

Exhibit to Agenda Item #3

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

Board Policy Committee and Special SMUD Board of Directors Meeting
Wednesday, September 9, 2020, scheduled to begin at 5:30 p.m.

Virtual Meeting (online)

2019 SD-9 Board Monitoring Report

Current SD-9 Greenhouse Gas Emissions Targets

2.318 MMt by 2020

1.350 MMt by 2030

Net Zero by 2040

Sustainable Power and Renewables

Renewable Portfolio Standard
33% by 2020 60% by 2030

Voluntary Green Programs

Clean Distributed Generation

Behind the Meter Solar and
Batteries

Energy Efficiency and Demand Prog.

Energy efficiency

Building/Vehicle Electrification

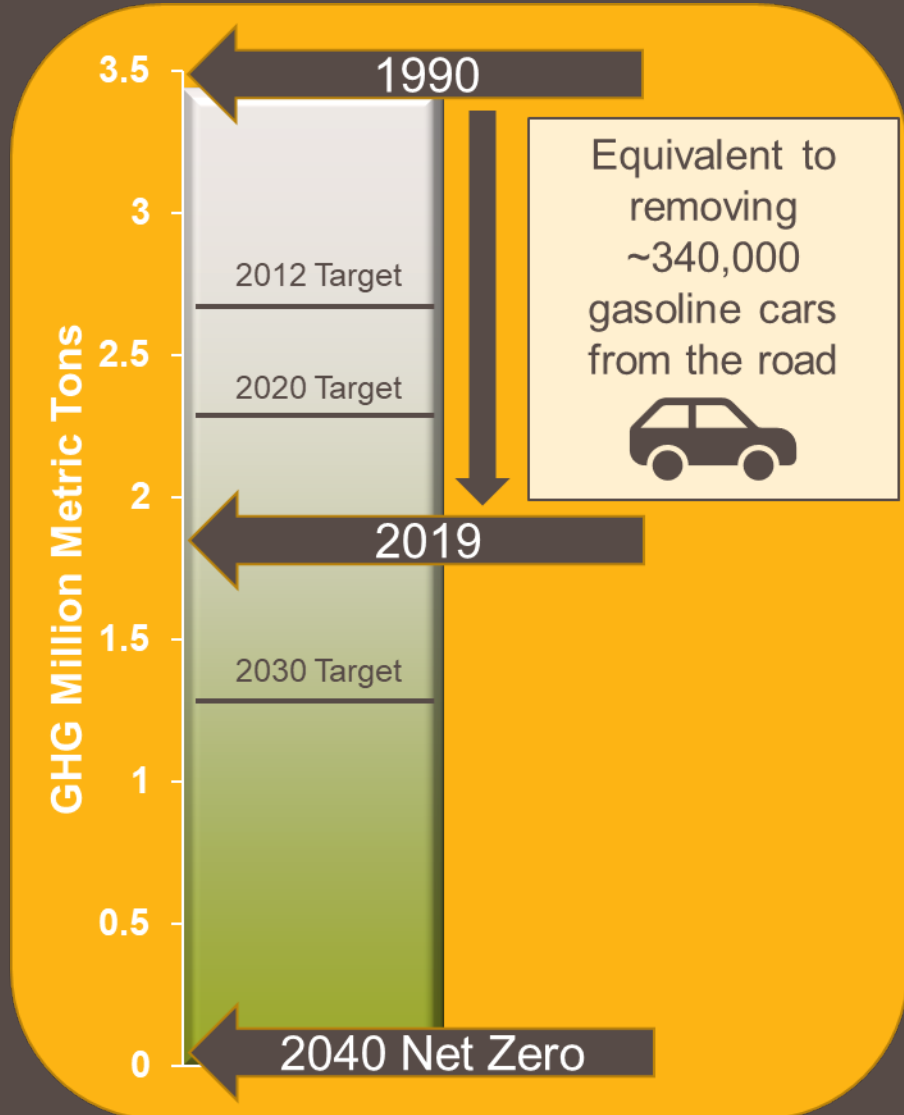
Demand Response

SMUD achieved all SD-9 objectives in 2019

Recent Policy Changes:

- January 2020 - Board approved SD-9 Energy Efficiency and Building Electrification carbon goals
- July 2020 - Board adopted Climate Emergency Resolution with an objective of carbon neutrality by 2030

2019 Performance: Greenhouse Gas (GHG) Targets and Goals



2019 SD-9 GHG Footprint & Near-Term Targets ¹	
Source	GHG Emissions (000 MT)
Net SMUD Carbon Emissions ²	1,696
Normalizing Adjustments ³	+158
2019 SMUD Normalized Emissions	1,854
2020 Target	2,318

¹ SMUD's emissions have been verified by an independent third party

² Net of wholesale sales

³ Adjustments for load, wind, hydro, and REC banking



2019 Performance: Energy Savings (Annual GWh)



Information
and Education

9.0

Equivalent to powering
1,000 Homes



Existing
Residential

41.3

Equivalent to powering
4,600 Homes



Existing
Commercial

59.7

Equivalent to powering
6,600 Homes



Commercial New
Construction

7.0

Equivalent to powering
775 Homes



Codes and
Standards

40.0

Equivalent to powering
4,445 Homes

SD-9 Goal for 2019

**151.3 GWh or
16,800 homes**

Total

**157.0 GWh or
17,420 homes**

2019 Performance: Renewable Procurement and Project Development

Renewable Portfolio Standard		
2019 Goal	31%	3,019 GWh Equivalent to powering 335,000 Homes
2019 Accomplishments	31%	3,019 GWh Equivalent to powering 335,000 Homes
2020 Goal (est.)	33%	3,169 GWh Equivalent to powering 352,000 Homes



Achieved 2019 goal

2019 Performance: Renewable Procurement and Project Development

New Projects				
Project Name	Type	MW	Equivalent Homes	Status
Grady	Wind	200	62,300	Online 2019
Hedge Battery	Battery	4 MW/8MWh	Peak demand of 800	Planning/Construction
NTUA Drew Solar	PV	100	30,000	Under Construction
Rancho Seco 2	PV	160	48,000	Under Construction
Sacramento Solar 1	PV+Battery	TBD	-	Planning
Sacramento Solar 2	PV	TBD	-	Planning
Solano 4	Wind	91	28,500	Development
South Fork Powerhouse	Small Hydro	3	1,500	Under Construction
Wildflower	PV	13	4,000	Under Construction
Total		571+	174,000+	

2019 Performance: Clean Distributed Generation and Storage

Customer Solar

Residential		Commercial		Totals	
Installed Systems	MW	Installed Systems	MW	Installed Systems	MW
4,197	18.33	32	2.58	4,229	20.91



Energy Storage Development

Residential Battery		Commercial Battery		Total	
Installed Systems	MW	Installed Systems	MW	Installed Systems	MW
226	1.51	5	1.15	231	2.66



We are also developing a 4 MW/8 MWh utility scale battery storage project to be procured in 2020 and are evaluating additional solar plus storage projects



Conclusion:

We have met or exceeded SD-9 in 2019



2019 normalized GHG emissions below the 2020 goal



2019 energy efficiency goals were exceeded



2019 Renewable Portfolio Standard was achieved



Expanded customer solar and batteries

Request the Board accept the SD-9 monitoring report