Sustainability & Mobility

Update on Climate Action Plan Annual Report and Dashboard

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The City of SAN DIEGO

Introduction

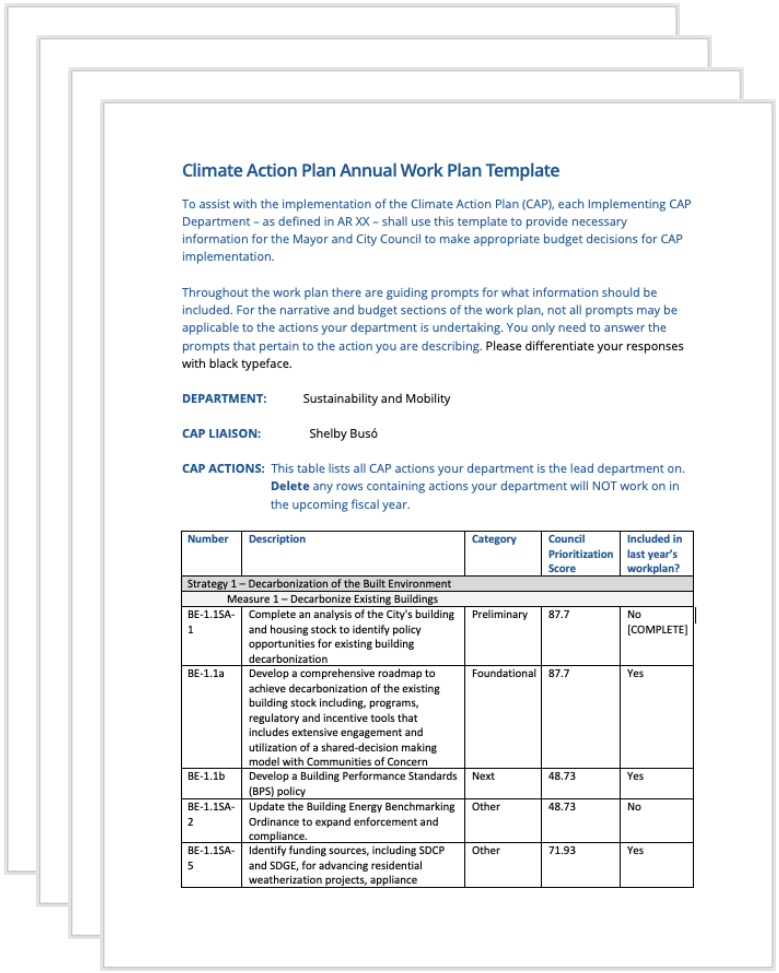
- The City's updated Climate Action Plan (CAP) was adopted in 2022
- It set an accelerated goal of achieving net-zero greenhouse gas emissions by 2035
- The plan consists of 6 strategies organized in 20 measures containing 190 actions
- Implementation requires the efforts of 11 implementing departments and 6 additional supporting departments (plus numerous other collaborating departments and external partners)

https://www.sandiego.gov/sites/default/files/san_diegos_2022_climate_action_plan_0.pdf

Citywide Collaboration

Implementing departments are accountable for their own CAP actions, which must be integrated into their many other duties. SuMo's primary responsibility is to oversee the progress of the CAP actions. It collaborates closely with department liaisons to ascertain resources, clarify equitable impact potential, and define success metrics for each action within the CAP. Departments furnish this information through:

- Annual department work plans
- Semi-annual data requests for success metrics and GHG inventory measures



Climate Action Plan Annual Work Plan Template

To assist with the implementation of the Climate Action Plan (CAP), each Implementing CAP Department – as defined in AR XX – shall use this template to provide necessary information for the Mayor and City Council to make appropriate budget decisions for CAP implementation.

Throughout the work plan there are guiding prompts for what information should be included. For the narrative and budget sections of the work plan, not all prompts may be applicable to the actions your department is undertaking. You only need to answer the prompts that pertain to the action you are describing. Please differentiate your responses with black typeface.

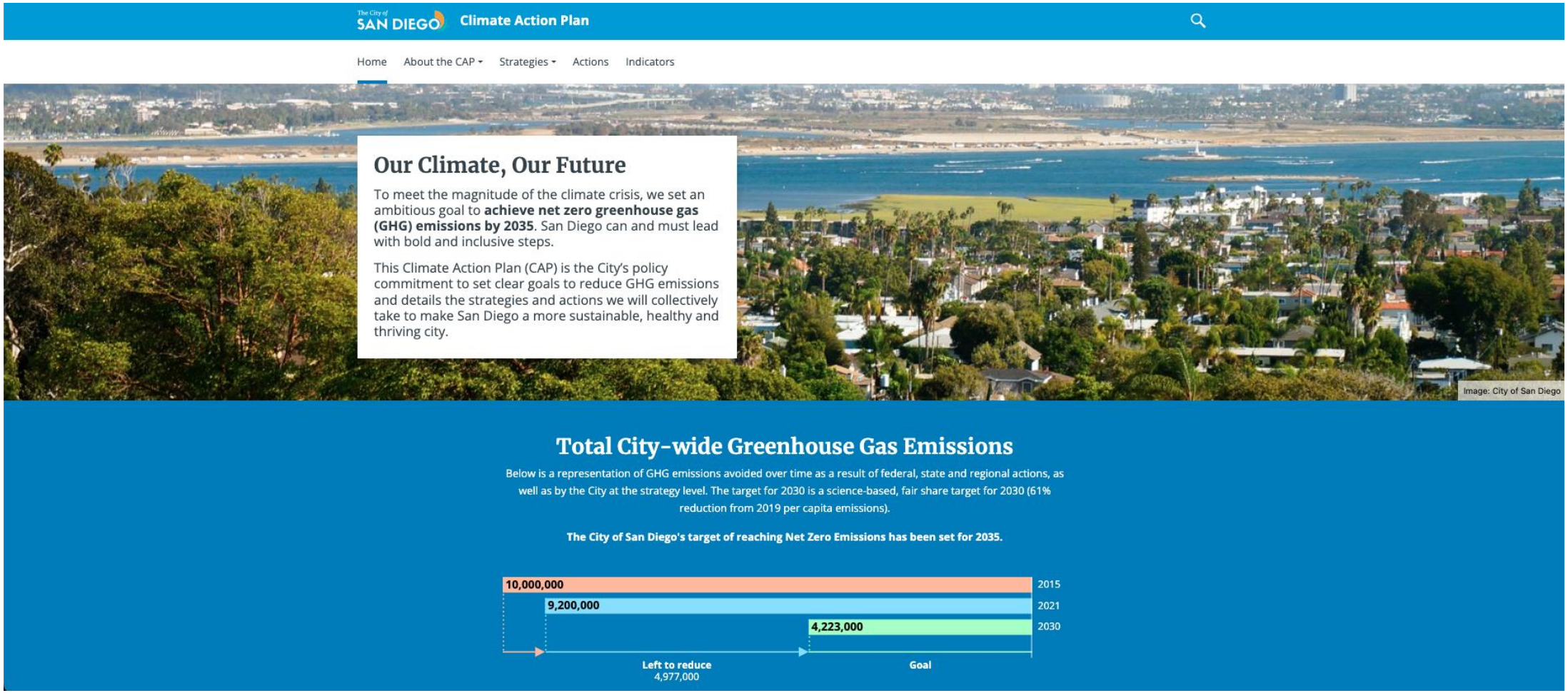
DEPARTMENT: Sustainability and Mobility

CAP LIAISON: Shelby Busó

CAP ACTIONS: This table lists all CAP actions your department is the lead department on. **Delete** any rows containing actions your department will NOT work on in the upcoming fiscal year.

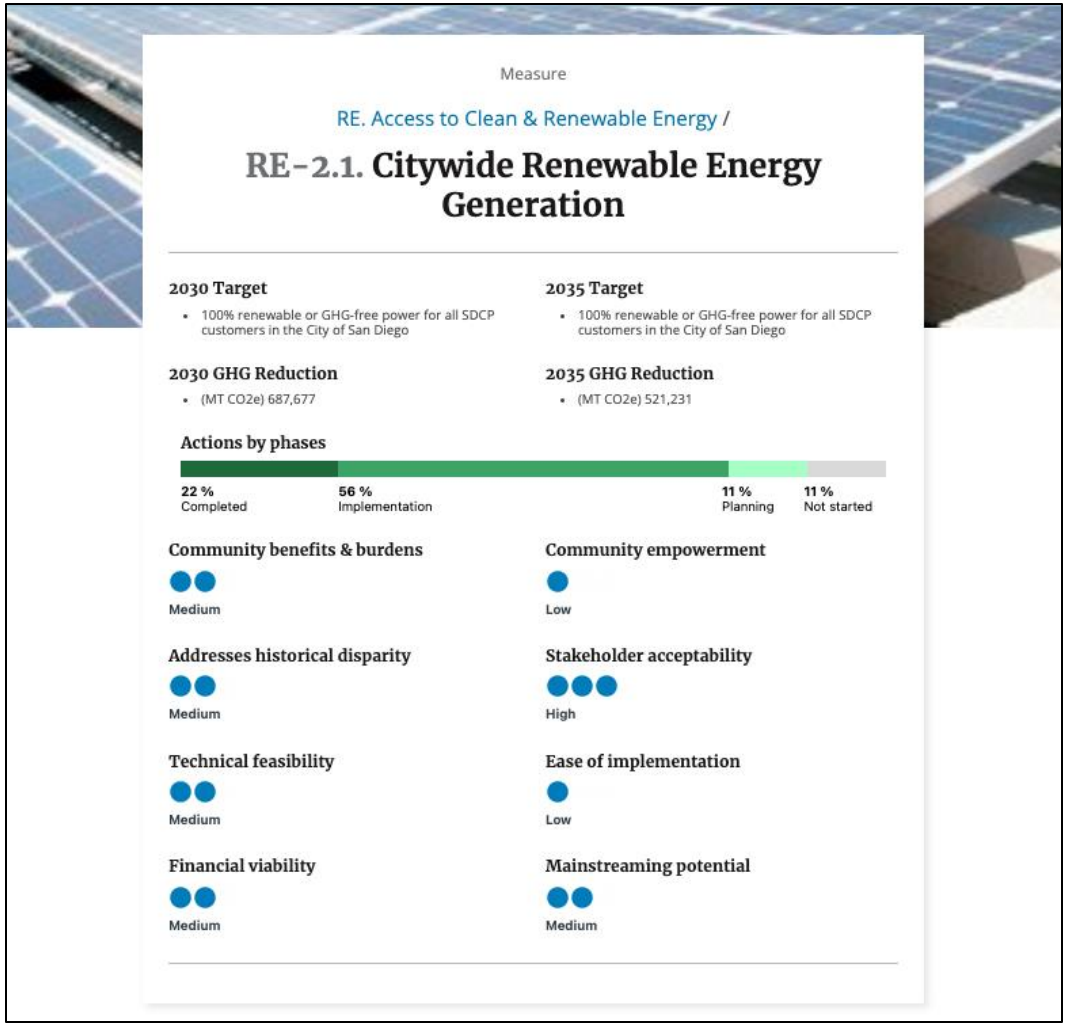
Number	Description	Category	Council Prioritization Score	Included in last year's workplan?
Strategy 1 – Decarbonization of the Built Environment				
Measure 1 – Decarbonize Existing Buildings				
BE-1.1SA-1	Complete an analysis of the City's building and housing stock to identify policy opportunities for existing building decarbonization	Preliminary	87.7	No [COMPLETE]
BE-1.1a	Develop a comprehensive roadmap to achieve decarbonization of the existing building stock including, programs, regulatory and incentive tools that includes extensive engagement and utilization of a shared-decision making model with Communities of Concern	Foundational	87.7	Yes
BE-1.1b	Develop a Building Performance Standards (BPS) policy	Next	48.73	Yes
BE-1.1SA-2	Update the Building Energy Benchmarking Ordinance to expand enforcement and compliance.	Other	48.73	No
BE-1.1SA-5	Identify funding sources, including SDCP and SDGE, for advancing residential weatherization projects, appliance	Other	71.93	Yes

CAP Dashboard



https://climatedashboard.sandiego.gov

Goals and implementation progress are easy to follow



Measure

RE. Access to Clean & Renewable Energy /

RE-2.1. Citywide Renewable Energy Generation

2030 Target
- 100% renewable or GHG-free power for all SDCP customers in the City of San Diego

2035 Target
- 100% renewable or GHG-free power for all SDCP customers in the City of San Diego

2030 GHG Reduction
- (MT CO2e) 687,677

2035 GHG Reduction
- (MT CO2e) 521,231

Actions by phases

22 % Completed | 56 % Implementation | 11 % Planning | 11 % Not started

Community benefits & burdens
Medium

Community empowerment
Low

Addresses historical disparity
Medium

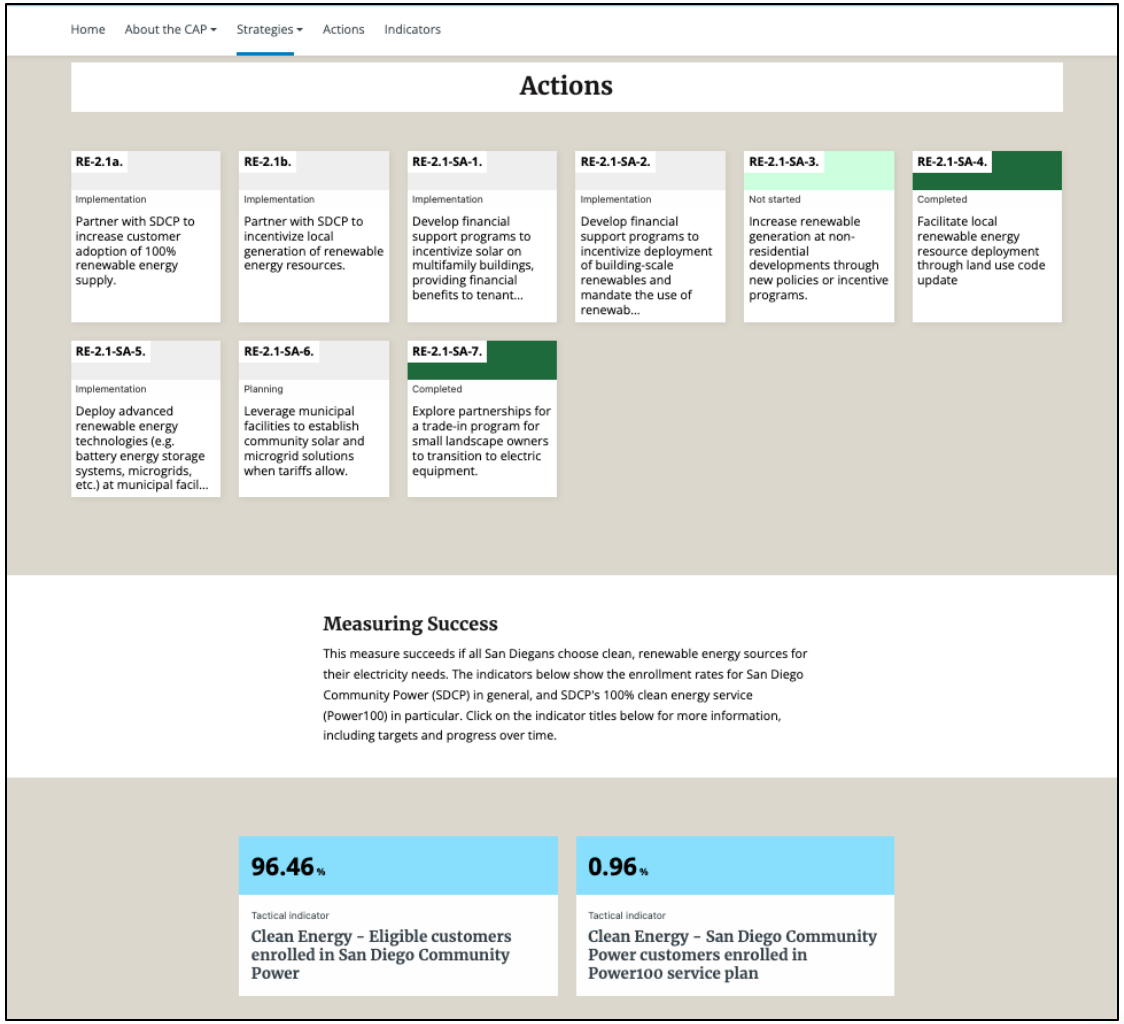
Stakeholder acceptability
High

Technical feasibility
Medium

Ease of implementation
Low

Financial viability
Medium

Mainstreaming potential
Medium



Home | About the CAP | Strategies | Actions | Indicators

Actions

RE-2.1a. Implementation
Partner with SDCP to increase customer adoption of 100% renewable energy supply.

RE-2.1b. Implementation
Partner with SDCP to incentivize local generation of renewable energy resources.

RE-2.1-SA-1. Implementation
Develop financial support programs to incentivize solar on multifamily buildings, providing financial benefits to tenant...

RE-2.1-SA-2. Implementation
Develop financial support programs to incentivize deployment of building-scale renewables and mandate the use of renewab...

RE-2.1-SA-3. Not started
Increase renewable generation at non-residential developments through new policies or incentive programs.

RE-2.1-SA-4. Completed
Facilitate local renewable energy resource deployment through land use code update

RE-2.1-SA-5. Implementation
Deploy advanced renewable energy technologies (e.g. battery energy storage systems, microgrids, etc.) at municipal facil...

RE-2.1-SA-6. Planning
Leverage municipal facilities to establish community solar and microgrid solutions when tariffs allow.

RE-2.1-SA-7. Completed
Explore partnerships for a trade-in program for small landscape owners to transition to electric equipment.

Measuring Success

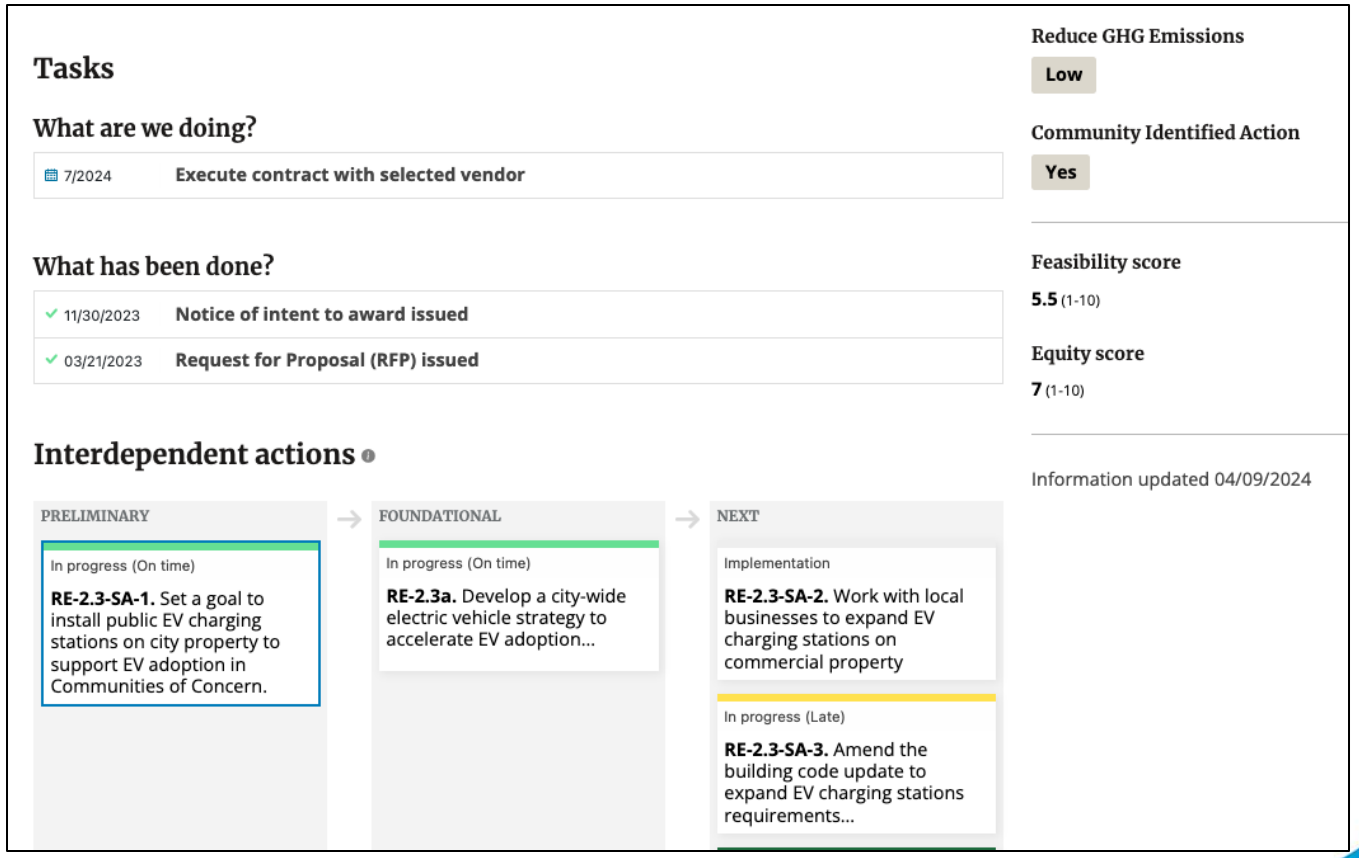
This measure succeeds if all San Diegans choose clean, renewable energy sources for their electricity needs. The indicators below show the enrollment rates for San Diego Community Power (SDCP) in general, and SDCP's 100% clean energy service (Power100) in particular. Click on the indicator titles below for more information, including targets and progress over time.

96.46%
Tactical indicator
Clean Energy - Eligible customers enrolled in San Diego Community Power

0.96%
Tactical indicator
Clean Energy - San Diego Community Power customers enrolled in Power100 service plan

Detailed action pages promote understanding

- Includes explanation and additional materials
- Shows task list with due dates
- Places action in CAIP context



Metrics for Success (Indicators)

Home | About the CAP | Strategies | Actions | Indicators

As a list | As insights

Name	Type	Strategies	Updated	Value
ESD - Citywide solid waste diversion rate	Operational indicator	Municipal Waste Reduction	2022	67 %
ESD - Landfill gas capture rate	Operational indicator	Municipal Waste Reduction	2022	75 %
Fleet Municipal ZEV Vehicles	Operational indicator	Increase Municipal Zero Emission Vehicles		-
PUD - Per capita water use	Operational indicator	Resilient Infrastructures and Healthy Ecosystems	2021	105 gal/capita/day
Streets - Bikeways	Operational indicator	Mobility & Land Use		-
Streets - Dedicated Bus Lanes Completed	Operational indicator	Mobility & Land Use		-
Streets - Number of Roundabouts and Traffic Circles Installed	Operational indicator	Mobility & Land Use		-
Streets - Sidewalks	Operational indicator	Mobility & Land Use		-
Streets - Traffic Signal Lights Retimed	Operational indicator	Mobility & Land Use		-
Trees - Number of new street trees planted	Operational indicator	Tree canopy	2021	1,707
Clean Energy - Eligible customers enrolled in San Diego Community Power	Tactical indicator	Citywide Renewable Energy Generation	2023	96.46 %
Clean Energy - San Diego Community Power customers enrolled in Power100 service plan	Tactical indicator	Citywide Renewable Energy Generation	2023	0.96 %

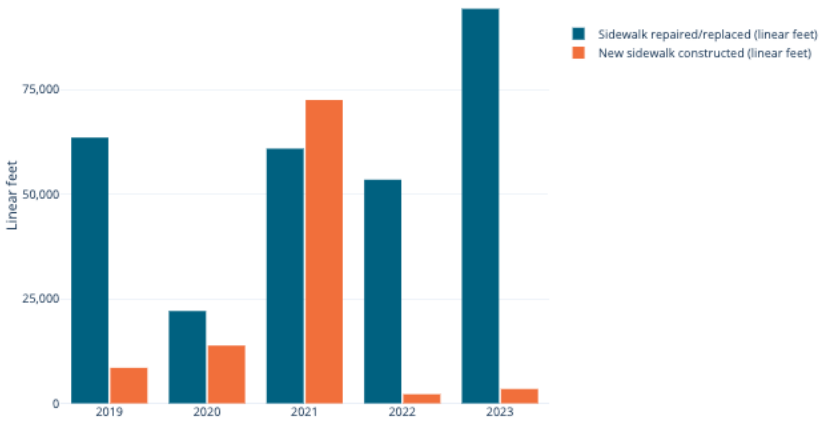
Indicators

Streets – Sidewalks

Operational indicator

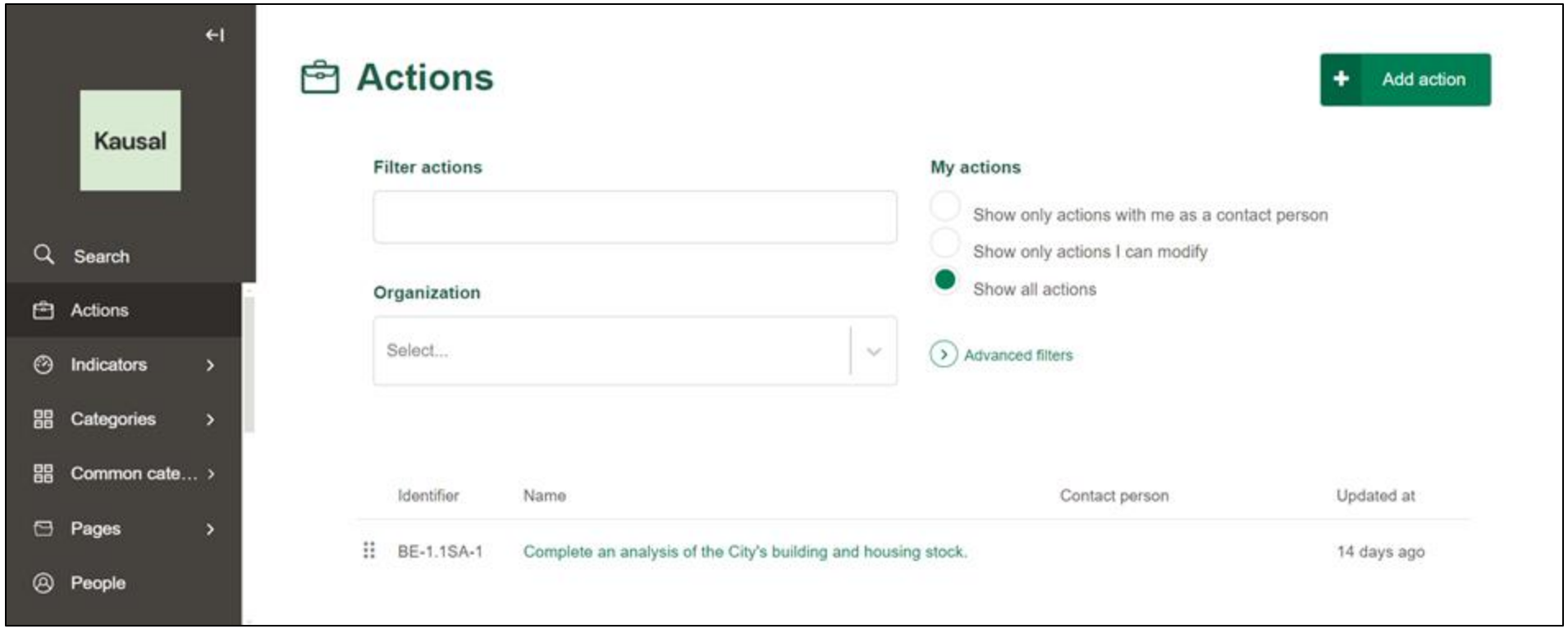
This indicator shows the annual totals of sidewalk installation and repair (in linear feet). Totals include work done by City crews and contractor crews.

Sidewalks



Year	Sidewalk repaired/replaced (linear feet)	New sidewalk constructed (linear feet)
2019	63,535	8,500
2020	22,074	13,823
2021	60,900	72,522.80
2022	53,469	2,190

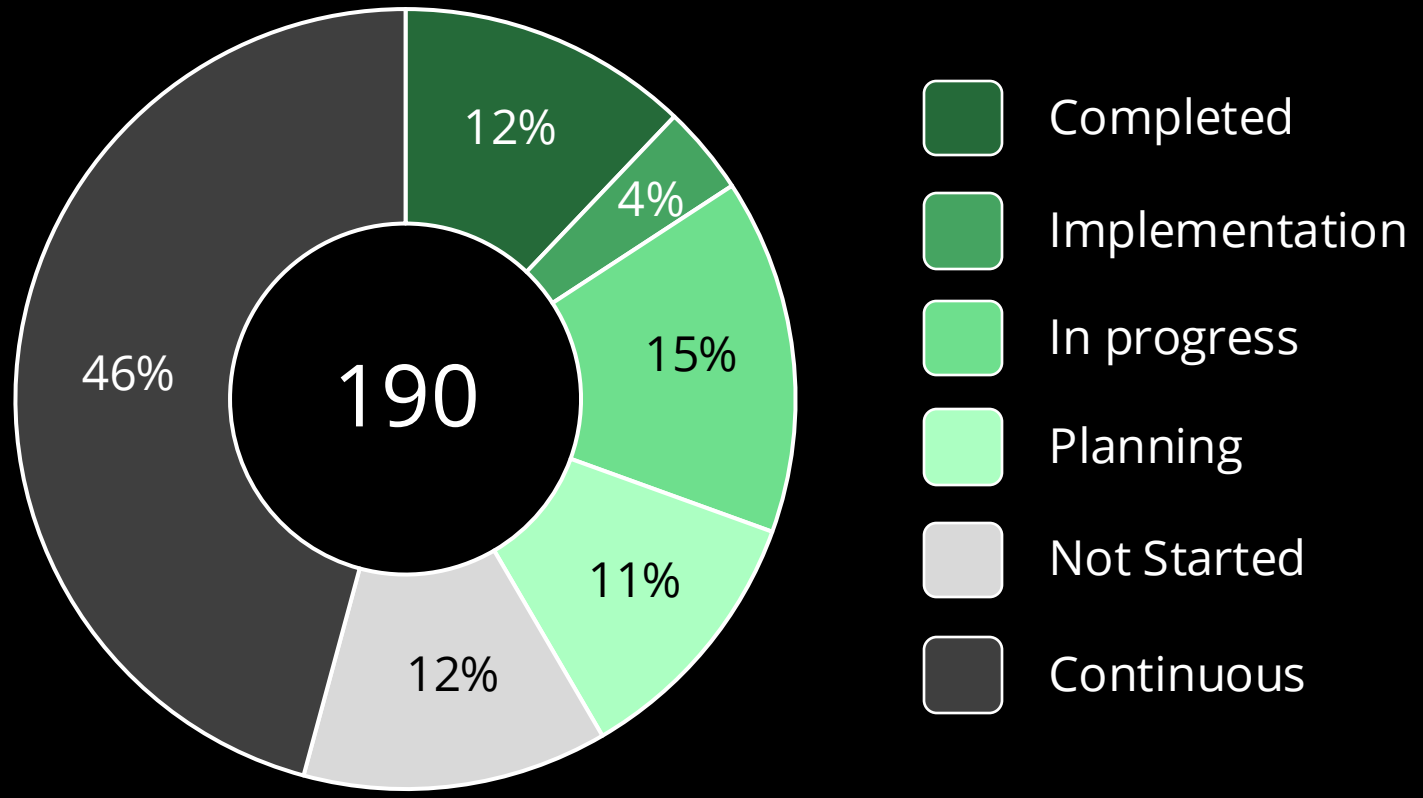
Data Collection and Action Updates



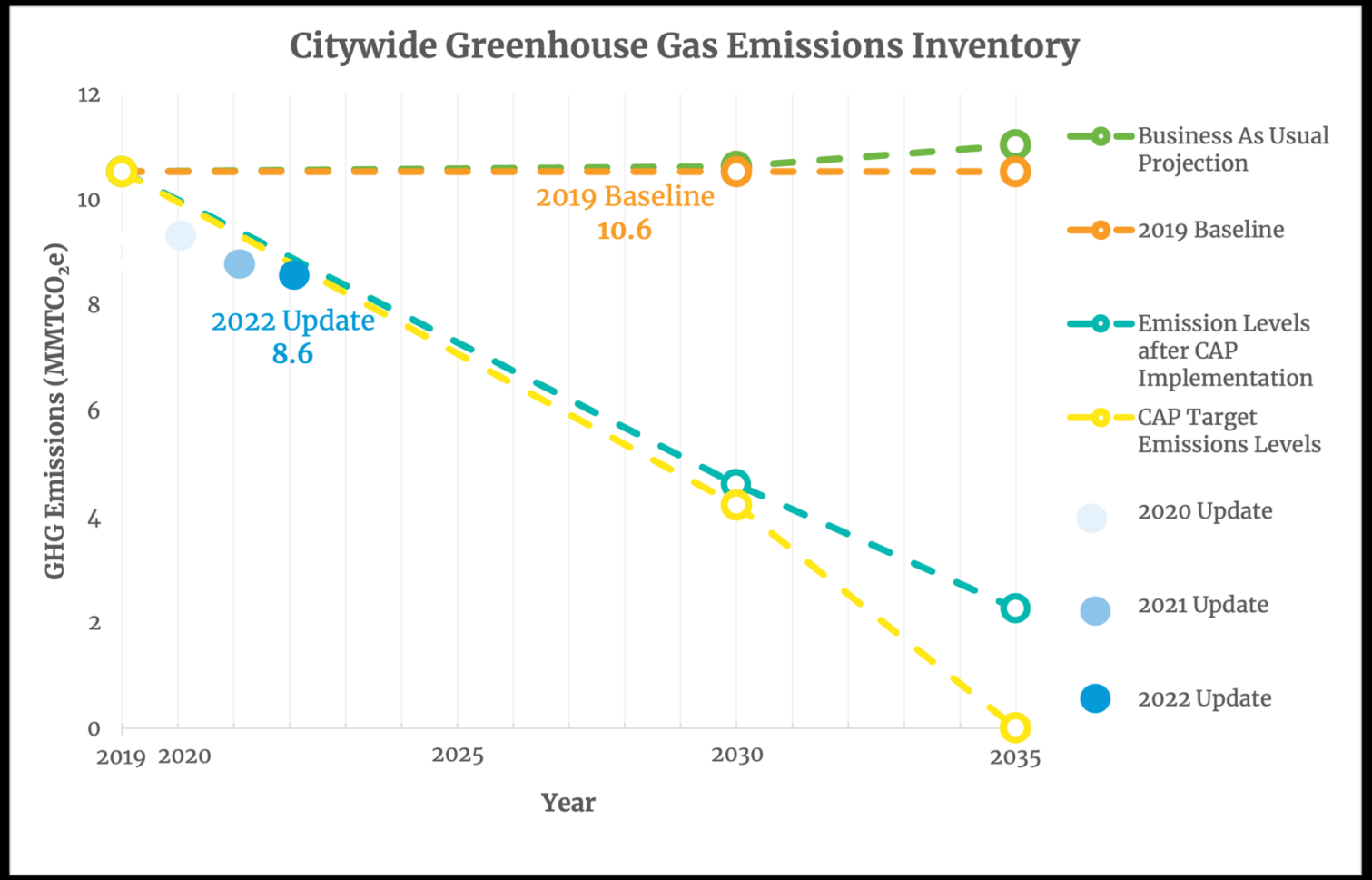
Automated reminders will go to CAP department liaisons when task deadlines approach or when data entry is due (metrics tracking; the GHG inventory)

Implementation Progress

- Many CAP actions are continuous in nature (e.g., tree trimming and maintenance; capture landfill methane gas emissions) and therefore do not have an end date.
- The implementation phase of some other actions will last beyond the current CAP (e.g., energy efficiency retrofits at municipal facilities)



2022 GHG Inventory – Total Emissions



2022 GHG Inventory – Per Capita Emissions

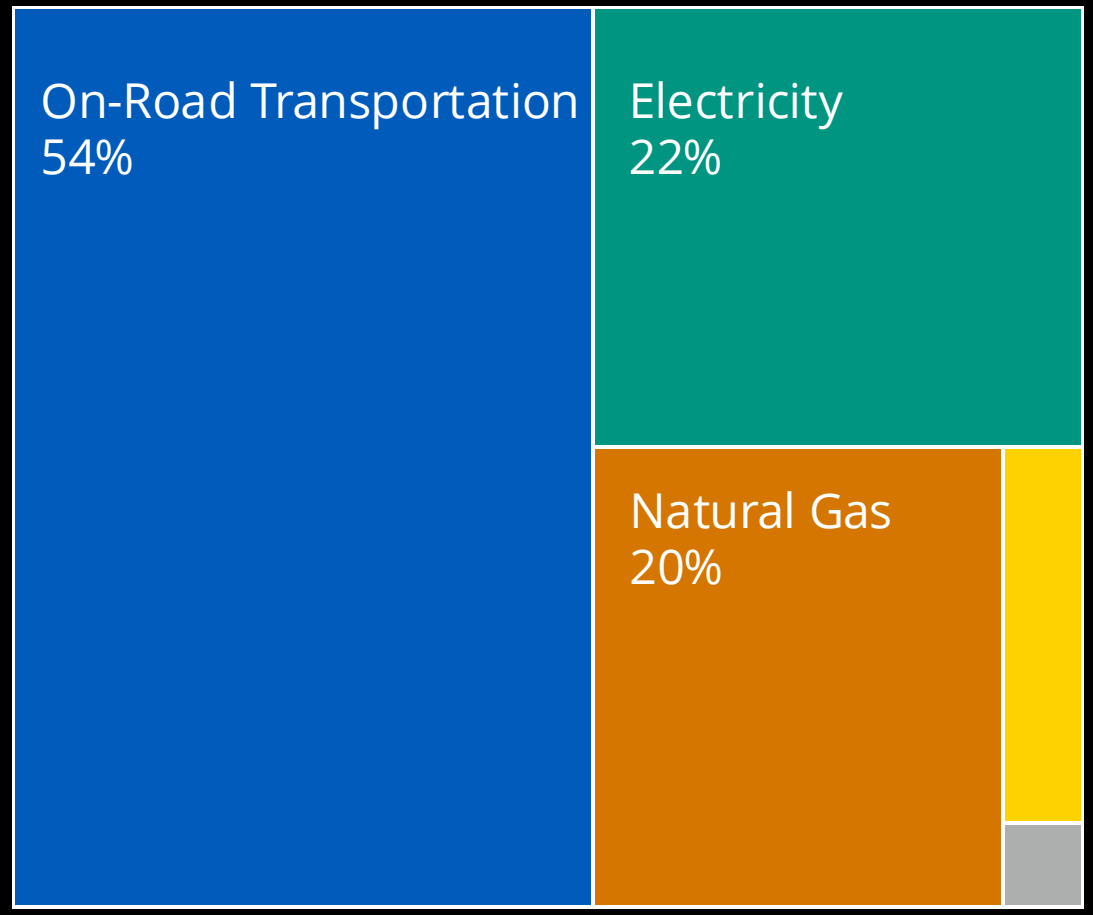
TABLE 2: 2019-2022 PER CAPITA GHG EMISSIONS				
Year	**2019 Emissions**	**2020 Emissions**	**2021 Emissions**	**2022 Emissions**
Total Emissions ($MMTCO_2e$)	10.60	9.27	8.77	8.55
Total Population	1,420,571	1,380,448	1,371,832	1,374,790
Per Capita GHG Emissions ($MTCO_2e$ per capita)	7.46	6.71	6.39	6.22

2019 population and housing estimates are based on the 2010 census benchmark, and 2020 and 2021 population and housing estimates are based on the 2020 census benchmark.

MT CO2e = metric tons of carbon dioxide equivalent

Per capita emissions based on six emission categories only and cannot be compared with California statewide per capita emissions or per capita emissions targets.
2019 population is based on 2010 census benchmark. 2020, 2021 and 2022 population and housing estimates are based on 2020 census benchmark.
Energy Policy Initiatives Center, University of San Diego 2024

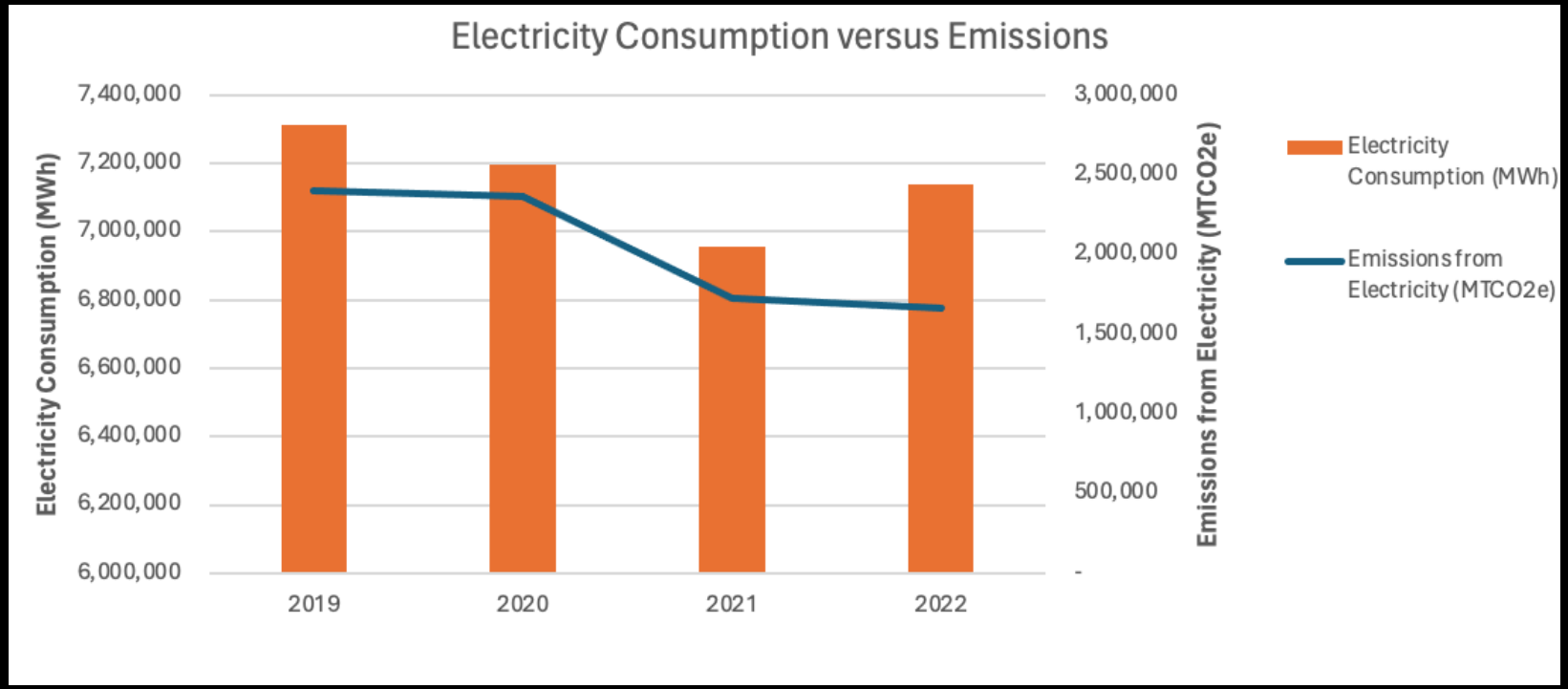
San Diego GHG Emissions by Sector



Relative emissions per sector from 2019-2021

Electricity

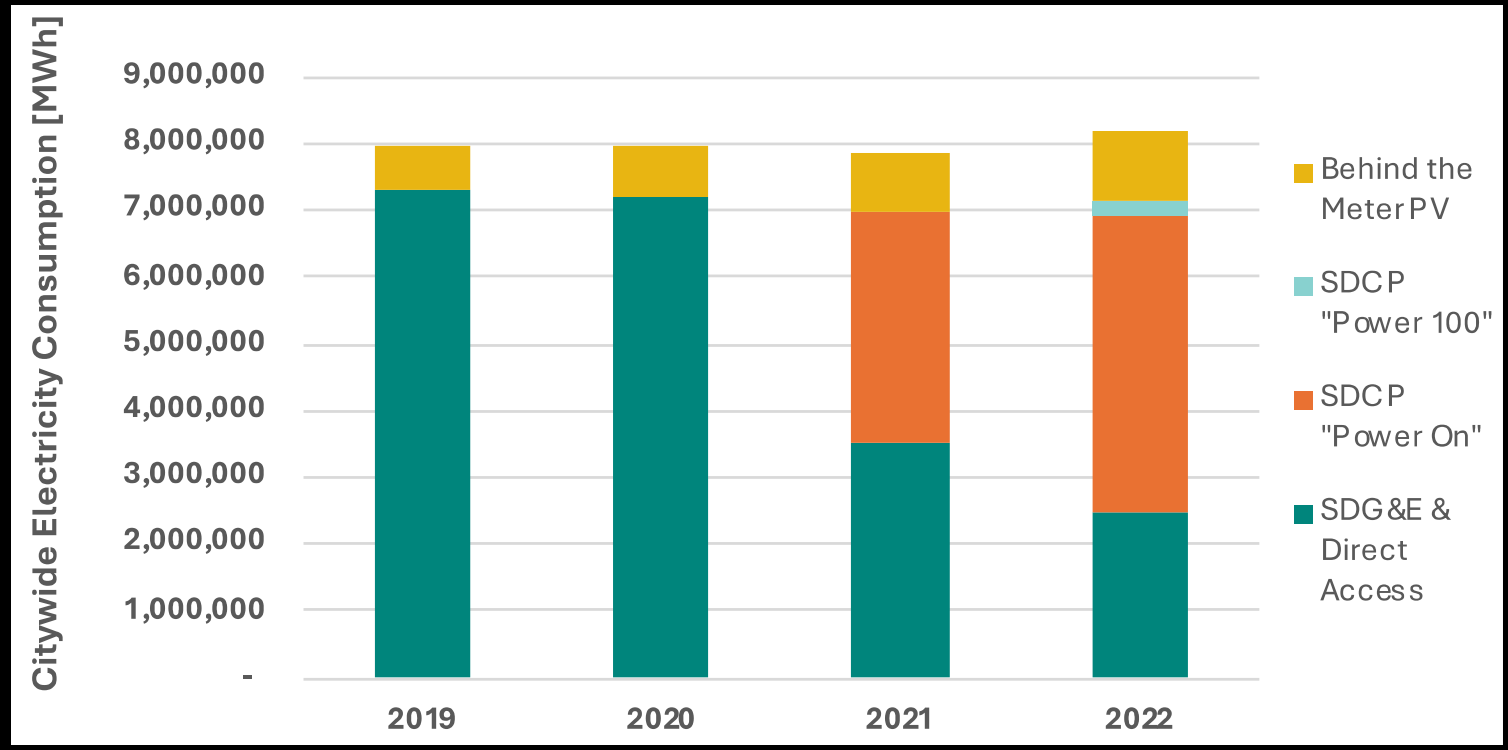
Despite an increase in electricity use in 2022, GHG emissions associated with that consumption did not increase



Electricity

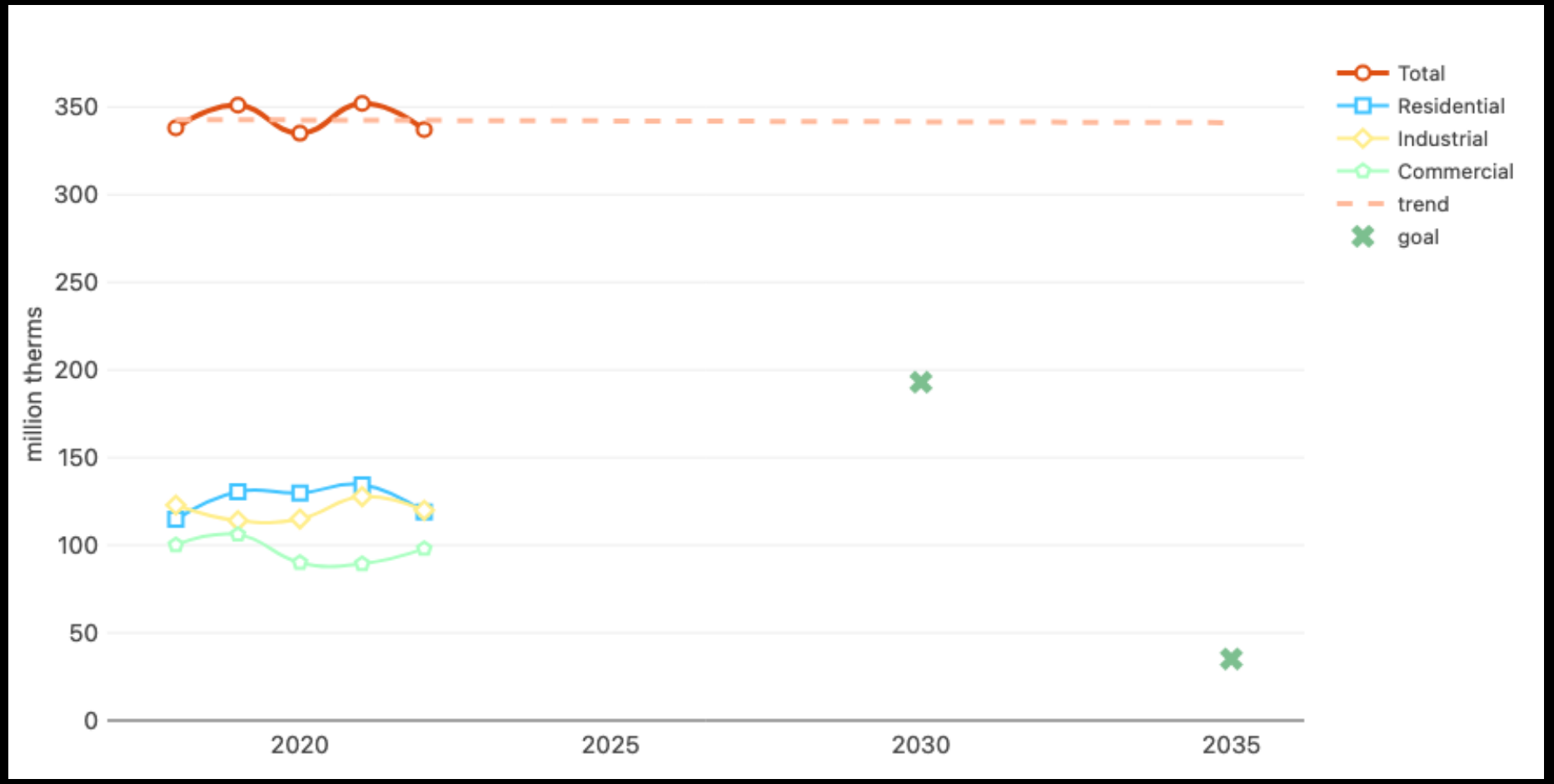
The increase in clean, renewable energy sources in San Diego's electricity supply led to reduced GHG emissions despite increased consumption

FIGURE 11: CITYWIDE ENERGY CONSUMPTION FROM SDG&E, SDCP, BEHIND METER PV [2019–2022]



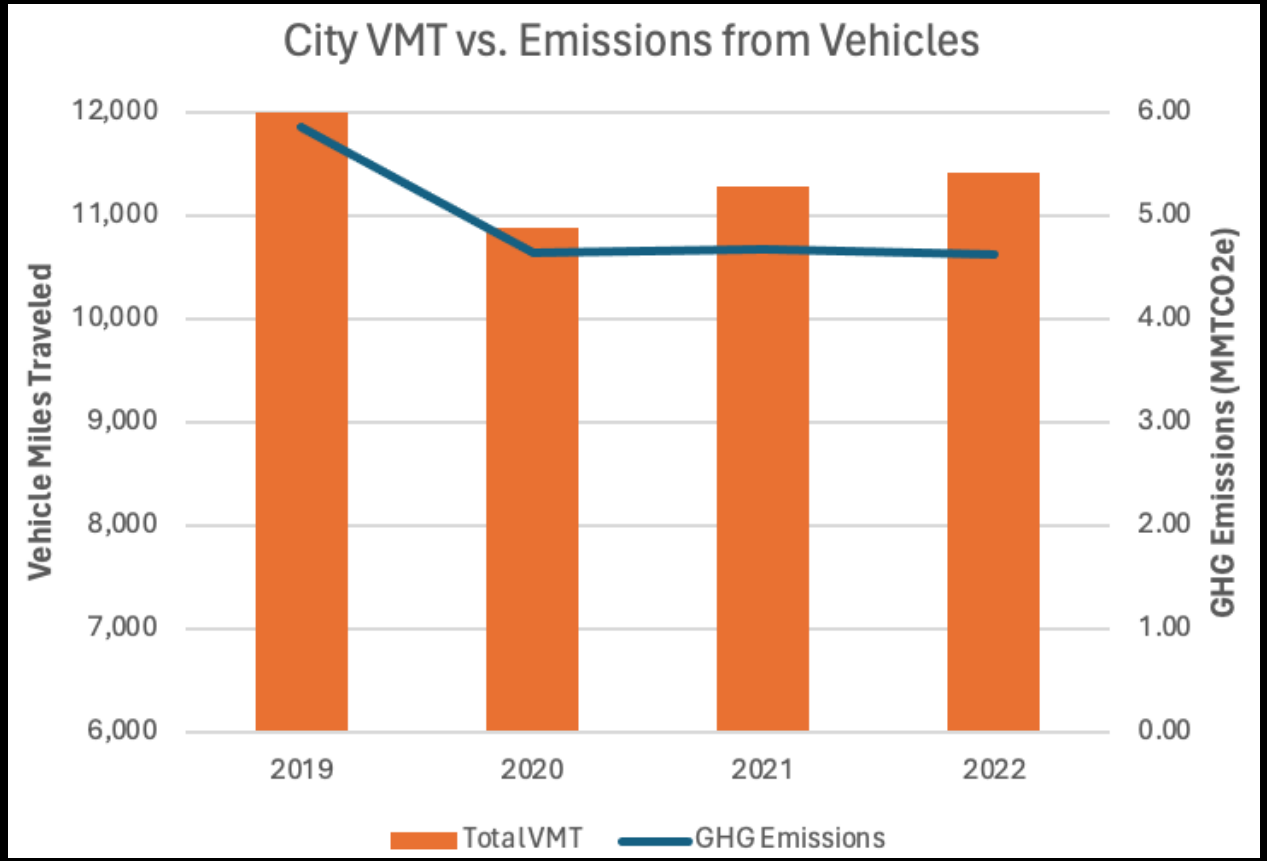
Natural Gas

Decarbonization - Natural Gas Consumption Citywide (SDG&E sales)



On-Road Transportation

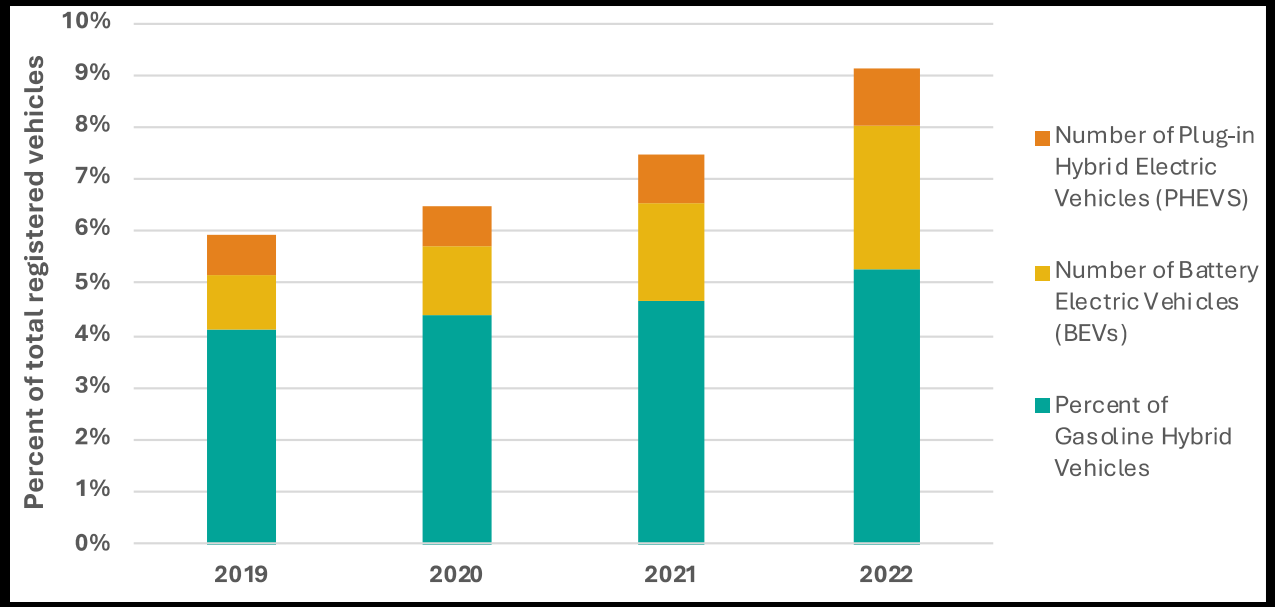
Citywide vehicle miles traveled (VMT) dropped during the COVID year (2020) but have increased steadily in the two following years. Similar to what was seen in the electricity sector, due to reduction in carbon intensity per mile, emissions from on-road transportation are lower in 2022 despite the increase in VMT since 202



On-Road Transportation

The reduced carbon intensity per mile for on-road transportation is due to the increased adoption of hybrid and electric vehicles in San Diego.

FIGURE 14: PERCENT OF HYBRID AND ELECTRIC VEHICLES IN SAN DIEGO COUNTY [2019–2022]



On-Road Transportation

TABLE 14: PERCENT OF MODE SHARE FOR EMPLOYEE COMMUTE		
Mode	**2019**	**2023**
Drive Alone	78	75
Carpool	12	13
Transit	6	7
Walk	2	3
Bike or E-Bike	2	3
TNC or Taxi	0	<1%
SANDAG Employment Centers 1.0 and 2.0		

FIGURE 17: REGIONAL TRANSIT BOARDINGS AND PASSENGER MILES [2016–2022]

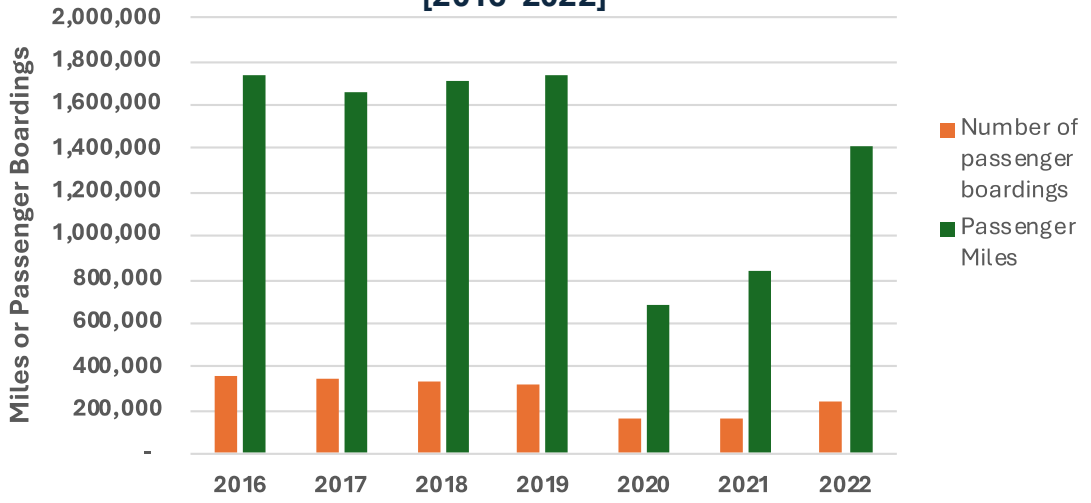
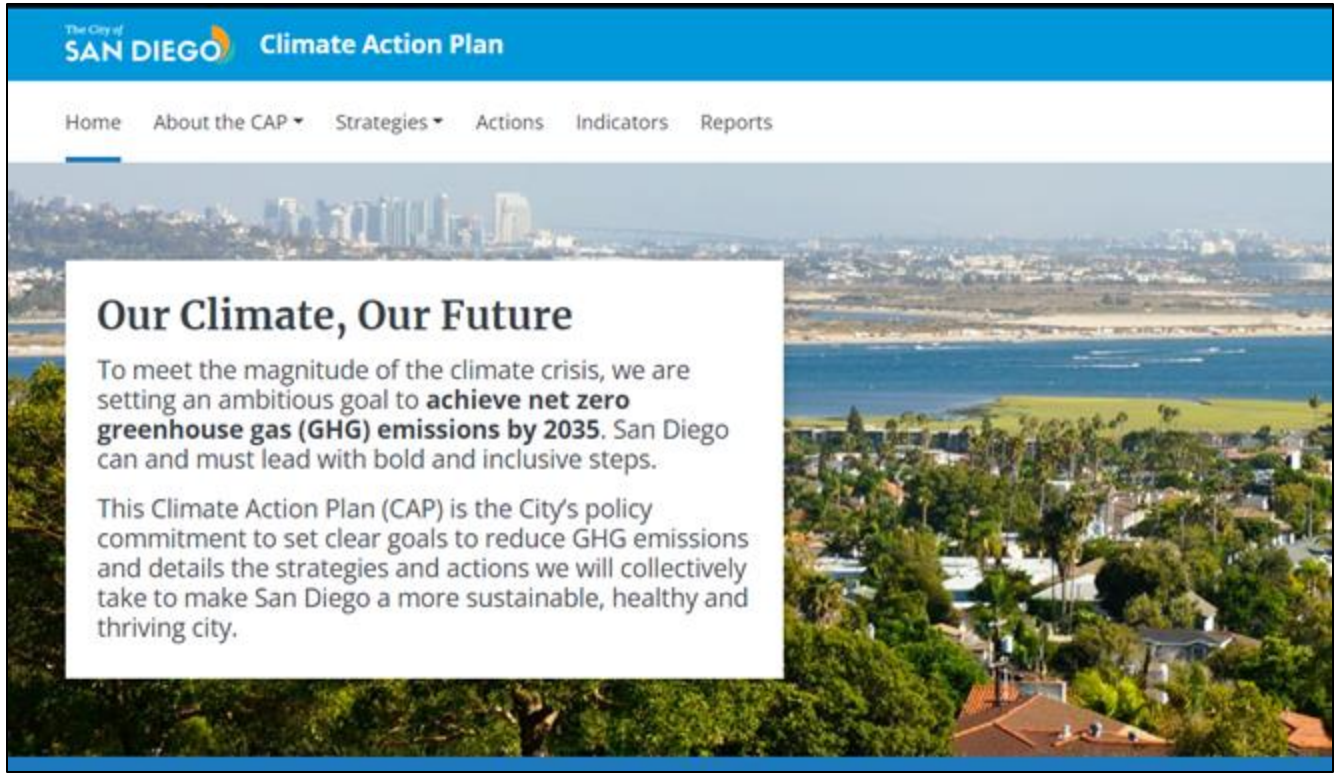


TABLE 16: REGIONAL REMOTE WORK SURVEY			
Time Era	**Pre-Pandemic**	**During Pandemic**	**Post-Pandemic**
Percentage of SD County Employees Able to Partially Work from Home	25%	54%	44%
Average Number of Days per Week Worked Fully from Home	0.6	1.9	1.2
SANDAG Survey of Businesses and Employees			

Summary and Next Steps

- The 2023 CAP Annual Report and 2022 GHG inventory will be released in June and posted to the dashboard
- Dashboard feedback is welcome; use the **"give feedback"** link at the bottom of any page
- 2025 Work Plans



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