

CLIMATE ACTION PLAN UPDATE

CLIMATE ACTION SUBCOMMITTEE

Planning & Economic Development Department

January 29, 2020

City GHG Inventory
Climate Action Plans
Status Summary
Next Steps



CITY GHG INVENTORY

EMISSIONS SECTORS:



Building Energy



Transportation and Land Use



Solid Waste



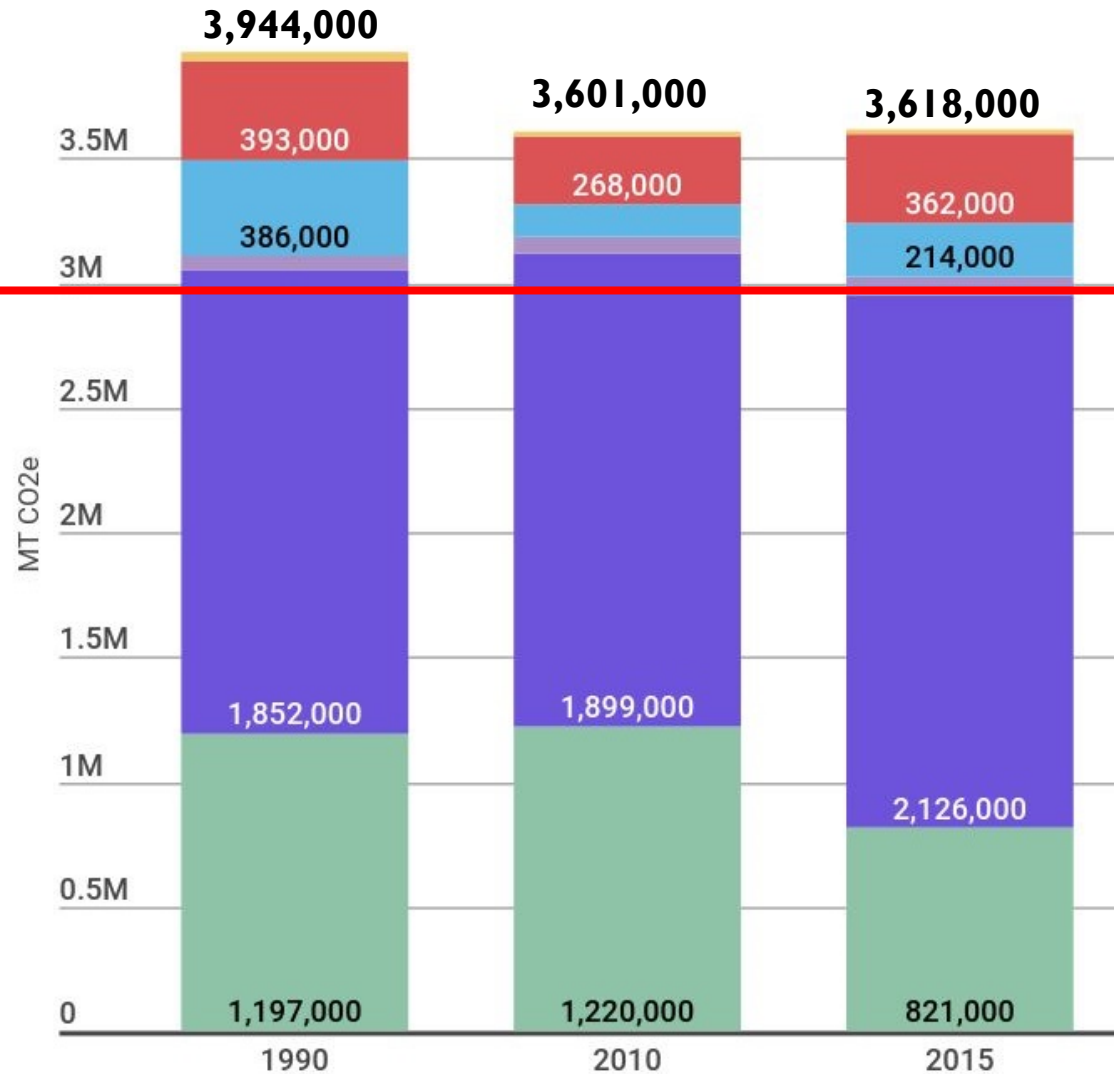
Water and Wastewater



Livestock and Fertilizer

Countywide Emissions

2020 Goal
(2.97 million)



Countywide emissions remain around 9% below 1990 levels.

260,000 more miles were driven per day in 2015 when compared to 2010.

Sonoma Clean Power inception lead to 33% reduction in GHGs from building energy use.



Jurisdiction Details

	Emissions (MTCO2e)					
	Backcast	Inventory		CA2020 Business as Usual Forecasts		
	1990	2010	2015	2020	2040	2050
<i>Emissions by Jurisdiction</i>						
Cloverdale	57,000	59,000	63,800	73,300	93,200	93,800
Cotati	51,500	52,100	49,900	61,300	69,000	70,900
Healdsburg	93,500	108,800	116,800	121,000	123,700	121,100
Petaluma	387,000	441,900	445,900	545,000	580,900	588,600
Rohnert Park	291,300	264,300	263,700	372,700	371,800	378,600
Santa Rosa	1,123,100	1,065,200	1,002,800	1,396,900	1,844,700	2,027,500
Sebastopol	73,200	76,300	72,500	93,000	96,500	97,100
Sonoma City	96,900	103,400	105,400	122,200	132,500	131,200
Windsor	133,000	157,800	151,900	188,100	212,000	216,500
Unincorporated Sonoma County	1,244,300	1,004,500	983,300	1,128,800	1,205,600	1,218,300
<i>Emissions Not Assigned to Individual Communities</i>						
Fertilizer and Livestock	392,800	267,600	361,800	242,600	193,500	169,000
Sonoma County Total	3,943,600	3,600,900	3,617,800	4,344,900	4,923,400	5,112,600

Santa Rosa

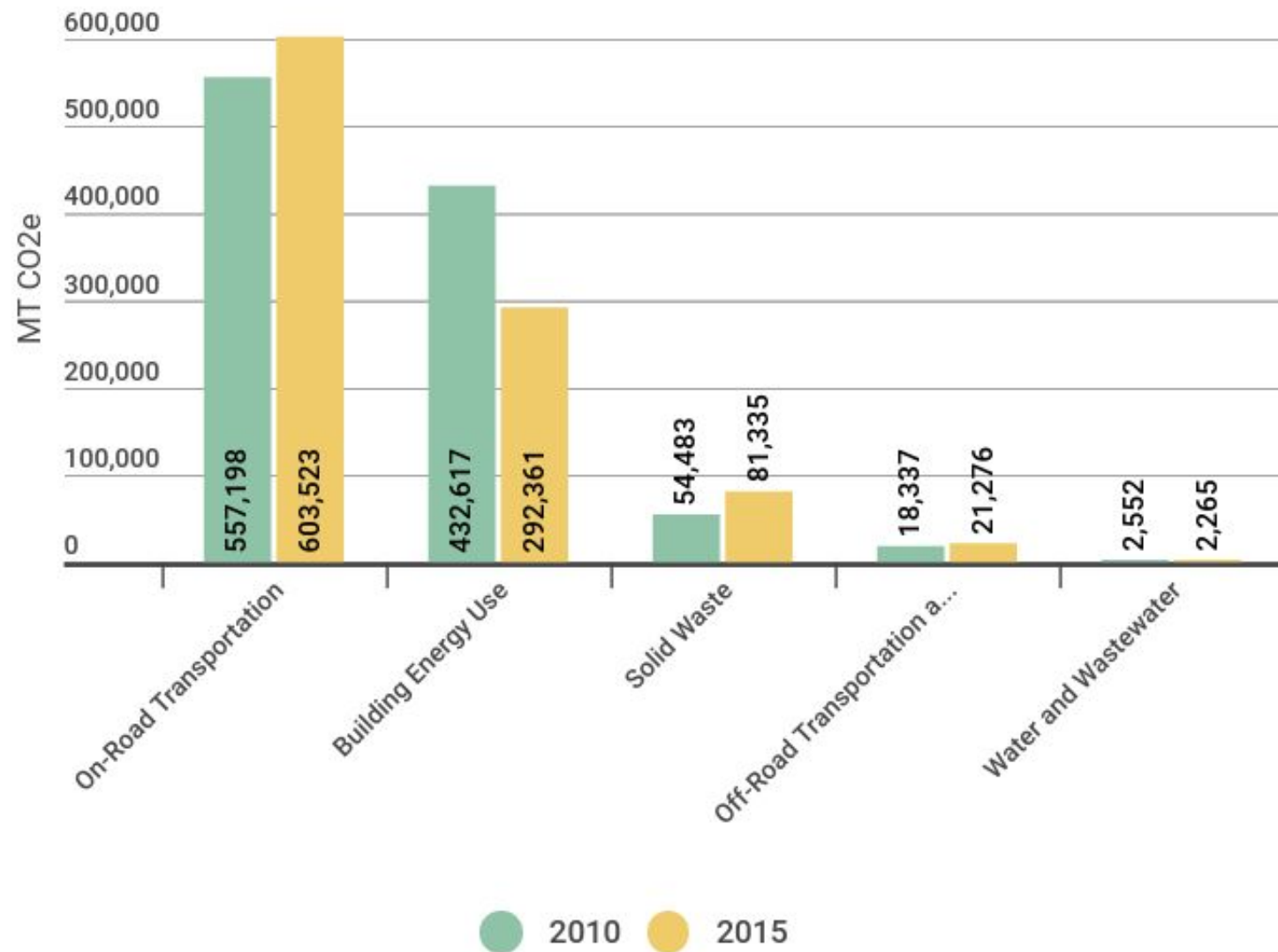
Units: Metric tons of CO₂e

1990	2007	2010	2015
1,123,100	1,321,100	1,065,200	1,002,800

**Percent Change
from 1990 Levels:**

+ 15%	- 5%	- 11%
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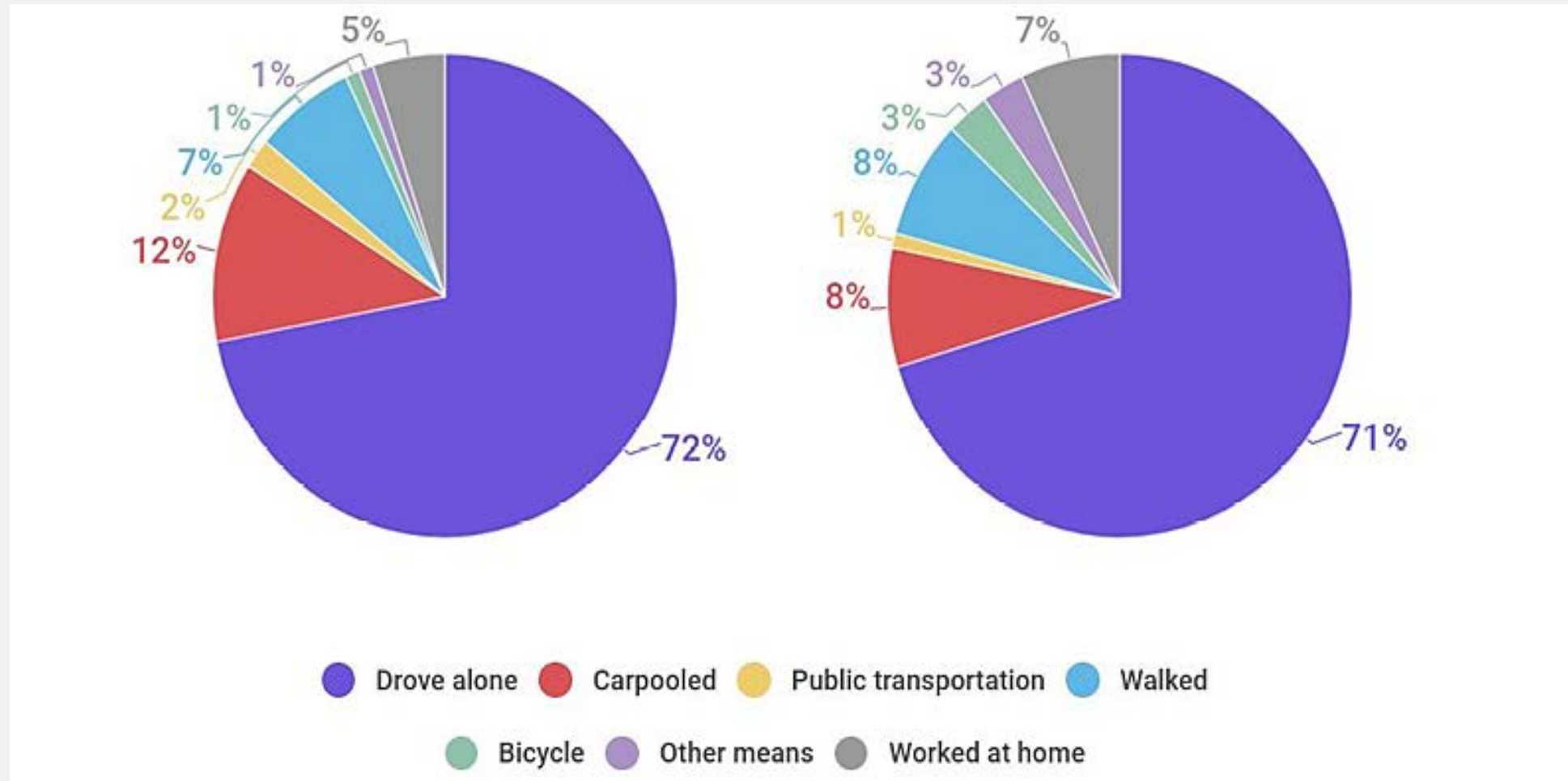
Total Emissions by Source



Travel Modes to Work

2010

2015



New 2018 GHG Inventory

- RCPA completing 2018 GHG Inventory for County
 - Summer 2020
- GHG Inventory shows metric tons of CO2 emitted for County and each City
- Will reference regional consumption based greenhouse gas inventory data to provide context for Sonoma County
- Shows GHG trends – and percent change from 1990 levels

Climate Mobilization Strategy

- RCPA to take lead on Strategy
- Set of policies to reduce GHGs on regional level
- Vision document; will not include an environmental document for CEQA streamlining purposes
- Cities and County of Sonoma to collaborate with RCPA through Climate Emergency Liaison

CITY CLIMATE ACTION PLANS

- City Council adopted **two** Climate Action Plans (CAPs) to address greenhouse gas (GHG) emissions.
- CAPs include a baseline GHG inventory, and implementation measures to reduce GHG emissions.

CLIMATE ACTION PLANS

MUNICIPAL OPERATIONS CLIMATE ACTION PLAN



CITY OF SANTA ROSA
August 6, 2013



CLIMATE ACTION PLAN

CITY OF SANTA ROSA

Adopted June 5, 2012



COMMUNITY CAP

The **Community CAP** identifies ways to **reduce local emissions** in the following areas:

- Energy efficiency
- Renewable energy usage
- Parking and land use
- Alternative transportation
- Optimized vehicle travel
- Solid waste
- Water and wastewater efficiency
- Local food systems
- Off-road emissions

MUNICIPAL CAP

The Municipal CAP (MCAP) identifies ways to **reduce emissions** from **City facilities and operations**, including:

- Water and wastewater operations
- Building energy
- Fleet vehicles
- Public lighting
- Waste stream

The CALGreen logo is displayed on a green rectangular background. The word "CAL" is in a white, cursive script, and "Green" is in a white, bold, sans-serif font. A registered trademark symbol (®) is located to the right of "Green". A white swoosh underline is positioned beneath the text.

CALGreen®



ENERGY EFFICIENCY

- Continued application of Tier One CALGreen Building Code.
- Water Department completed energy optimization plan to enhance energy efficiencies, reduce energy demands and generate more renewable energy.

RENEWABLE ENERGY

- Adoption of All-Electric Reach Code.
- Installation of infrastructure for EV charging for new residential developments.
- Expedited review for EV charging stations.
- The City continues to receive all electricity delivery from Sonoma Clean Power (SCP) for municipal meters.



 **Sonoma
Clean Power**





PARKING AND LAND USE

- Existing land use policies seek to reduce vehicle dependence, including those that streamline residential, lodging and day care uses within the Priority Development Areas.
- Station area plans provide developer incentives to construct high density housing near transit and commercial.
 - Downtown Station Area Plan update underway
- Density Bonus Ordinance adopted in 2019 allows for increased densities within PDAs.

ALTERNATIVE TRANSPORTATION

Bicycle Improvements:

- ✓ E Street – College Avenue to Sonoma Avenue
- ✓ Hopper Avenue – Coffey Lane to Airway Drive
- ✓ Kawana Springs Road – Brookwood Ave to Sonoma Academy
- ✓ Piner Road – Marlow Road to Range Avenue
- ✓ Seventh Street – B Street to Mendocino Avenue
- ✓ W.Third Street – Brittain Lane to Stony Point Road
- ✓ Third Street – Morgan St to B Street
- ✓ Third Street – Dutton Avenue to Santa Rosa Creek bridge

Pedestrian Improvements:

- ✓ Hearn Avenue at the Sonoma Marin Area Rail Transit (SMART) multi use path crossing
- ✓ Dutton Avenue – Jennings Avenue to 500 feet south (sidewalk on the east side)
- ✓ McConnell Avenue Hybrid Signal
- ✓ Alderbrook Drive and 4th Street crossing treatment (design only)
- ✓ Franklin Avenue pathway Monroe Street to Terrace Way

ALTERNATIVE TRANSPORTATION

SCTA and Transportation Authority of Marin negotiating a contract with a bike share vendor and expect to launch pilot program Spring 2020

Continued operation of Santa Rosa Free Ride Trip Reduction Incentive Program - partners with 290 organizations with 1510 participants to reduce single-occupancy trips

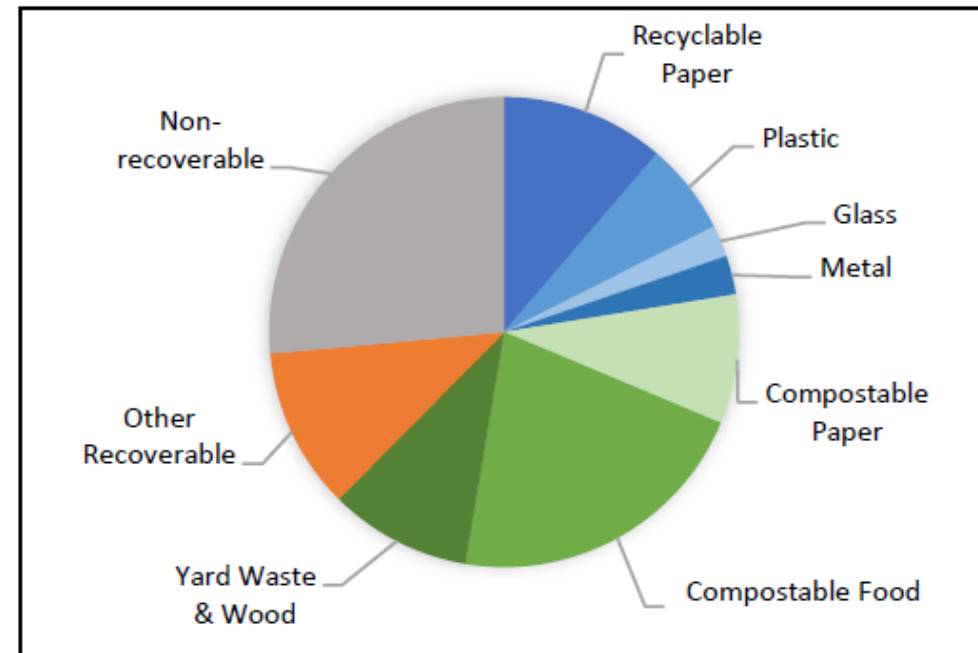


ALTERNATIVE TRANSPORTATION

- 10 Electric Diesel Hybrids incorporated into the City Bus fleet.
 - CityBus has received funding for four electric buses.
- Transit Division part of PG&E Fleet ready program and will receive technical assistance and funding to construct up to 9 electric bus charging stations before 2024.
- Transit Division part of a Sonoma Clean Power funded study looking at Bus electrification in Sonoma County.

SOLID WASTE

- ✓ Zero Waste Plan completed in 2019.
- ✓ Includes five strategies to reduce GHGs associated with consumption and disposal.
- ✓ City implemented composting program at City facilities.



What's in Santa Rosa's Trash?

WATER AND WASTEWATER



- Reducing water usage decreases energy used to convey and treat municipal water.
- Continued implementation of Water Efficient Landscape Ordinance.
- Replacing conventional residential water meters with meters that measure water usage in real time.
 - 3,000 meters remaining

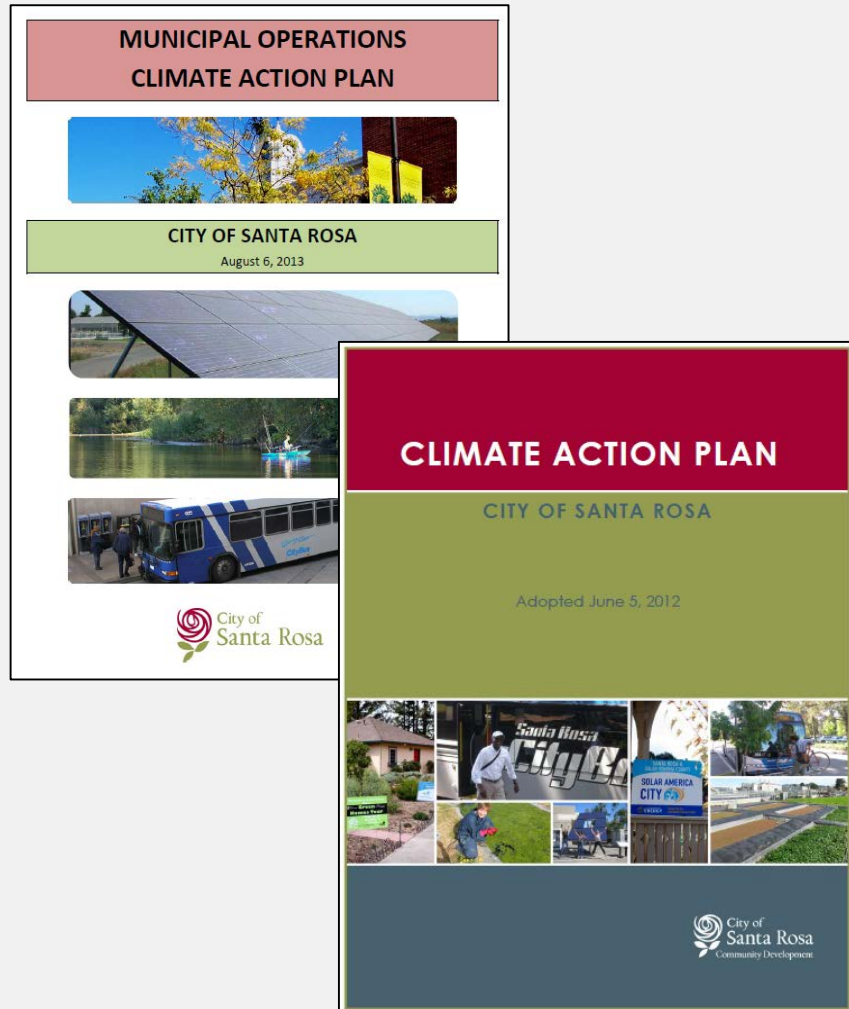
WATER AND WASTEWATER

- Resources for replacement of high water landscapes, including free landscape front yard design templates and a Cash for Grass turf replacement rebate.
- Removed over 3.5 million square feet of lawn
- Sustainable Garden at City Hall



SUMMARY & NEXT STEPS

CLIMATE ACTION PLAN STATUS SUMMARY



- Adopted in 2012
- Sets vision; includes specific policies and action items
- New developments demonstrate compliance by completing the Appendix E checklist; this has also allowed for CEQA* streamlining
- Analysis covers through 2020 and forecasting through 2035
- Inventory needs to be updated in accordance with statewide 2050 targets

*California Environmental Quality Act (CEQA)

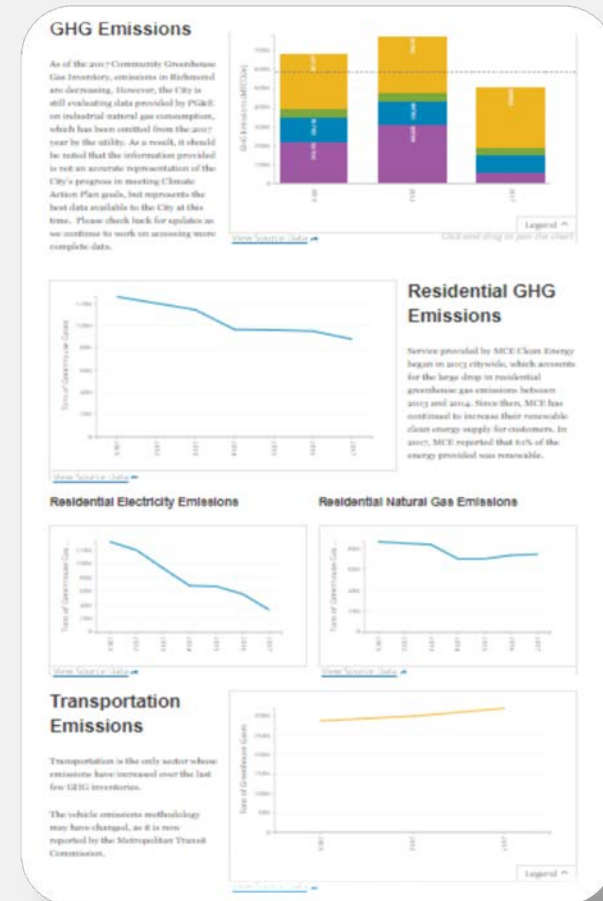
CITY COUNCIL ACTIONS - 2019

City Council Tier I Priority Implement Climate Action Plan

- Formed a Climate Action Subcommittee
- Adopted an All-Electric Reach Code
- Endorsed the Declaration of a Climate Emergency and Immediate Emergency Mobilization to Restore a Safe Climate
- Considering 100% Renewable in FY20-21 Budget Process - Evergreen
- Approved a Zero Waste Master Plan

CLIMATE ACTION NEXT STEPS?

- Support community participation in a climate change **adaptation planning workshop** in late summer 2020 offered by **EcoAdapt**, in partnership with Virginia Tech?
- Support development of a **public dashboard** on Climate Action Plan performance metrics?



CLIMATE ACTION NEXT STEPS?

- Support a **comprehensive plan update** of the City's Community and Municipal Climate Action Plans?

City Council
Tier I Priority
Update?
Implement
Climate Action
Plan

CLIMATE ACTION PLAN UPDATE OPTIONS

Option A:

Stand-Alone Plan Update

- **Cost:** \$200-\$300K in consultant costs
- **Staff:** 0.5 FTE senior planner support for duration of project
- **Funding:** No identified funding; seek grants and/or City allocation
- **Time:** 12-18 months; depending on funding availability, outreach, environmental review, and consultant availability

Option B:

Integrate into General Plan Update

- **Cost:** \$100K in consultant costs
- **Staff:** 0.25 FTE senior planner support for duration of project
- **Funding:** Leverage scope and/or additional General Plan budget to accommodate
- **Time:** 36 months; process is fully integrated into general plan engagement, policy development, and environmental analysis

QUESTIONS?

Amy Nicholson
Senior Planner
Planning and Economic Development
Anicholson@srcity.org
(707) 543-3258

Clare Hartman
Deputy Director – Planning
Planning & Economic Development
Chartman@srcity.org
(707) 543-3185

