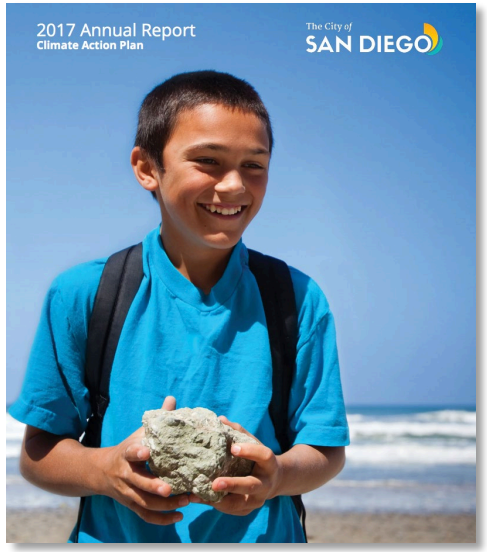
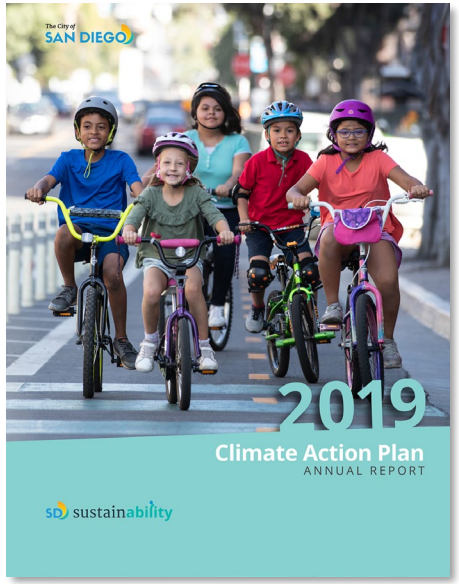
Sustainability Department

Climate Action Plan 2020 Annual Report

Erik Caldwell, Chief Sustainability Officer, Director
Ashley Rosia-Tremonti, Program Manager
Environment Committee • March 18th, 2021

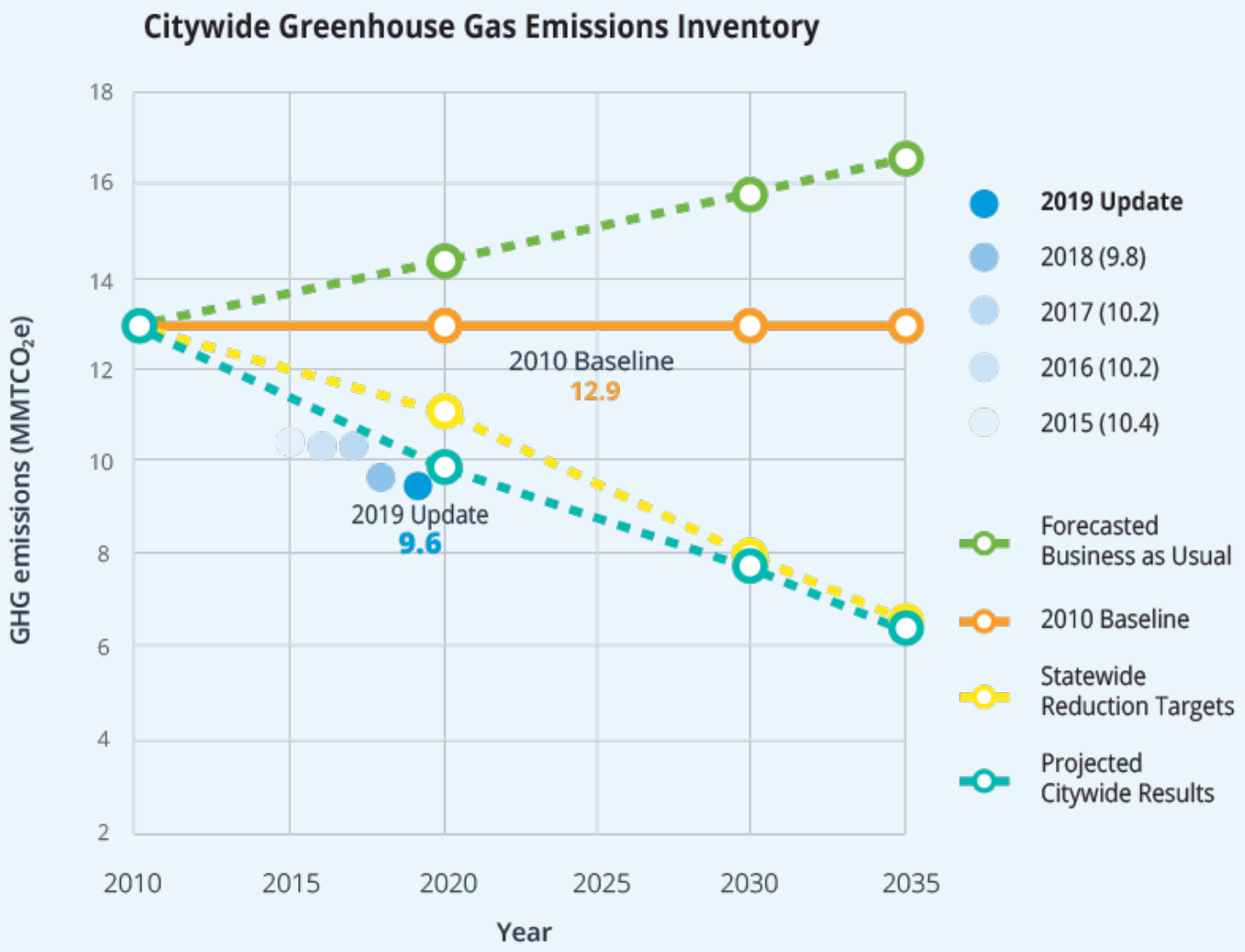
The City of SAN DIEGO





sustainability

www.SanDiego.gov/2020CAP

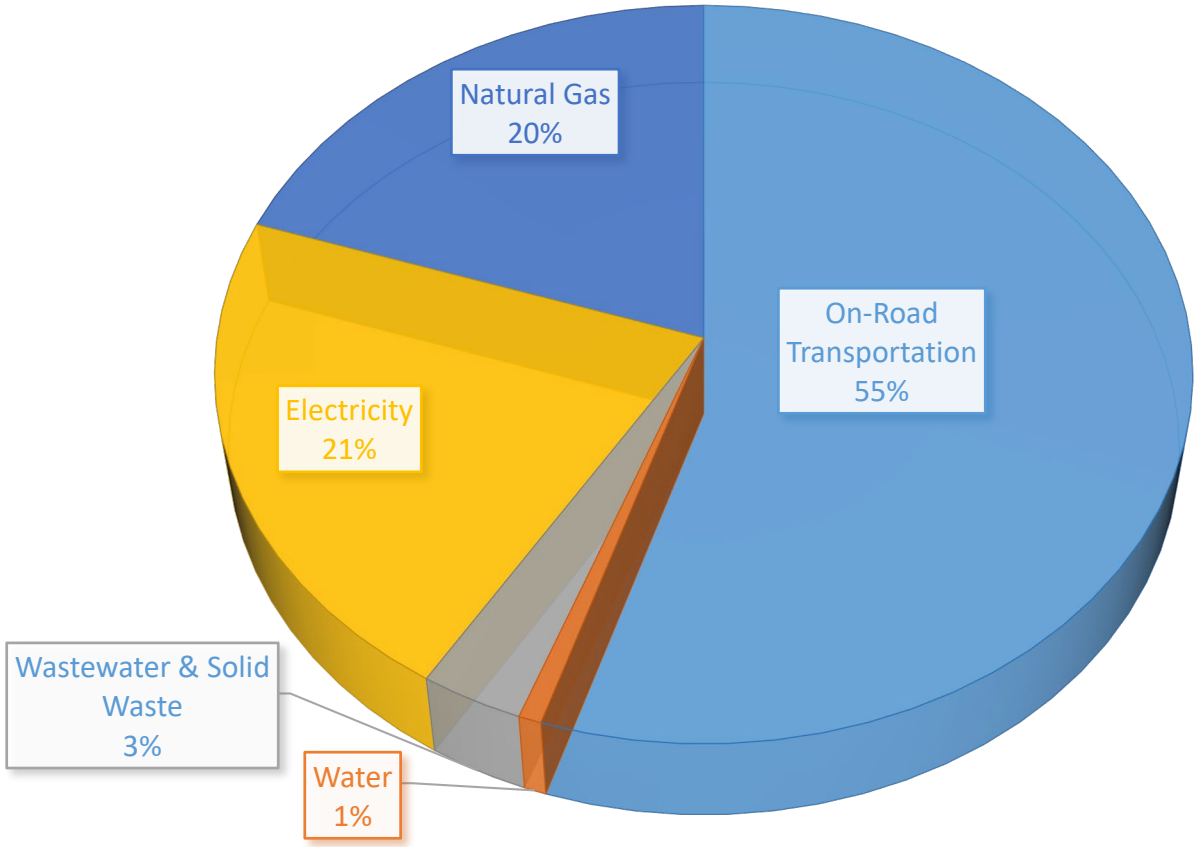


25%

GHG emissions since 2010

2019 CITY OF SAN DIEGO GREENHOUSE GAS EMISSIONS

SOURCE: 2020 CLIMATE ACTION PLAN ANNUAL REPORT



Energy & Water Efficiency

Strategy 1: Energy and Water Efficiency

U.N. SUSTAINABLE DEVELOPMENT GOALS

Make Your Mark 2020

BUILDINGS, EMPOWERED

55%
Multifamily Compliance Rate

45%
Commercial Compliance Rate

48%
Overall Compliance Rate

SDGE
A Sempra Energy utility®

Clean & Renewable Energy

Strategy 2: Clean and Renewable Energy

U.N. SUSTAINABLE DEVELOPMENT GOALS

SAN DIEGO COMMUNITY POWER

PROGRESS

96
Electric vehicles in fleet

57 electric vehicle charging stations are energized and ready to use

86
CNG trash trucks

Strategy 2: Clean and Renewable Energy

U.N. SUSTAINABLE DEVELOPMENT GOALS

Impact of Method Change (AB1110) for Power Source Disclosure (PSD) on GHG Emissions

	OPTION 1: **Current:** • 2018 emission intensity as proxy for 2019 • **43% renewables**	**OPTION 2:** **Adjust with 2019 PSD** • **39% renewables** in SDG&E supply • includes RECs	**OPTION 3:** **Adjust with 2019 PSD** • **31% renewables** in SDG&E supply • Excludes RECs
Electricity Related GHG	2,069,000	2,155,000	2,369,000
Total GHG Emissions	9,646,000	9,732,000	9,946,000

Biking, Walking, Transit & Land Use

Strategy 3: Bicycling, Walking, Transit and Land Use

U.N. SUSTAINABLE DEVELOPMENT GOALS

PROGRESS

8,500
linear feet of sidewalk constructed

64
signals retimed

47.3
miles of bike lanes added or improved

Better by Bike

https://www.sandiego.gov/better-by-bike

Zero Waste

Strategy 4: Zero Waste

U.N. SUSTAINABLE DEVELOPMENT GOALS

7 AFFORDABLE AND CLEAN ENERGY
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
11 SUSTAINABLE CITIES AND COMMUNITIES
12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION
17 PARTNERSHIPS FOR THE GOALS

PROGRESS

65%
of waste is diverted from the landfill

74%
of methane gas captured from the landfill

99.9%
of methane gas captured at the Point Loma Wastewater Treatment Plant

Resiliency

Strategy 5: Resiliency

U.N. SUSTAINABLE DEVELOPMENT GOALS

3 GOOD HEALTH AND WELL-BEING
11 SUSTAINABLE CITIES AND COMMUNITIES
13 CLIMATE ACTION
17 PARTNERSHIPS FOR THE GOALS

PROGRESS

1,045
trees planted

25,256
trees trimmed/ maintained

OUR CLIMATE OUR FUTURE
Climate Resilient San Diego

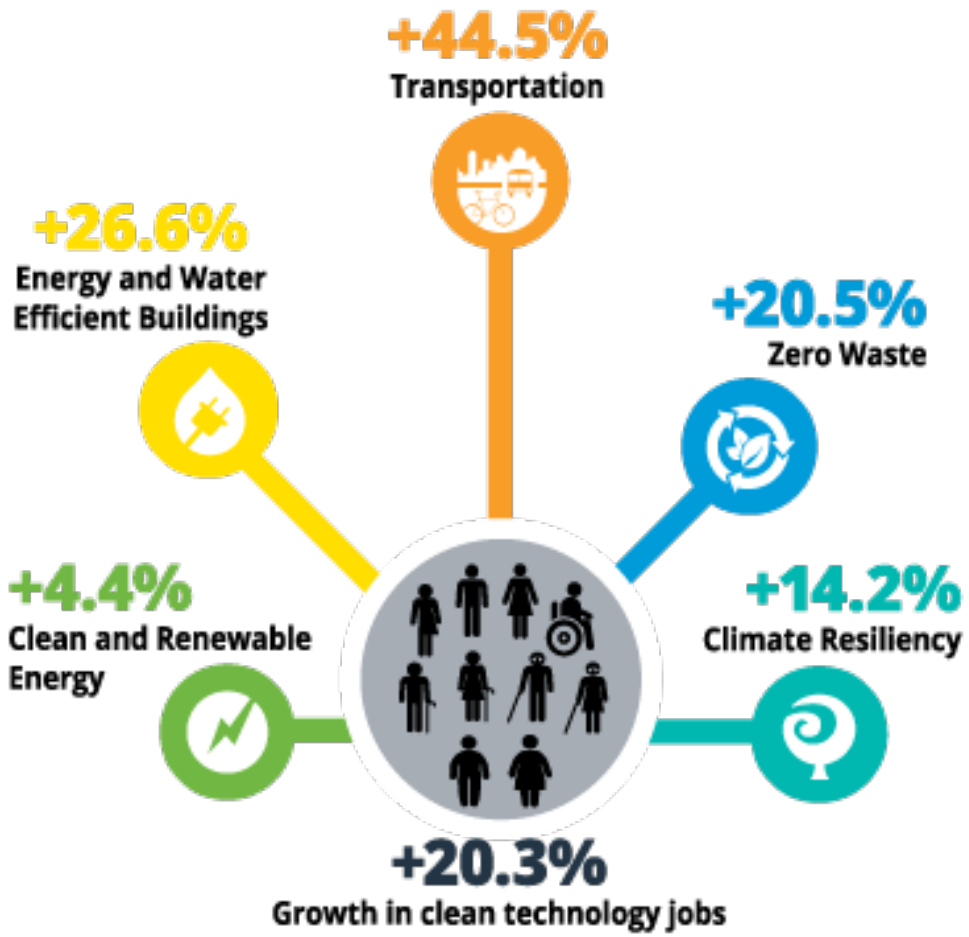
Reporting on Actions and Strategies

		2010 Baseline	2019	2020 Target	2035 Target
STRATEGY 1	Reduce residential energy use	5000 kW, 300 therms	**6.2%** reduction from baseline	15% energy use reduction from baseline in 20% of units	**15% energy use reduction from baseline in 50% of units**
	Reduce municipal energy use	205 million kW, 3 million therms	**4.5%** increase from baseline	15% reduction from baseline	**25% reduction from 2020 goal**
	Reduce per capita water use	128 gallons per capita per day (GPCD)	**107** GPCD	117 GPCD	**105 GPCD**
STRATEGY 2	Achieve 100% renewable energy citywide	11% renewable energy content	**43%** renewable energy content[1]	N/A	**100% renewable energy content**
	Increase municipal zero-emission vehicles (ZEV)	0% ZEVs in municipal fleet	**2%** (21 vehicles) of the City Fleet as converted to Zero Emission Vehicles There are an additional **75** Plug-In Hybrid and **79** electric utility vehicles within the fleet.[2]	50% ZEVs in municipal fleet	**90% ZEVs in municipal fleet**
	Convert to compressed natural gas (CNG) waste trucks	0% CNG waste trucks in operation	**65%** of waste trucks in operation are CNG - 86 of 131	N/A	**100% CNG waste trucks in operation**
STRATEGY 3	Increase use of mass transit	4% commuter transit modeshare	**8%** commuter transit modeshare[3]	12% commuter transit modeshare	**25% commuter transit modeshare**
	Increase commuter walking opportunities	3.5% pedestrian commuter modeshare	**3%** pedestrian commuter modeshare[3]	4% pedestrian commuter modeshare	**7% pedestrian commuter modeshare**
	Increase commuter bicycling opportunities	2% bicyclist commuter modeshare	**2%** bicyclist commuter modeshare[3]	6% bicyclist commuter modeshare	**18% bicyclist commuter modeshare**
	Retime traffic signals and install roundabouts	40 traffic signals per year, 0 roundabouts	**64** signals retimed, **0** roundabouts	200 traffic signals retimed, 15 roundabouts installed	**35 roundabouts installed**
	Reduce vehicle miles traveled	25 miles per day commute distance	**20** miles per day **1** commute distance[3]	N/A	**23 miles per day commute distance**
STRATEGY 4	Divert solid waste	52% diversion rate	**65%** diversion rate[4]	75% diversion rate	**90% diversion rate**
	Methane capture from the landfill	75% of gas captured from the landfill	**73.84%** of gas captured from the landfill	80% of gas captured from the landfill	**90% of gas captured from the landfill**
	Methane capture from wastewater treatment	71% of gas captured from the wastewater treatment facility	**99.9%** of gas captured from the wastewater treatment facility	N/A	**98% of gas captures from the wastewater treatment facility**
STRATEGY 5	Increase urban tree canopy cover	7% tree canopy cover citywide	**13%** tree canopy cover citywide	15% tree canopy cover citywide	**35% tree canopy cover citywide**

Reporting on Actions and Strategies

	Action	Status	Update
STRATEGY 1	1.1 - Present to City Council for consideration a residential Energy Conservation and Disclosure Ordinance.	Ongoing	City of San Diego adopted a Benchmarking Program in 2018. https://docs.sandiego.gov/municode/MuniCodeChapter14/Ch14Art12Division01.pdf
	1.2 - Present to City Council for consideration a Municipal Energy Strategy and Implementation Plan.	Ongoing	Municipal Energy Strategy has been presented to City Council [link to the agenda]. Municipal Energy Strategy Implementation Plan is under development.
	1.3 - Support water rate structures that provide pricing signals that encourage water conservation and reuse, including greywater use, within the limits established by Propositions 218 and 26.	Ongoing	The City of San Diego adopted water rate structures to encourage conservation and reuse in 2019. https://www.sandiego.gov/public-utilities/customer-service/water-and-sewer-rates/water DSD Bulletin on Grey Water https://www.sandiego.gov/sites/default/files/gray_water_systems.pdf
	1.4 - Present to City Council for consideration a Water Conservation and Disclosure Ordinance.	In progress	§ 93.0206 Low Water–Use Plumbing Fixtures § 93.00.1010 Water Conservation § 93.0208 Water–Conserving Plumbing Standards § 93.0201 Mandated Water and Energy Conservation Measures §67.0601Water System and Water Submeters A disclosure ordinance has not been presented to council
	1.5 - Implement an Outdoor Landscaping Ordinance that requires use of weather-based irrigation controllers.	Complete	City of San Diego Landscape Standards – Section 1 https://www.sandiego.gov/sites/default/files/legacy/development-services/pdf/industry/standards09.pdf
STRATEGY 2	2.1 - Present to City Council for consideration a Community Choice Aggregation (CCA) or another program that increases the renewable energy supply	Complete	San Diego Community Power formed September, 2019 https://www.sdcommunitypower.org
	2.2 - Present to City Council for consideration an update to City Administrative Regulation 90.73 to increase the number of municipal zero emissions vehicles.	In progress	The Fleet Department is proceeding with ZEV purchases. An update to AR 90.73 has not occurred.
	2.3 - Present to City Council for consideration a Municipal Alternative Fuel Policy.	In progress	The Fleet Department has replaced over 60% of diesel waste haulers with natural gas and is starting to require contracted waste haulers to do the same. A stand-alone alternative fuel policy has not been developed.
STRATEGY 3	3.1 - Implement the General Plan's Mobility Element and the City of Villages Strategy in Transit Priority Areas* to increase the use of transit.	Ongoing	Planning efforts will continue to implement the General Plan and the City of Villages Strategy and community plans are updated. General Plan
	3.2 - Implement pedestrian improvements in Transit Priority Areas to increase commuter walking opportunities.	Ongoing	Pedestrian improvements are ongoing
	3.3 - Implement the City of San Diego's Bicycle Master Plan to increase commuter bicycling opportunities.	Ongoing	The City continues to implement the Bicycle Master Plan https://www.sandiego.gov/sites/default/files/legacy/planning/programs/transportation/mobility/pdf/bicycle_master_plan_final_dec_2013.pdf
	3.4 - Implement a Traffic Signal Master Plan to retime traffic signals to reduce vehicle fuel consumption.	Ongoing	Traffic signal retiming is ongoing, a Traffic Signal Master Plan has not been drafted.
	3.5 - Implement a Roundabouts Master Plan to install roundabouts to reduce vehicle fuel consumption.	Ongoing	Roundabouts are being installed, a Roundabouts Master Plan has not been drafted.
	3.6 - Implement transit-oriented development within Transit Priority Areas.	In progress	Transit Priority Area Multifamily Residential Parking Standards https://www.sandiego.gov/sites/default/files/o-21057.pdf Complete Communities: Mobility Choices and Housing Solutions https://www.sandiego.gov/complete-communities
STRATEGY 4	4.1 - Enact the City's Zero Waste Plan, and implement landfill gas collection operational procedures in compliance with the California Air Resources Board's Landfill Methane Capture regulations.	Ongoing	The city continues to implement the Zero Waste Plan and methane capture operations at the landfill. https://www.sandiego.gov/sites/default/files/legacy/mayor/pdf/2015/ZeroWastePlan.pdf
	4.2 - Implement operational procedures to capture methane gas from wastewater treatment.	Ongoing	Methane capture at wastewater treatment facilities is at 99%
STRATEGY 5	5.1 - Present to City Council for consideration a city-wide Urban Tree Planting Program. The program shall include water conservation measures to minimize the water use for tree plantings. The measures should include planting drought-tolerant and native trees, and prioritizing tree plantings in areas with recycled water and greywater infrastructure.	Complete	In 2017 City Council adopted the Urban Forestry Plan https://www.sandiego.gov/sites/default/files/final_adopted_urban_forestry_program_five_year_plan.pdf Free Tree SD is the City's Urban Tree Planting Program https://www.sandiego.gov/blog/free-tree-sd The tree selection guide prioritizes drought tolerant species. https://www.sandiego.gov/sites/default/files/street-tree-selection-guide.pdf The City has also increased direct irrigation requirements, further conserving water

Low Carbon Economy



Job Growth

In 2019, job growth in the five CAP-related sectors continued to rise. San Diego's jobs in these sectors grew 20.3% from 2010 to 2019, adding 24,156 new jobs.

The Energy and Water Efficient Buildings sector contributed nearly 71% of the cumulative job growth.

About 1/3 of total cleantech employment is from engineering jobs, which are experiencing stronger growth than the overall San Diego region.

Advancing Climate Equity

The Planning Department's Complete Communities Initiative utilized the CEI to direct resources and increase engagement in San Diego's Communities of Concern.

Looking Forward

OUR CLIMATE OUR FUTURE
City of San Diego Climate Action Plan

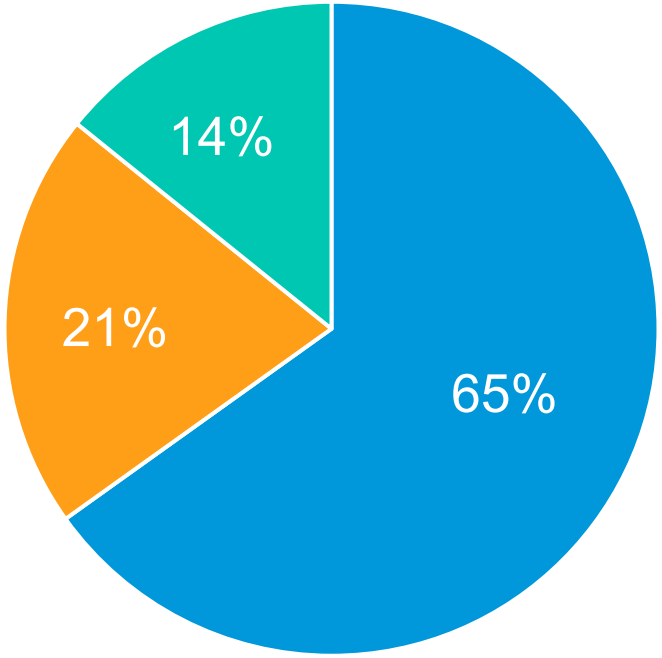
Our Climate, Our Future: Engagement

- 2,632 people have participated in our outreach efforts to-date
- 2,098 of those have provided some answers to the survey/forum questions

Online Survey:
Apr – Nov 2020

Community Presentations:
May 2020 – ongoing

Community Forums:
Aug 2020 – Feb 2021



Climate Equity Engagement Timeline

Early March 2021

Engagement Plan Development

Mid-March 2021

Finalized Engagement Plan

March – May 2021

Engagement Events

June 2021

- Feedback Analysis
- Incorporated into draft Update

Thank you!

Erik Caldwell, Chief Sustainability Officer, Director
Ashley Rosia-Tremonti, Program Manager
Environment Committee • March 18th, 2021