

Exhibit to Agenda Item #1

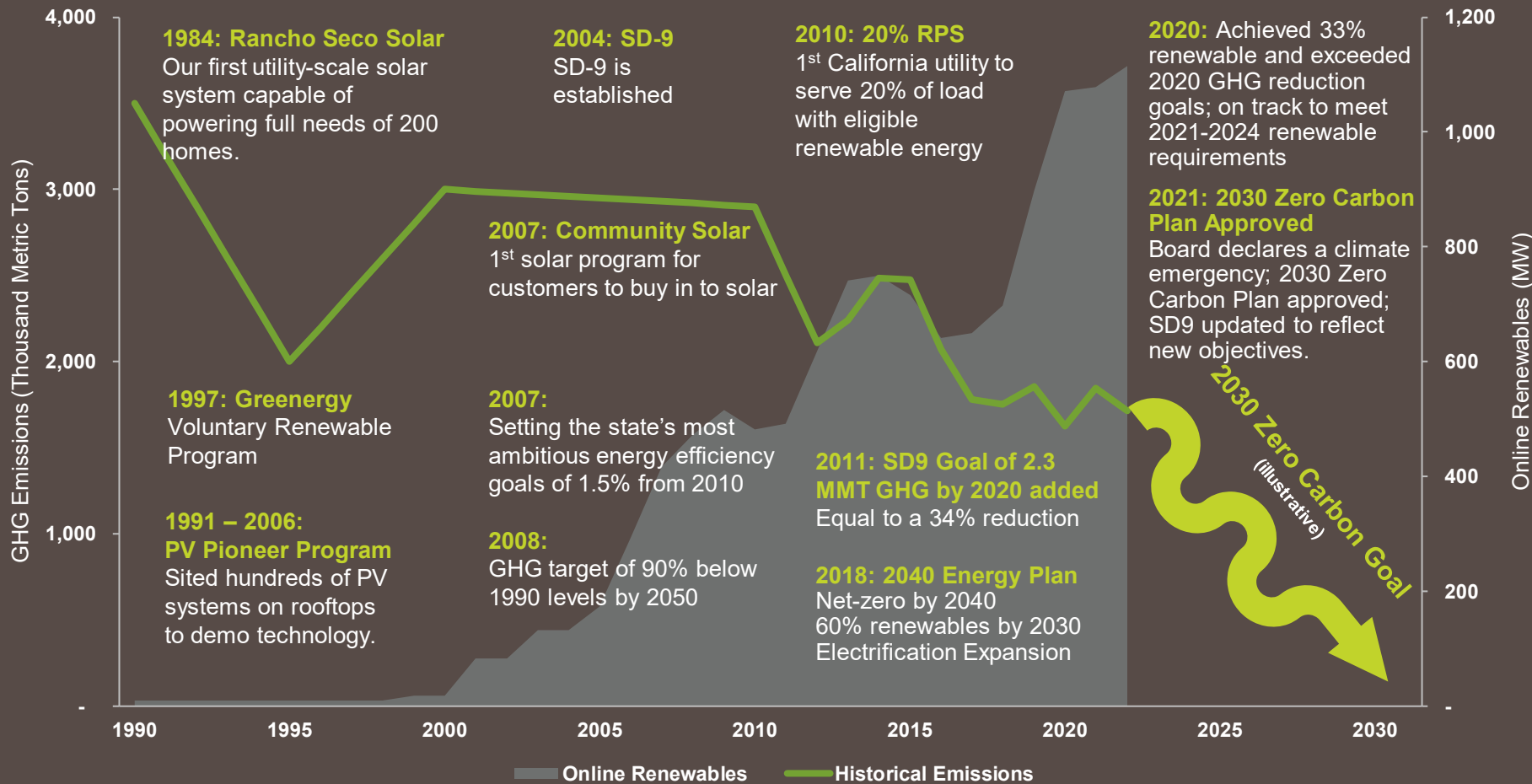
Accept the monitoring report for **Strategic Direction SD-9, Resource Planning.**

Board Finance & Audit Committee and Special SMUD Board of Directors Meeting
Tuesday, November 14, 2023, scheduled to begin at 6:00 p.m.

SMUD Headquarters Building, Auditorium

SD9 Goals Past/Present/Future

2030 Zero Carbon Goal – Eliminate All GHG Emissions from SMUD’s Energy Supply by 2030



2022 Update

Key efforts:

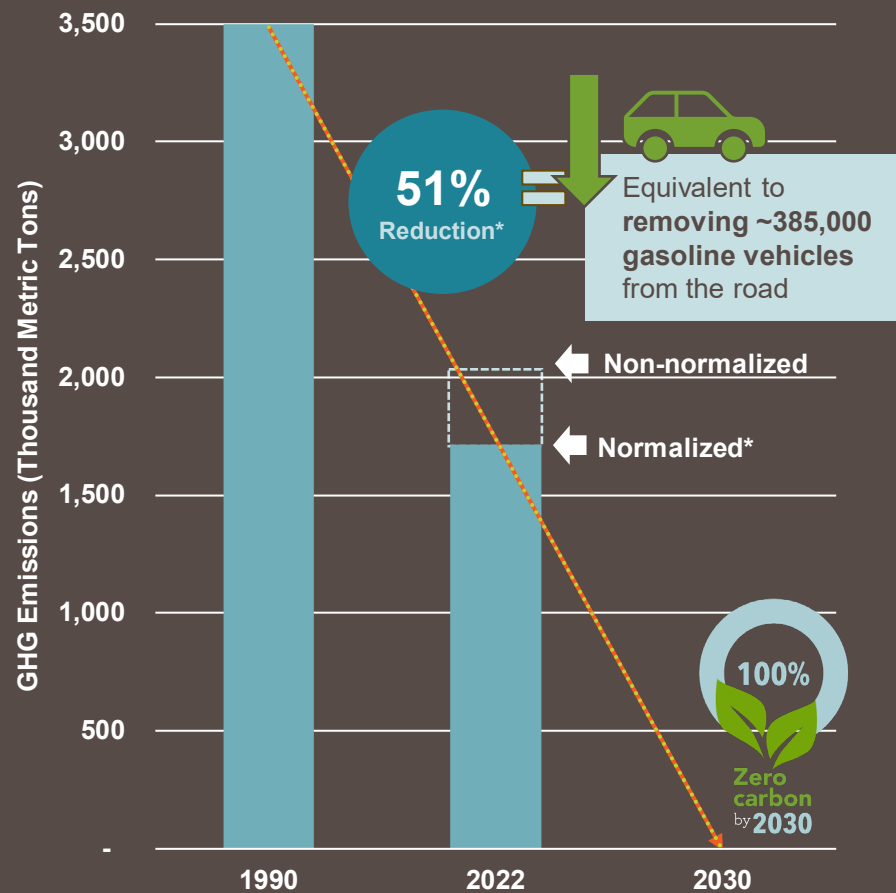
- Expanded renewables and storage
- On track to meet state renewable requirements
- Continued exploration and development of new tech and business models
- Kicked off our Community Impact Strategy
- Supported growth of clean distributed energy resources

Challenges:

- Cosumnes Power Plant unplanned outage
- Continued drought conditions
- Renewable project delays and unplanned outages

Ensure Affordable, Reliable and Equitable Service

2022 Performance: Greenhouse Gas (GHG) Targets and Goals



2022 SD-9 GHG Footprint & Near-Term Targets ¹	
Source	GHG Emissions (Thousand MT)
Net SMUD Carbon Emissions ² (Non-Normalized Total)	2,082
Adjustment for Expected Load SMUD retail sales were 0.3% higher than expected	-8
Adjustment for Expected Wind and Hydro SMUD hydro generation was 40% lower than expected SMUD wind generation was 1.2% lower than expected	-212
Adjustment for REC Banking	-137
2022 SMUD Normalized Emissions	1,725
2030 Target	0

¹ The thermal power plant emissions, SMUD's largest source of emissions, have been independently verified. Emissions by individual thermal asset can be found in the 2022 SD-7 Report.

² Net of wholesale sales

2022 Renewable Portfolio Standard (RPS) Procurement and Project Development

Project Name	Type	Online Year	Status	Size (MW)	Equivalent Homes Powered	Estimated Annual GHG Emissions Avoided (MT/year)
Hedge Battery	Battery	2022 ✓	Online	4	800 (peak)	NA
NTUA Drew Solar	Solar PV	2022 ✓	Online	100	33,100	117,579
Calpine Geysers	Geothermal	2023	Online	100	97,300	322,850
ESS Battery Pilot	Long-duration Storage	2024	Construction	4	800 (peak)	NA
Solano 4	Wind	2024	Construction	85.5	26,800	118,147
Coyote Creek	Solar PV	2026	Under Development	200	58,500	193,870
	Battery			100	20,000 (peak)	NA
Slough House	Solar PV	2025	Under Development	50	14,600	48,369
Country Acres	Solar PV	2026	Under Development	344	100,400	248,352
	Battery			172	34,400 (peak)	NA
Total	Generation			879.5	387,900	1,049,167
	Storage			280		

RPS: On-track to meet current 2021-2024 compliance period requirements.

Clean Distributed Generation and Storage



Customer Solar – 2022 Installations

Residential		Commercial		Total	
Installed Systems	MW	Installed Systems	MW	Installed Systems	MW
7,009	33.61	270	7.21	7,279	40.82



Customer Energy Storage – 2022 Installations

Residential Battery		Commercial Battery		Totals	
Installed Systems	MW	Installed Systems	MW	Installed Systems	MW
509	3.26	1	1.29	510	4.55

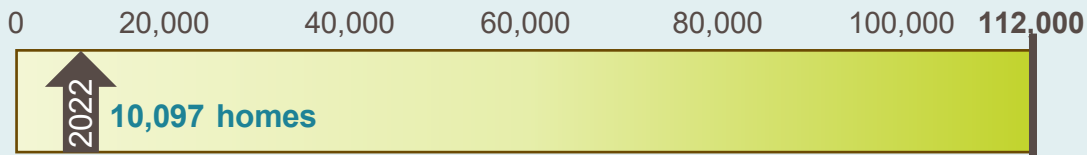
Building Energy Efficiency, Building Electrification, Transportation Electrification

Building Energy Efficiency and Electrification

New residential and multifamily all-electric units constructed	1,299
Existing residential gas to electric retrofits completed	3,262
New commercial energy-efficient buildings constructed	14
Existing commercial retrofit projects completed	311
Energy efficiency and building electrification upgrades for income-eligible customers	3,074

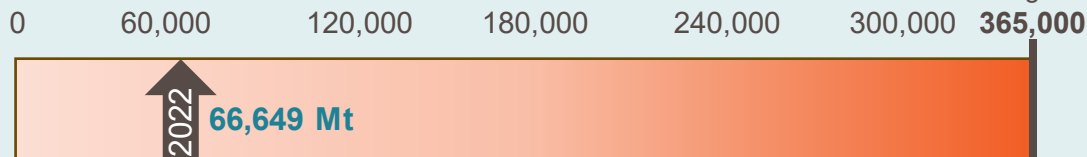
Equivalent All-Electric Homes Running Total

2030 Target



Annual GHG Emissions Saved from Building Electrification & Energy Efficiency

2030 Target

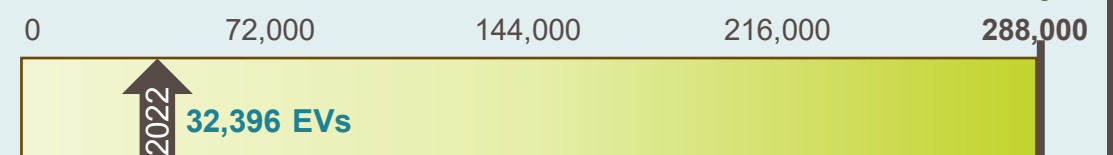


Transportation Electrification

Eligible residential households participating in EV rate credit	62%
Home charger/EV circuit installations incentivized	941
EV chargers installed through Clean Cars 4 All program	135
EV circuits installed for income-eligible customers	221

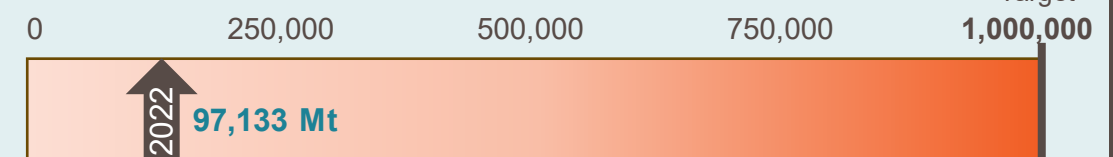
Electric Vehicles Running Total

2030 Target



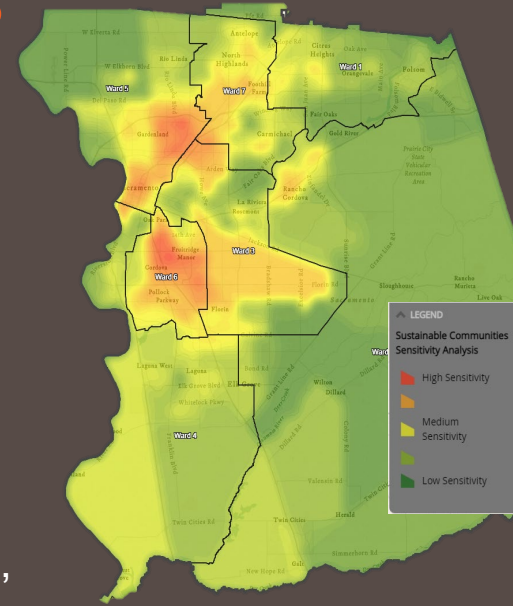
Annual GHG Emissions Saved from Electric Vehicles

2030 Target



Improving Equity for Under-Resourced Communities

- Launched the 3-year Community Impact Plan.
 - Underlines SMUD's commitment to making meaningful investments in under-resourced communities to ensure their participation in a clean energy future.
- Partnered with Grid Alternatives, Northern California Construction Training, and Cosumnes River College to expand workforce development programs in the region.
 - Provided education and training to over 3,000 people in a variety of skills and helped 446 individuals find higher paying, more secure jobs.
 - 75 participants and over 25 job placements resulted from Energy Careers Pathways training partnership in 2022.
- Designed My Energy Optimizer Partner+ offering to install up to 50 batteries to income-eligible participants, at no cost.
- Updated the Sustainable Communities Resource Priorities Map to include the Justice 40 Climate and Justice Economic Screening Tool, CalEnviroScreen 4.0 data, digital inclusion data, and English ability and linguistics Isolation information.



Conclusion:

We have met or exceeded SD-9 in 2022



Progress towards our 2030 zero carbon goal by the addition of new clean resources in 2022



Renewables Portfolio Standard on-track for current compliance period



Expanded support of distributed energy resources and energy efficiency/electrification, with equity in mind

Request the Board accept the 2022 SD-9 monitoring report