



*County of Sonoma*

# Climate Resilience Comprehensive Action Plan

## Key Resources

*August 2024*



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## Local Studies, Strategies, Programs and Plans

### ***Greenhouse Gas Emissions Inventories:***

- [\*\*\*County of Sonoma Greenhouse Gas Inventory Report \(2017, 2019, 2021\) \[2023\]\*\*\*](#), summarizes GHG emissions from municipal County Operations for three calendar years, discusses trends, and shows a business-as-usual projection to 2030, and a wedge analysis of the expected impacts of federal, state, and local actions to reduce GHG emissions.
- [\*\*\*Sonoma County Greenhouse Gas Inventory 2022 Update \[2024\]\*\*\*](#), summarizes countywide GHG emissions for the 2022 calendar year, analyzes trends as compared to earlier countywide inventories prepared on a 2-year cycle, and also provides community inventories for each of the jurisdictions in Sonoma County, included the collected unincorporated areas of Sonoma County.

[\*\*\*County of Sonoma Carbon Stock Inventory and Potential Sequestration Study \[2024\]\*\*\*](#), quantifies the carbon stored in different types of natural and working lands across Sonoma County, evaluates changes to Sonoma County carbon stocks between 2013 and 2022, quantifies the maximum suitable acreage where individual nature-based practices could be implemented, and how much additional carbon could be stored through these practices. It also summarizes carbon stocks on County-owned lands.

[\*\*\*Building Energy Audits & Recommendations \[2024\]\*\*\*](#), includes the results of detailed audits of energy systems and use at County facilities, and recommendations for energy and water efficiency upgrades, energy decarbonization, and renewable energy and storage.

[\*\*\*County of Sonoma Fleet Electrification Assessment \[2024\]\*\*\*](#), analyzed the current County light-duty fleet composition and use, and the available EV models and costs, and recommended a fleet transition plan with pricing.

[\*\*\*Sonoma County Transit Zero Emission Bus Rollout Plan \[SC Transit, 2023\]\*\*\*](#), described Sonoma County Transit's plan to replace natural gas-fueled buses with electric buses, in compliance with the state's Innovative Clean Transit regulation.

[\*\*\*Zero Waste Audit and Characterization Study \[2023\]\*\*\*](#), analyzed the County's municipal waste stream at 11 representative facility types and recommended actions to increase diversion and reduce landfilled waste.



[\*Sonoma Water Climate Adaptation Plan \[2021\]\*](#), guides Sonoma Water in prioritizing and allocating resources towards practices and projects that will improve the resiliency of its operations and facilities to climate variability and change.

[\*Sonoma County Climate Resilient Lands Strategy \[2023\]\*](#), provides structure and guidance to climate-related efforts throughout the county, with a focus on natural and working lands.

[\*Sonoma County Multi-Jurisdictional Hazard Mitigation Plan \[2021\]\*](#), assesses hazard vulnerabilities and identifies potential mitigation actions each jurisdiction will pursue in order to reduce the level of injury, property damage, and community disruption that might otherwise result from such events.

### ***Wildfire Resilience Planning & Support:***

- [\*Center for Law, Energy, & the Environment: Priorities for Sonoma County's Vegetation Management Funds \[2021\]\*](#), outlines priorities and strategies to invest vegetation management funding efficiently and effectively and leverage the funds into long-term investments and sustainable practices.
- [\*Sonoma County Community Wildfire Protection Plan \[CWPP, 2023\]\*](#), incorporated by reference into the Multi-Jurisdictional Hazard Mitigation Plan, it enhances efforts to protect communities, watersheds, and other at-risk lands from catastrophic wildfire events.
- [\*Sonoma County CWPP Hubsite \[2023\]\*](#), is a website used to inform and collect feedback on the County's efforts to update the plan. It is also a resource for County residents to look at Story Maps, Risk Indexes, and to submit any fire mitigation and hazard reduction projects. The site also provides educational resources from partnering agencies on wildfire preparedness.
- [\*Sonoma County Wildfire Resilience Planner \[2023\]\*](#), combines science and spatial data with guidance from Sonoma County's experts to identify locations where the reduction of fuels will best protect lives and property, critical infrastructure, ecosystem services, and biodiversity.
- [\*Sonoma County Vegetation Management Grant Program \[2021-2024\]\*](#), provides resources and grant funding for vegetation management in areas at high-risk of wildfire.
- [\*Wildfire Fuel Mapper \[2021\]\*](#), supports landowners and managers in locating and understanding fire hazards on their land, providing users with a set of tools, maps, resources, and information to help residents and land managers reduce fire fuel hazard.
- [\*University of California Cooperative Extension \(UCCE\) Sonoma County: Fire Resources\*](#), provides maps, evacuation and recovery information, and additional resources for farmers and others to plan and prepare for wildfires.

[\*Ag + Open Space: Vital Lands Initiative \[2021\]\*](#), is a long-range comprehensive plan to prioritize the land conservation activities (including planning, acquisition, and ongoing stewardship) of the Sonoma County Agricultural Preservation and Open Space District (Ag + Open Space) through 2031.



[\*Ag + Open Space: Healthy Lands & Healthy Economies \[2018\]\*](#), an exploration of the multiple benefits and economic values that we derive from land conservation – including clean water for people and wildlife, resiliency to climate change and extreme events, and community health.

[\*Sonoma County Climate Mobilization Strategy \[2021\]\*](#), outlines 13 countywide actions under local authority that have the potential to significantly reduce greenhouse gas (GHG) emissions by 2030.

[\*Sonoma County Moving Forward 2050 \[2021\]\*](#), a comprehensive transportation plan connecting people and places to transition the Sonoma County transportation network to zero-emissions by 2050.

[\*Sonoma County Transit Integration & Efficiency Study \[2019\]\*](#), identifies opportunities to coordinate or integrate many aspects of providing transit service among the three local bus transit providers in Sonoma County.

[\*Sonoma County Integrated Transit Service Planning Study \[2024\]\*](#), focuses on corridors where transit routes overlap in Sonoma County, further schedule and transfer coordination, as well as regional connections, to increase the efficiency of delivering high-quality transit service and maximize the use of limited resources through integrated multi-agency service planning.

### **Regional Studies, Strategies, Programs and Plans**

[\*Bay Adapt Regional Strategy for a Rising Bay \[2021 & ongoing\]\*](#), a platform establishing regional agreement on the actions necessary to protect people and the natural and built environment from rising sea levels, includes guidelines for sea level rise adaptation planning, a draft One Bay Vision, and draft guidelines for shoreline resiliency plans throughout the Bay, and an online mapping tool that knits together the guidelines and adaptation strategies.

[\*Bay Area Regional Priority Climate Action Plan \[2024\]\*](#), includes a GHG emissions inventory the Bay Area region for 2022, and priority GHG reduction measures for two sectors: passenger vehicles and residential buildings.

[\*Plan Bay Area 2050 \[2021\]\*](#), is the region’s long-range strategic plan comprised of 35 strategies across the elements of housing, the economy, transportation, and the environment, founded on multiple cycles of meticulous analysis and rigorous public engagement.

[\*Resilient Bay Area \[ongoing\]\*](#), a project of the Bay Area Regional Collaborative working with partners and stakeholders from across the Bay Area region to develop a Regional Multi-Hazard Adaptation Plan that supports the deployment of effective planning approaches and equitable, multi-benefit climate adaptation projects.

[\*North Coast Resilience Plan \[2022\]\*](#), represents a shared vision for watershed, fireshed, forest, and community resilience in the North Coast region of California, guided by and aligned with the goals and objectives of Tribal, federal, state, regional, and local plans.



## **State Studies, Strategies, Programs and Plans**

**[Cap and Trade Program](#)**, a system in which power plants, refineries, and other large facilities buy and sell greenhouse gas emissions allowances to meet overall emissions limitations set by the California Air Resources Board (CARB).

**[Climate Change Scoping Plan to Achieve Carbon Neutrality \[2022\]](#)**, California's comprehensive plan outlining the state's approach to achieving its greenhouse gas emission reduction targets, including SB 32's goal of reducing emissions 40% below 1990 levels by 2030, and achieving carbon neutrality by 2045.

**[Renewables Portfolio Standard \[2018\]](#)**, California's statewide requirement that electricity providers procure energy from certain renewable sources—33% of total electricity by 2020, and 60% of total electricity by 2030.

**[Low Carbon Fuel Standard \[2018\]](#)**, a program requiring transportation fuel producers to reduce the greenhouse gas emissions intensity of their products, from extraction to refining and end use.

**[Advanced Clean Cars Program \[2022\]](#)**, which supports Governor Newsom's Executive Order (N-79-20) goal that 100% of in-state sales of new passenger cars and trucks will be zero emission by 2035 by reducing greenhouse gas and smog-causing pollutant emissions from California cars, including vehicle performance standards and manufacturer requirements.

**[Advanced Clean Fleets Program \[2023\]](#)**, which supports Governor Newsom's Executive Order (N-79-20) goal that 100% of medium and heavy-duty vehicles will zero emission by 2045, by requiring fleets that are well-suited for electrification to reduce emissions through requirements to phase-in the use of Zero-Emission Vehicles (ZEVs) for targeted fleets, and requirements that manufacturers only manufacture ZEV trucks starting in the 2036 model year.

**[Innovative Clean Transit Program \[2018\]](#)**, that requires all public transit agencies to gradually reduce fleet vehicle tailpipe emissions and encourages them to provide innovative first and last-mile connectivity and improved mobility for transit riders.

**[Green Building Standards \[2022\]](#)**, a program to reduce the energy use of California buildings, including energy efficiency standards for new construction and retrofits for existing buildings.

**[Greenhouse Gas Reduction Fund](#)**, a program allocating proceeds from cap-and-trade auctions to support investments and projects that reduce greenhouse gas emissions throughout California.

**[Emissions performance standards for In-Use Off-Road Engines and Portable Equipment, and zero emission requirements for Small Off-Road Engines.](#)**

**[Organic Waste Recovery \(SB 1383, Lara\)](#)**, requirements to divert 75% of organic waste from the landfill waste stream to composting, and rescue at least 20% of currently disposed surplus food, by 2025.

[\*\*Natural and Working Lands Climate Smart Strategy \[2022\]\*\*](#), which identifies priority nature-based solutions to deliver climate benefits across all of California’s diverse landscapes and guides State programs and investments.

[\*\*California Climate Adaptation Strategy \[2021\]\*\*](#), that links together the state’s existing and planned climate adaptation efforts, organized around outcome-based priorities, enabling a coordinated, integrated approach to achieve California’s six climate resilience priorities and build climate resilience.

[\*\*Nature-based Solutions Climate Targets \[2024\]\*\*](#), adopted pursuant to AB 1757 (C. Garcia, 2022), include nature-based solutions climate targets for 2030, 2038, and 2045 that contribute to California’s goals of achieving carbon neutrality no later than 2045 and protecting Californians from the climate crisis.

[\*\*California Forest Carbon Plan \[2018\]\*\*](#), which lays out recommended actions to achieve healthy and resilient forests, the state’s the largest land-based carbon stock, based on current understanding about California’s forests and how climate change will evolve in California.

[\*\*Wildfire and Forest Resilience Action Plan \[2021\]\*\*](#), to strategically accelerate efforts to: restore the health and resilience of California forests, grasslands and natural places; improve the fire safety of communities; and sustain the economic vitality of rural forested areas.

[\*\*Pathways to 30x30 \[2024\]\*\*](#), which supports Governor Newsom’s Executive Order (N-82-20), committing California to a goal of conserving 30% of its lands and coastal waters by 2030 (30x30).

[\*\*Strategic Plan to Protect California’s Coast and Ocean 2020-2025\*\*](#), provides a roadmap for protecting and adapting these resources in the face of sea-level rise, ocean acidification and hypoxia, ocean warming, and other climate-driven stressors.

[\*\*Water Resilience Portfolio \[2020\]\*\*](#), a roadmap to building water resilience through a diverse set of actions that will prepare California’s water systems to support our growing state in a warmer, more variable climate.

