025 Light Duty Electric Vehicles



Light Duty Electric Vehicles by 2030





Transportation electrification

Highlights



Commercial EV, Go Electric & Integrated Design Solutions at CORE Elk Grove



Ten L2 EV chargers at Sacramento Food Bank

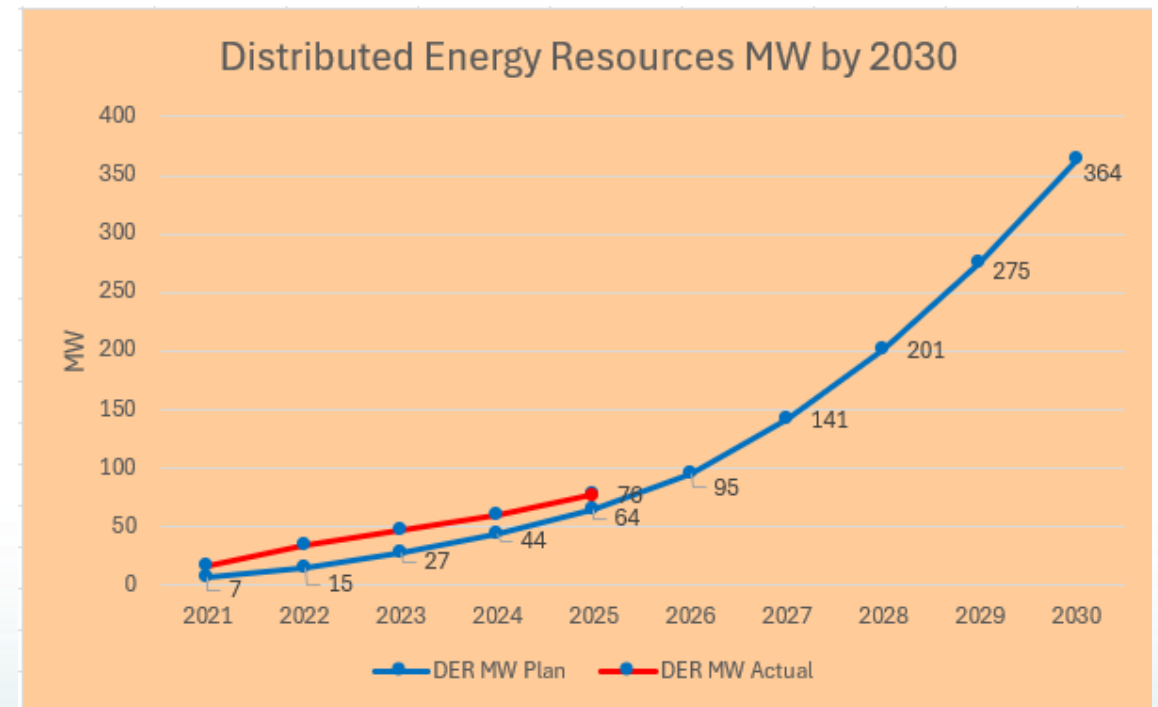
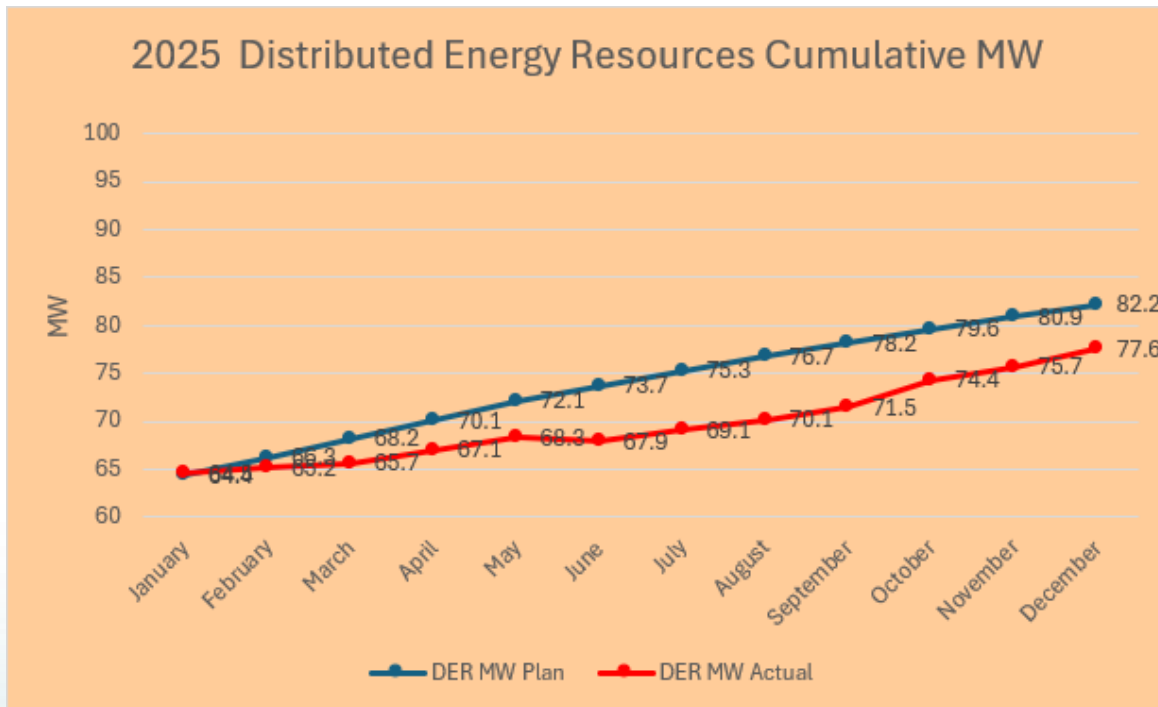


Smart outlets at Bridgeway Towers: 47 Level 1 (L1) "smart" chargers



Distributed energy resources/load flexibility

Customer program portfolio status





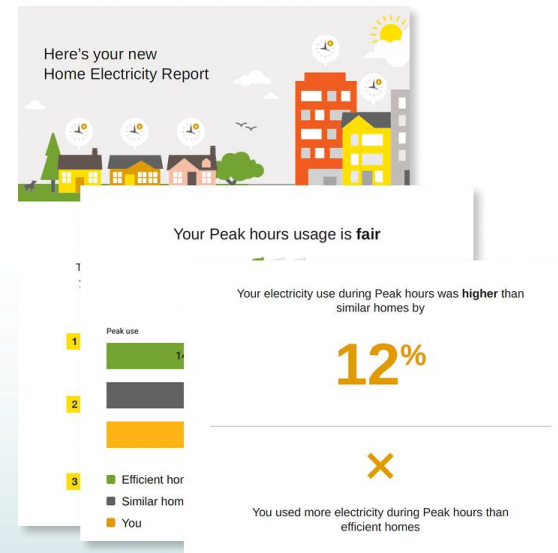
Distributed energy resources/load flexibility Highlights

● battery storage
incentives
Up to \$10,000
smud.org/Battery ● SMUD

My Energy Optimizer Partner + Program & Campaign



PowerDirect



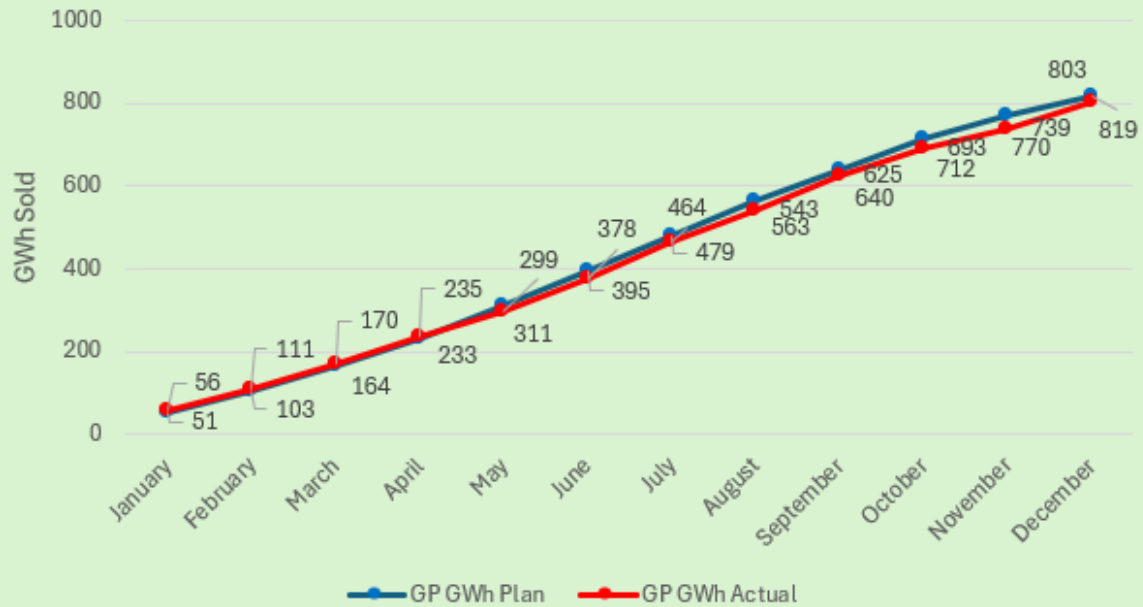
Peak focused Home Electricity Reports



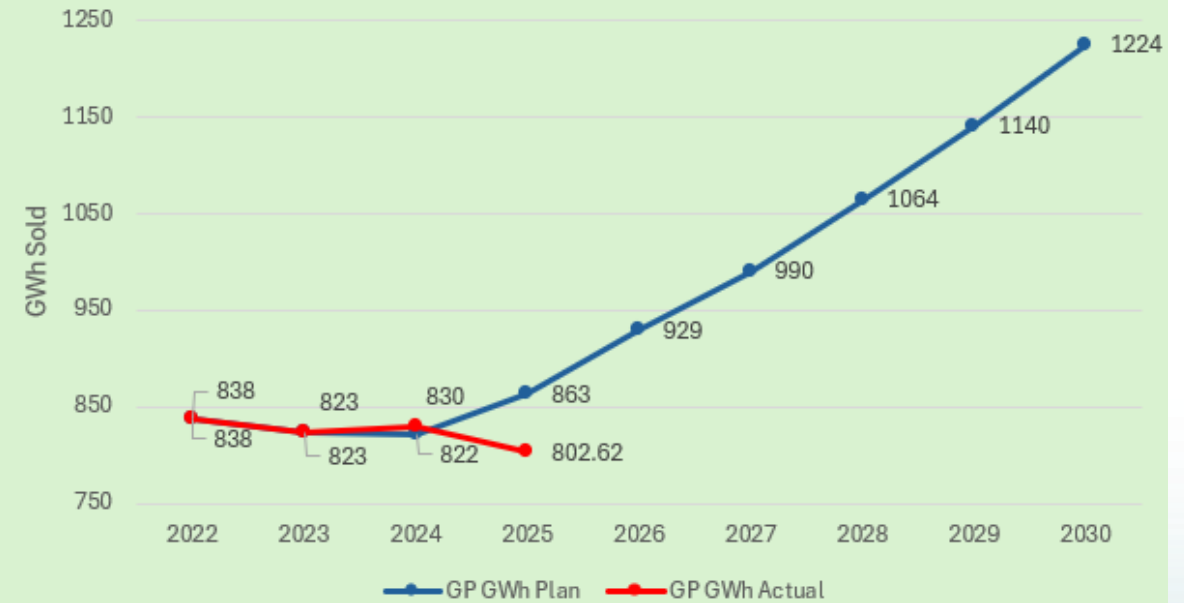
Green pricing programs

Key metrics & milestones

2025 Green Pricing GWh



2025 Green Pricing GWh





Green pricing programs

Highlights



Climate Advocate charging stations



Environmental Council of Sacramento



CalPERS Greenergy & SolarShares

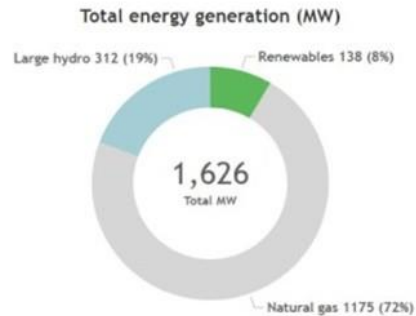


Follow along with our progress

Energy outlook dashboard

All data current as of 9:44:38 PM

🔥 Current demand **1,810 MW**
🌿 Current renewables **138 MW**
🕒 Today's forecasted peak **2,597 MW**
🕒 Tomorrow's forecasted peak **1,757 MW**



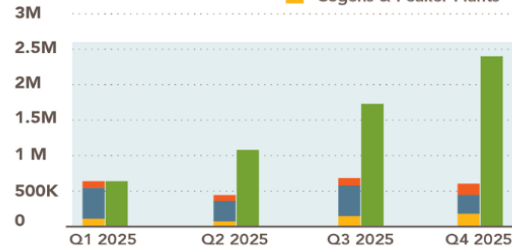
smud.org/EnergyOutlook

Emission & zero carbon progress dashboard

Quarterly generation and emissions from gas plants

2025 Planned GHG = 2.6 million metric tons

📅 Planned 🔥 Thermal Plant Contract
📊 Cumulative 🏭 Cosumnes Power Plant
🏭 Cogens & Peaker Plants



	Q1 2025	Q2 2025	Q3 2025	Q4 2025
Thermal plant contract	102k MT CO ₂ e	119k MT CO ₂ e	131k MT CO ₂ e	163k MT CO ₂ e
Cosumnes Power Plant	418k MT CO ₂ e	255k MT CO ₂ e	425k MT CO ₂ e	258k MT CO ₂ e
Cogens and peaker plants	115k MT CO ₂ e	73k MT CO ₂ e	168k MT CO ₂ e	181k MT CO ₂ e
Total	635k MT CO₂e	447k MT CO₂e	724k MT CO₂e	602k MT CO₂e

Solar installations (Residential + commercial)

🔧 Retrofit 🏠 New Construction 📊 Cumulative



Battery storage installations (Residential + commercial)

🔋 Actual 📊 Cumulative



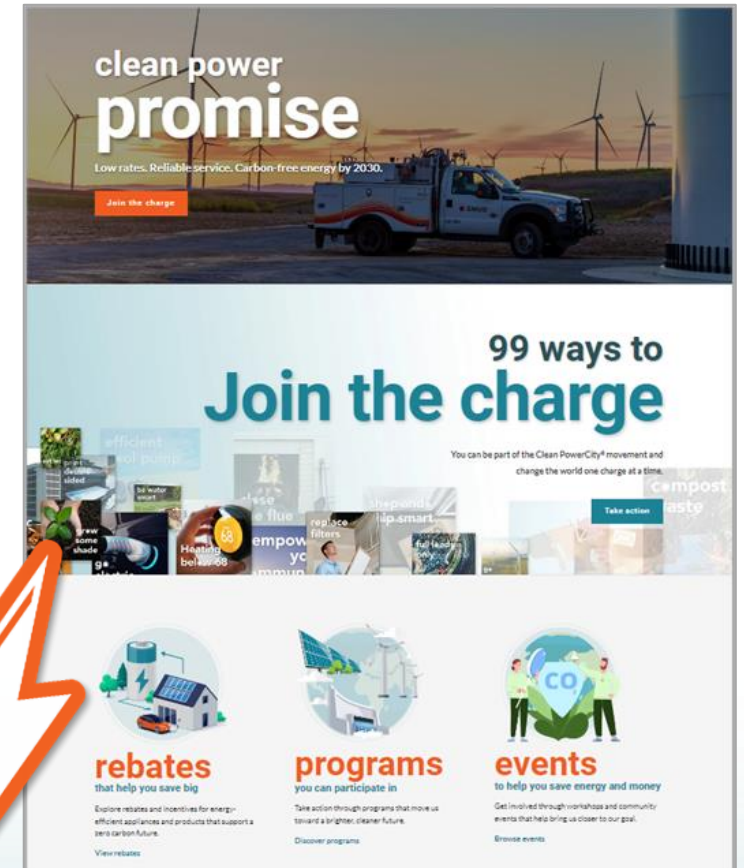
smud.org/2030Progress



CleanPowerCity.org

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

- Discover rebates & incentives.
- Get **99 tips** on being energy smart and reducing your emissions.
- Check out our Road to Zero blog.
- Join the charge and officially become a Clean PowerCity® Champion today!



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.

