

Agenda

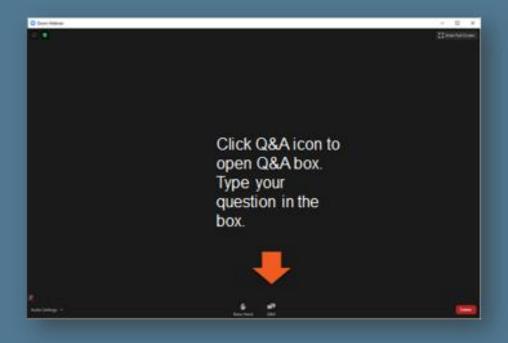
- Meet our presenters
- Road to Zero: join the charge!
- What SMUD's doing & why: Our progress toward clean power
- What you can do: Your role in the 2030 Clean Energy Vision
- Q & A



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.







Crystal Richardson Supervisor, Community Engagement Events



Joel Ledesma
Director, Power Generation



Ed HamzawiDirector, Advanced Energy
Solutions





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.







2030 Zero Carbon Plan





Why?

SMUD & regional agencies recognize that we're facing a climate crisis and must act.

Rising temperatures have an adverse impact on the economy.



American Lung
Association gives the region an "F" for air quality.*

Local childhood asthma rates are about 22% higher than the national average.**







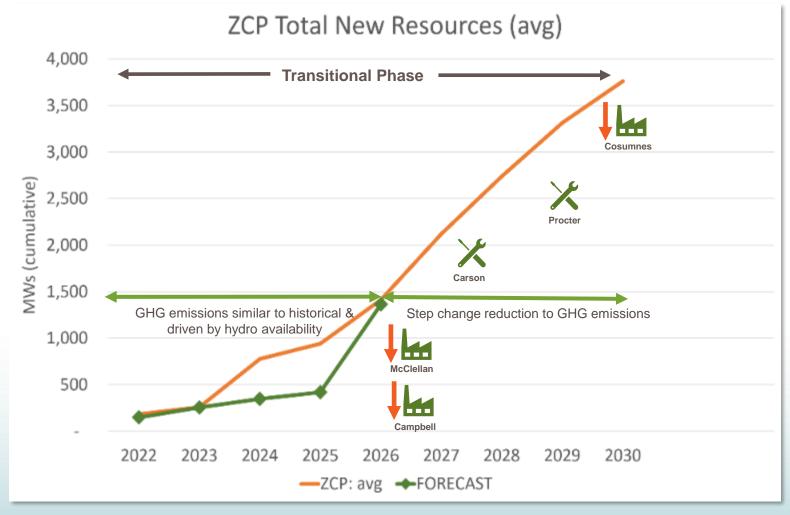


Our progress toward clean power





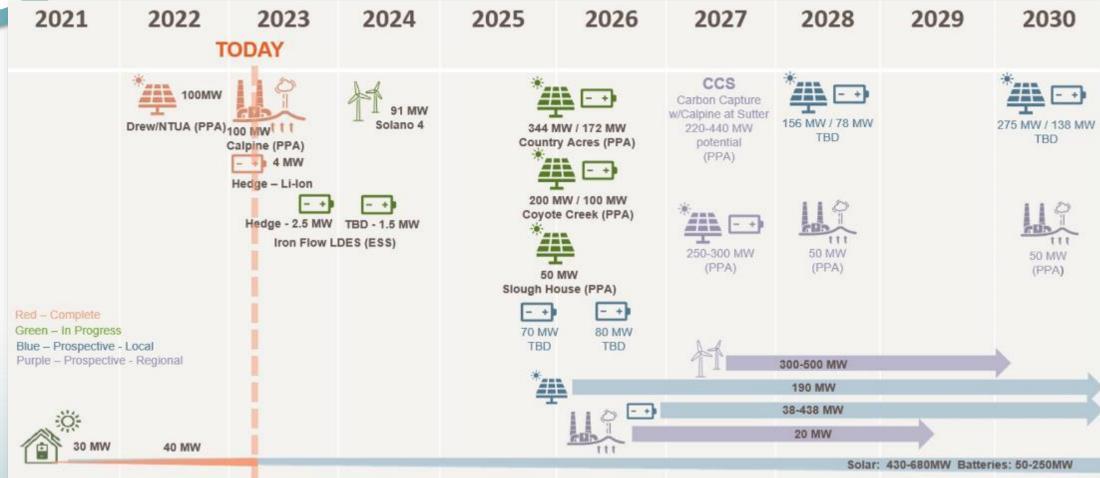
Work in progress vs 2030 Zero Carbon Plan







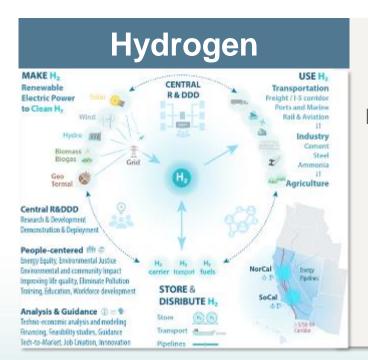
2022 accomplishments / 2023 priorities







New technologies



H2Hubs

8-10 regional Clean
Hydrogen Hubs funded
through the
Department of Energy.
SMUD concepts have
been selected as
alternatives in the
application process.

Carbon capture & storage



Sutter Energy Center

power agreement (PPA) for carbon capture with Calpine.

Long-duration storage



4MW / 24MWH

Current demonstration at Hedge of ESS's flow-battery 'Energy Warehouse.'





Proven clean technologies

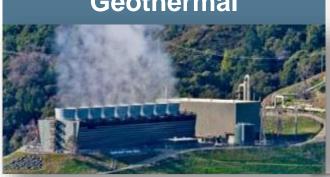
Solano wind assets



300 MW

by May 2024 through all Solano assets. Now installing 19 turbines at Solano 4 for 85.5 MW total.

Geothermal



100 MW

contract executed Jan 2023 with Calpine at The Geysers. Equivalent to removing 342,000 metric tons of GHGs.

Solar & storage



594 MW PV 272 MV x 4 hr BESS

3 projects current in permitting phase. Forecast operation 2026.

Long-term storage



4MW / 24MWH

project commission in Fall of 2023. Current demonstration at Hedge of ESS's flow-battery 'Energy Warehouse.'



Opt-in for a chance to win!



1 of 5 \$100 Amazon gift cards





Your role in the 2030 Clean Energy Vision

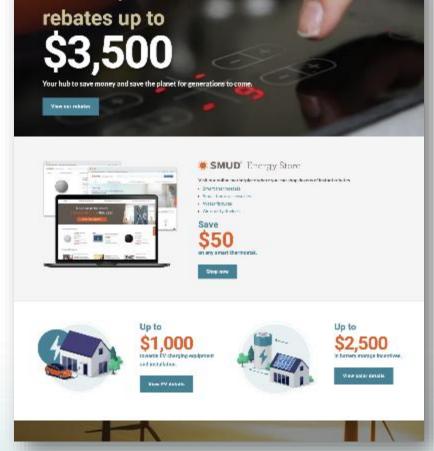




CleanPowerCity.org

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

- Discover rebates & incentives.
- Get 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!**













Clean PowerCity













Zero Carbon customer programs opportunities



Energy efficiency & building electrification

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



Load flexibility & battery storage

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.



Driving electric

Incentives, information and special rates to help customers purchase and charge EVs for 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.





How do I decarbonize my home?

Energy efficiency & electrification residential programs

Advanced home solutions contractor network



- Heat pump HVAC
- Heat pump water heaters
- Seal and insulate
- Circuit upgrades
- Panel upgrade

Customer information & rebates



- Informational programs
 - Home electricity reports
- SMUD Energy Store
 - Smart thermostats
- Induction cooktops

Retailer partnerships



- Refrigerator & freezers
- Washers & dryers
- Room air conditioners
- Air purifiers
- Advanced power strips

smud.org/Rebates





How do I decarbonize my business?

Energy efficiency & electrification commercial programs



Express Energy Solutions



Complete Energy Solutions



Advanced Commercial Solutions









Residential & commercial programs

Driving electric

Residential



- Drive Electric Program
 - EV information support & PlugStar online tools
 - · Ride & Drive events
 - Dealer engagement
- SMUD Charge@Home Program
- Residential EV rate credit
- Sacramento Clean Cars for All Partnership
- Managed Charging Pilot

smud.org/DriveElectric

Commercial



- Commercial EV Program
 - Light, medium & heavy-duty vehicle incentives
 - Level 1, 2 and fast charger incentives
- SMUD eFuelSM advisor & solutions
- Commercial EV Pilot rate

smud.org/DriveElectricBusiness





How can I help my community build a virtual power plant?

Load flexibility & battery storage

Battery Storage



Residential

My Energy **Optimizer**SM

Commercial Commitment to Operate

Smart Thermostats



www.MyEnergyOptimizer.org







Residential

Peak Conserve

Automated Demand Response

Green/Battery-storage



smud.org/PowerDirect

Commercial

PowerDirect[®]

Water Heaters



smud.org/powerminder

Residential

Power Minder Pilot Project

Electric Vehicles



Managed Charging Pilot Project

Residential





Residential & commercial programs

Green pricing

Residential Greenergy



smud.org/Greenergy

Options

- Standard
- California renewable
- Local renewable
- Neighbor
- Climate Advocate

Community Solar & Storage



Neighborhood SolarShares

Commercial StorageShares

Commercial Greenergy



smud.org/Greenergy

Partner Plus

 100% Californiabased carbon free generation

Custom Blend

 Tailored mix based on customer needs

Sacramento Shade



smud.org/ShadeTrees

Free trees for residential customers, parks, & communities



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Welcome to the Q&A

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