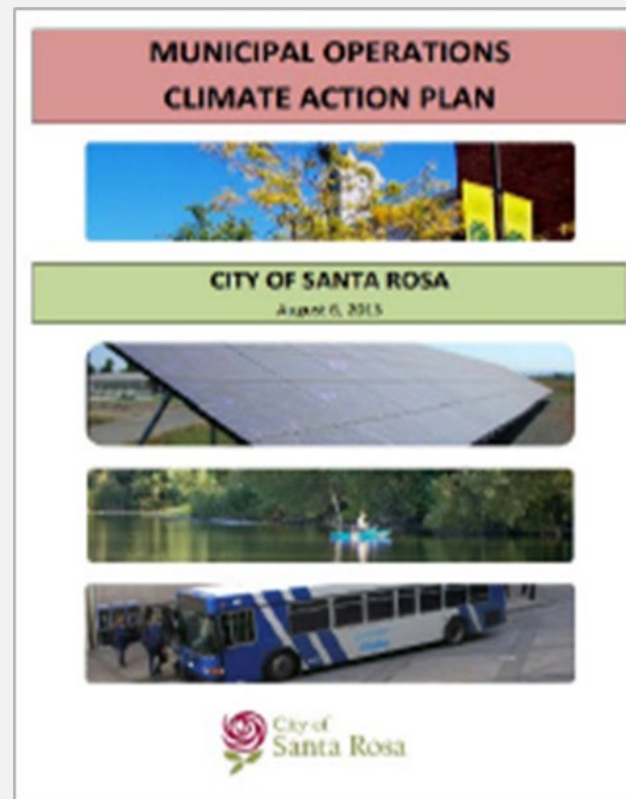
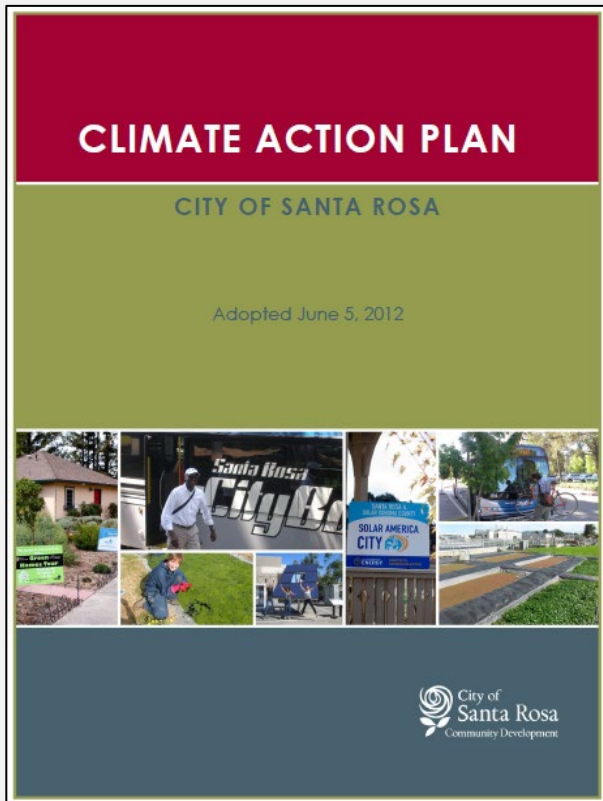


CAP AND MCAP IMPLEMENTATION



City of Santa Rosa
Greenhouse Gas (GHG)
Reduction Strategy

AGENDA

1. Status of CCAP and MCAP Implementation

Peter Martin, Deputy Director Water Resources, Santa Rosa Water

2. Transition to the Community-wide GHG Reduction Strategy

Nancy Woltering, Senior Planner, PED

3. Implementation of the GHG Reduction Strategy

Amy Nicholson, Supervising Planner, PED

4. Q & A

Project Team

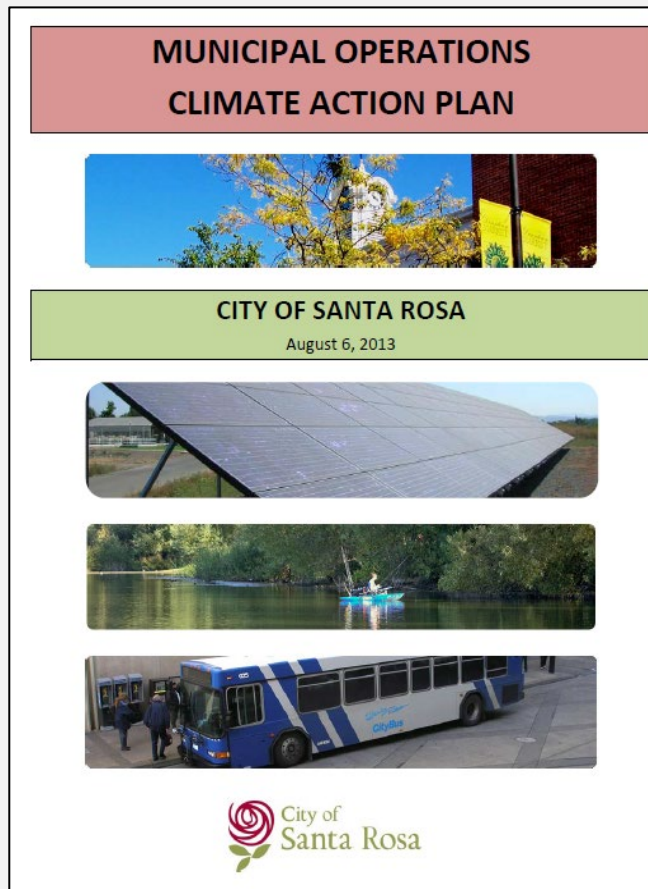
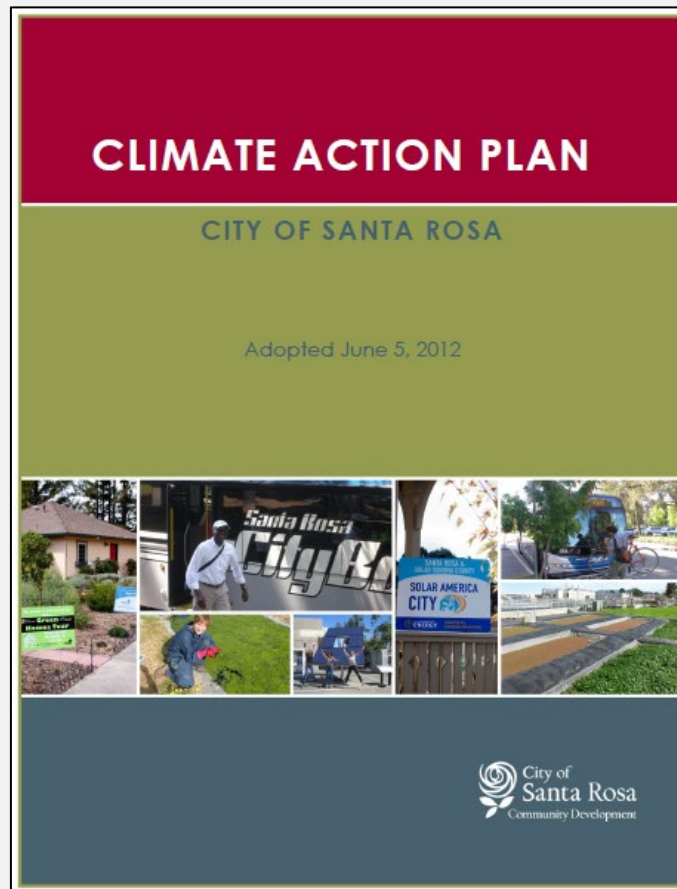
CLIMATE ACTION – SANTA ROSA

- 2000 to present – Council Resolutions committing to action and setting Community-wide and City Operations GHG Targets
 - City Operations 2010 & 2020 targets were achieved
- 2012 & 2013 – Community and Municipal Climate Action Plans
- 2020 - Climate Emergency Resolution
- 2023 to present – Council Goals: Address Climate Change
- 2000, 2007, 2019 & 2022 – GHG inventories
- ***GHG Reduction Strategy – General Plan Update 2050***



CLIMATE ACTION PLANS

- The City Council adopted two Climate Action Plans (CAPs) to address greenhouse gas (GHG) emissions
- The 2012 Community-wide CAP (CCAP) address citywide GHGs
- The 2013 Municipal CAP (MCAP) addresses GHGs from City facilities
- The CAPs include a baseline GHG inventory, and a menu of implementation measures to reduce GHG emissions

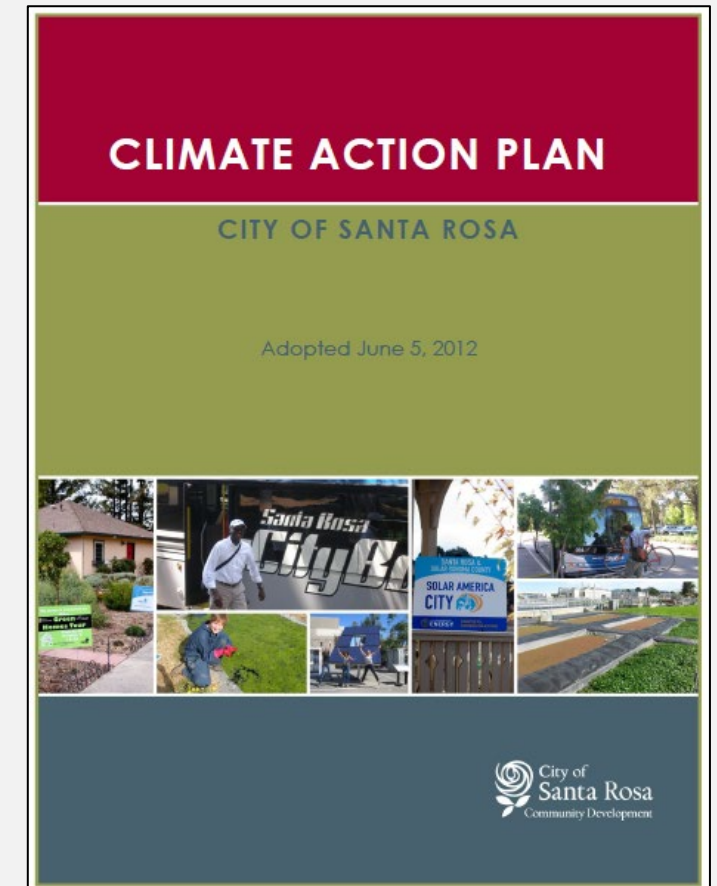


2012 COMMUNITY-WIDE CLIMATE ACTION PLAN

The CCAP addresses community-wide GHGs and establishes a baseline and targets

Categories of GHG goals, actions, and measures included:

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



CCAP MEASURES COMPLETED - HIGHLIGHTS

ENERGY EFFICIENCY AND CONSERVATION

- Adopt green standards for new development
- Implement the City tree preservation ordinance.
- Require new development to provide public and private trees.
- Partner on rebate programs for residents & businesses for appliances



RENEWABLE ENERGY

- Partner with SCEIP to provide financing for solar
- Community Choice Aggregation Implementation
- Remove development barriers for renewable energy systems

PARKING AND LAND USE MANAGEMENT

- Support Urban Growth Boundary, promote infill
- Implement specific plans and corridor plans
- Support mixed use, higher density development near services
- Housing Allocation Plan
- Residential Parking Program, on street parking pricing, unbundling of parking in residential developments



CCAP MEASURES COMPLETED - HIGHLIGHTS

IMPROVED TRANSIT OPTIONS

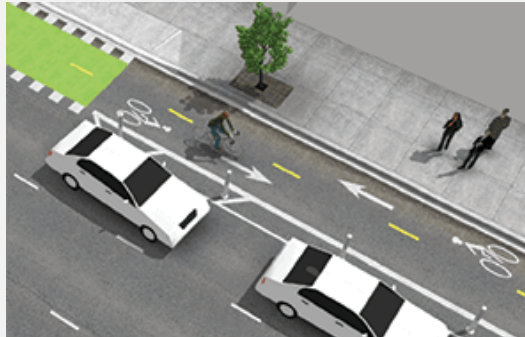
- Update bicycle parking regulations
- Implement an Automated Vehicle Location system
- Explore high frequency/rapid bus along major transit corridors, maximize transit trips provided
- Free or low-cost ridership options, Coordination with SMART
- Multiple bike and pedestrian improvements, implementation of the active transport master plan

OPTIMIZED VEHICULAR TRAVEL

- Facilitate EV charging stations where applicable
- Increased participation in SRJC alternative fuel classes
- Implement state idling rules

WASTE REDUCTION, RECYCLING, AND COMPOSTING

- Work with ZeroWaste Sonoma to encourage composting and waste diversion for businesses
- Adopt & Implement ZeroWaste Food Ware Ordinance
- Host various events for waste diversion education



HIGHLIGHT CAP MEASURES - COMPLETED

WATER AND WASTEWATER

- Require reduction in potable water for new development.
- Expand water conservation efforts, rebates, programs
- Automatic Metering Infrastructure, Customer Portal
- Maximize recycled water deliveries to Geysers Project to generate clean energy, agricultural use offset
- Encourage the replacement of high water use landscapes and turf



AGRICULTURE AND LOCAL FOOD

- Establish community gardens, markets, and urban farms
- Revise zoning code to allow small animals, chickens, bees

OFF-ROAD VEHICLES AND EQUIPMENT

- Encourage provision of outside outlets for electric equipment
- Limit GHG construction equipment emissions by applying project specific measures

2024 CCAP MEASURES - HIGHLIGHTS

Active Transportation

- Incorporated several bicycle infrastructure improvements as part of pavement rehab projects
- Partners in bicycle safety training, safe routes to school
- Redwood Bike Share launch

Transit

- Transit Mall rehabilitation and improved pedestrian safety upgrades
- Downtown SMART Station wayfinding and transit access debut
- Youth unlimited rides program continuing

Water Use Efficiency

- More than 1500 grant funded free direct install high-efficiency toilet packages for residential and commercial properties

Planning & Economic Development

- 206 market rate units and 131 affordable units in downtown



2013 MUNICIPAL CLIMATE ACTION PLAN

The MCAP addresses city operations GHGs and establishes a baseline and targets

Areas of focus for GHG actions and measures included:

- Wastewater
- Fleet
- Buildings & Facilities
- Employee Commute
- Public Lighting
- Water Operations
- Waste Diversion

MUNICIPAL OPERATIONS CLIMATE ACTION PLAN



CITY OF SANTA ROSA

August 6, 2013



MCAP MEASURES COMPLETED - HIGHLIGHTS

WATER AND WASTEWATER OPERATIONS

- Installed multiple improvements to gas cogeneration facilities at Laguna Treatment Plant
- Optimized high-strength waste facilities
- Replaced, high horsepower pumps with more efficient options & added VFDs to optimize wastewater plant operations
- Partner on rebate programs for residents & businesses for appliances
- Replace pump motors with high efficiency motors as they fail or need replacement
- Sonoma Clean Power Evergreen transition

FLEET

- Substantial investment in clean transit fleet, operational fleet



MCAP MEASURES COMPLETED - HIGHLIGHTS

BUILDINGS AND FACILITIES

- Installed a small cogeneration system at the Finley Swim Center
- Installed a high efficiency boiler at the Ridgway Pool Center
- Purchase clean energy (Sonoma Clean Power Evergreen transition)
- Investigations and implementation of on-site renewable energy options
- EMPLOYEE COMMUTE
- Continue to operate a 9/80 work schedule where appropriate
- Policy to allow staff to telework when appropriate

PUBLIC LIGHTING

- Retrofit of public lighting is substantially complete, clean energy transition

WASTE DIVERSION

- City hosted events and all facilities required to implement zero waste measures
- City purchasing policy for recycled content



2024 MCAP MEASURES - HIGHLIGHTS

Fleet

- Added 7 new EVs in 2024
- EVIMP Development – Zero Emission Fleet by 2040

Buildings and Operations

- AECOM Study – investigating facilities for renewable generation, other energy efficiency measures
- Sonoma Clean Power Incentive Program – 19 All-electric Heat Pump Water Heaters installed

Water and Wastewater

- UV Replacement Project continues to progress, estimate substantial energy savings at completion
- Utilized PG&E incentives for VFD installation, energy efficiency improvements in Water / Wastewater operations





Transition to the GHG Reduction Strategy

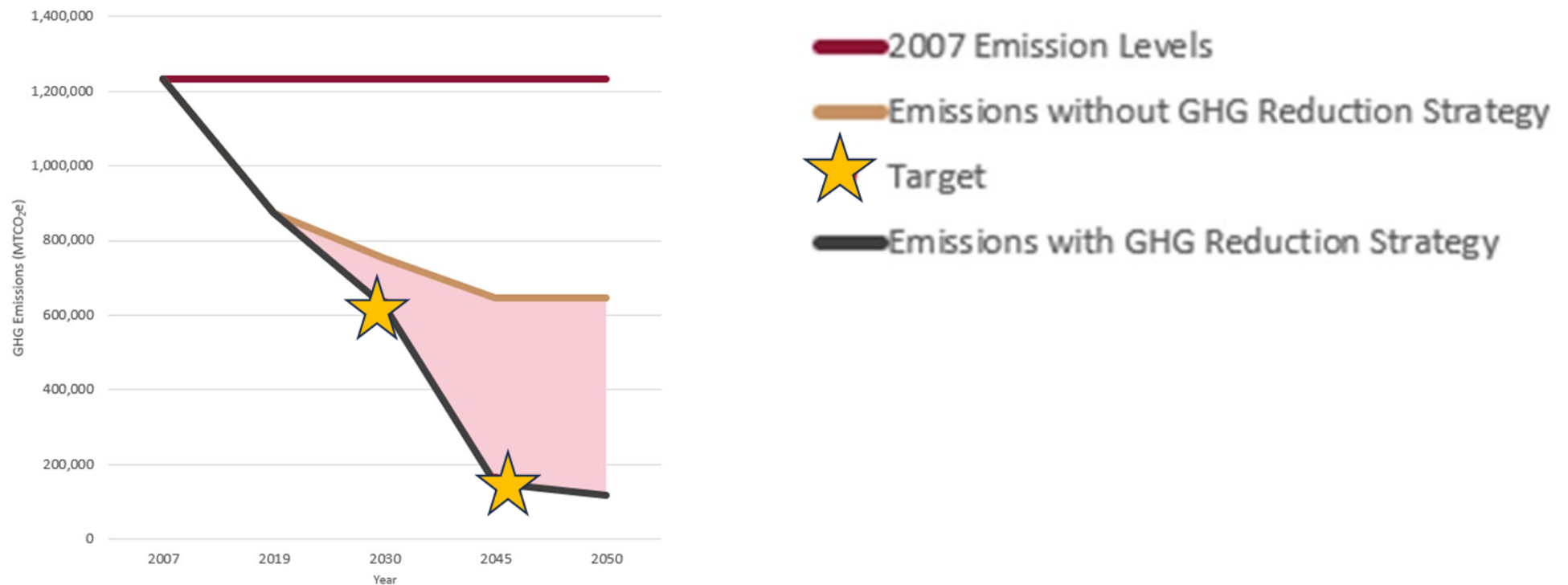
*Nancy Woltering,
Senior Planner, PED*



GHG Reduction Mandate

- **California Climate Crisis Act of 2022** – The State now mandates that jurisdictions reduce GHG emissions by 40% below 1990 levels by 2030, by 85% below 1990 levels by 2045, and achieve *carbon neutrality* on this timeline.

Figure 5 Santa Rosa Emissions Reductions with the GHG Reduction Strategy, 2007 to 2050





Project Description – GHG Reduction Strategy

- ***GHG Reduction Strategy*** – Appendix to General Plan 2050 and reviewed as part of the EIR to enable project streamlining.
- ***Project Baseline*** – The base year for the GHG Reduction Strategy is 2019.
- ***Relationship to Existing CCAP and MCAP*** – The GHG Reduction Strategy replaces the Community Climate Action Plan and incorporates some measures of the Municipal Climate Action Plan.



Objectives of GHG Reduction Strategy



1. Decrease Community-Wide Vehicle Miles Traveled (VMT) and Increase the Use of Zero-Emission Vehicles and Equipment.



2. Reduce Community-Wide Energy Use and Transition To Carbon-Free Energy Sources.



3. Achieve a Zero-Waste Future for Santa Rosa.



4. Use Water Efficiently and Enhance Drought Resilience.



5. Enhance Sustainable and Carbon-Free Practices Community-wide.



Community-wide GHG Emissions

- The GHG Reduction Strategy breaks down community-wide emissions by sectors. The sectors where the City produces the most GHGs include:
 - **Transportation (58%)**
 - **Non-Residential Energy (18%)**
 - **Residential Energy (17%)**

Together, emissions from these sectors result in **93%** of the City's GHG emissions.



1. Decrease Community-wide Vehicle Miles Traveled (VMT) and Increase the use of Zero Emission Vehicles and Equipment



Measure 1

Locate and design development to minimize vehicle dependence



Measure 2

Improve the frequency, coverage, and effectiveness of local and regional transit and rail networks



Measure 3

Develop and expand transportation demand management programs to reduce VMT and dependence on single-occupancy vehicles



Measure 4

Enhance active transportation and micro-mobility systems



Measure 5

Accelerate the adoption of zero-emission, light-duty, and heavy-duty vehicles



Measure 6

Transition to zero-emission motorized equipment, including construction and landscaping



2. *Reduce Community-Wide Energy Use and Transition To Carbon-Free Energy Sources*



Measure 7

Reduce community-wide energy use, increase energy efficiency, and advance electrification in existing buildings, including municipal buildings



Measure 8

Transition to carbon neutral new buildings



Measure 9

Increase local renewable energy generation and the use of renewable, carbon free, and distributed energy systems including energy storage throughout the city



GHG Reduction Measures

- Each measure includes:
 - Narrative text
 - Projected GHG emissions savings
 - Implementing programs
 - Supportive General Plan policies
 - Measure performance standards
 - Applicability
 - Timeframe
 - Lead and Supporting department(s)
 - Supporting partners
 - Expected funding sources



Implementation of the GHG Reduction Strategy

*Amy Nicholson,
Supervising Planner, PED*



Implementation – City Staff Work Program

- Development of tracking mechanisms
 - Guide Departmental work in developing ordinances and programs
 - Ensure inter-departmental coordination
- Report to Climate Action Subcommittee, City Council and other City review authorities as appropriate



Implementation – New Development

- Projects subject to the California Environmental Quality Act (CEQA)
 - Applicant prepares Checklist to determine consistency with GHG Cumulative Impact Analysis for the General Plan EIR
 - Verified through project conditions and prior to building permit issuance



Implementation – Public Facing Dashboard

- Display the City's GHG Inventory Data (Current and Past to show trends/progress)
- Share progress of the implementation of GHG Measures by City Staff
- Highlight examples of how new development furthers GHG reduction targets



GHG Reduction Strategy

Questions?



Thank you!!

*Peter Martin, Deputy Director Water Resources, Water
Amy Nicholson, Supervising Planner, PED
Nancy Woltering, Senior Planner, PED*