



COMMUNITY DEVELOPMENT DEPARTMENT

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August 15, 2022

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TO: Tuolumne County Planning Commissioners
FROM: Quincy Yaley, AICP, Director
RE: Adoption of the Tuolumne County Climate Action Plan (TC 19-001)

REQUESTED ACTION

Consideration of providing direction to the Board of Supervisors on the adoption of the Tuolumne County Climate Action Plan, including the action items in the Prioritization Matrix Workplan.

Addition to staff report on 8/15/2022 – Addition to Exhibit A and Exhibit B– new language to table is identified by red font

BACKGROUND INFORMATION ON THE CLIMATE ACTION PLAN PROJECT PROCESS

1. After the update to the General Plan in 2019, the County is required to prepare a Climate Action Plan (CAP). Development of a CAP is driven by Policy 18.A.1 in the County's 2018 General Plan. The County's CAP will identify existing and projected GHG emissions, set GHG reduction targets, establish policies and actions to meet reduction targets, integrate climate adaptation and resilience strategies, engage the community, and provide an implementation program. The draft CAP is found on the project webpage: <https://www.tuolumnecounty.ca.gov/1332/Climate-Action-Plan>.
2. On March 31, 2020, the Tuolumne County Board of Supervisors directed Community Development Department (CDD) staff to prepare a Climate Action Plan with the assistance of Ascent Environmental. The Climate Action Plan before your Commission is the culmination of over 2 years of planning work involving the County, partner agencies, and the public. The Climate Action Plan is built upon these previous planning efforts and documents, including:
 - Tuolumne County Regional Blueprint Greenhouse Gas Study (2012)
 - Tuolumne County Emergency Operations Plan (2012)
 - Tuolumne County Regional Transportation Plan (2016)
 - Tuolumne Utilities District Urban Water Management Plan (2020)
 - Tuolumne County Multi-Jurisdictional Hazard Mitigation Plan (2017)
 - Tuolumne County General Plan Update (2019)
 - Tuolumne County Fire Safety Report (2020)
 - Tuolumne County Board of Supervisors Priorities and Objectives (2022)

PUBLIC OUTREACH AND ENGAGEMENT

3. Community involvement in the Climate Action Plan process was integral to the development and prioritization of GHG reduction and climate adaptation measures. Between January 2021 and May 2021, the County conducted the following community engagement activities:
 - Tuolumne County Board of Supervisors Planning Committee Presentations
 - January 28, 2021

- March 18, 2021
 - May 20, 2021
 - Tuolumne County Board of Supervisors Natural Resources Committee Presentations
 - February 10, 2021
 - March 10, 2021
 - May 12, 2021
 - Virtual Community Workshops
 - February 25, 2021
 - April 8, 2021
 - May 25, 2021
4. The Board of Supervisors Committee meetings served as an opportunity for the County to present and solicit input on CAP developments prior to sharing with the broader community. The content was largely similar for both the Committee meetings and community workshops, with the workshops including a variety of virtual tools to help facilitate discussion and encourage input. The virtual tools included polling questions, breakout rooms, and a virtual whiteboard platform.
 5. In addition, the County hosted an online engagement platform (Konveio) that was available through the County’s website in 2021 and promoted at the Board of Supervisors Committee meetings and community workshops. The online engagement platform included project information, previous presentations, draft climate strategies for comment, and surveys to prioritize draft climate strategies.
 6. On July 20, 2021, CDD staff presented a project update to the Board of Supervisors and held a discussion regarding the benefits and considerations of developing the Climate Action Plan in a way that is qualified under the California Environmental Quality Act (CEQA) Guidelines Section 15183.5. This provision of the CEQA Guidelines allows for future discretionary projects to tier from the CAP for GHG analyses. During this Board of Supervisors meeting, your Board decided to not pursue CEQA qualification for the Climate Action Plan. However, to provide future discretionary projects with assistance for GHG analyses, your Board directed staff to provide project-level GHG thresholds that could be used by future discretionary projects using the GHG inventory and targets included in the Climate Action Plan. These thresholds can be found in Chapter 5 of the Climate Action Plan.

OVERVIEW OF THE CLIMATE ACTION PLAN

7. This Climate Action Plan provides the County with a comprehensive guiding document to address the challenges of climate change. The CAP serves to reduce greenhouse gas (GHG) emissions from local sources, strengthen resilience to prepare for and adapt to climate change impacts, and implement solutions to better manage natural resources within the county. The CAP is consistent with and complementary to statewide legislation and regulatory mandates. It establishes locally based strategies, measures, and actions that will not only reduce GHG emissions and enhance climate resilience, but will also improve the livability and quality of life for residents, workers, and visitors of the county.
8. The County initiated a scoping phase for the project in early 2020. For the second phase of the project, which began in October 2020, the County prepared GHG emissions inventories and forecasts, set GHG reduction targets, and conducted a climate change vulnerability assessment. After completing these tasks in June 2021, the County developed GHG emissions reduction and adaptation strategies, measures, and actions to be included in the CAP. These efforts created the foundation for developing the CAP document, which occurred between September 2021 and March 2022.
9. The CAP is divided into five main chapters. Chapter 1 introduces the county, outlines the objectives and organization of the CAP, and describes existing legislation and efforts aimed at addressing climate change. Chapter 2 summarizes the county’s baseline GHG emissions, presents a forecast of

future emissions, and identifies the County’s emissions reduction targets. An overview of the climate adaptation planning process and a summary of the county’s climate change vulnerability assessment are included in Chapter 3. The core of the CAP – the GHG reduction and adaptation strategies and measures – are included in Chapter 4, organized into five focus areas: Health and Safety, Conservation and Recreation, Buildings, Infrastructure, and Agriculture and Forestry. Each focus area contains strategies and measures that the County will implement to reduce GHG emissions and strengthen community resilience to climate change impacts. Chapter 5 provides a framework for implementing, monitoring, and updating the CAP in the future.

10. Each focus area in Chapter 4 presents strategies that serve as the foundation to help the County achieve its climate change goals. Within each strategy are one or more measures that represent specific expressions of the broad strategies. Climate change mitigation and adaptation objectives are intertwined throughout the strategies and measures. Chapter 5 includes actions associated with each measure that define the activities, projects, programs, or policies that the County can implement or support to advance its GHG reduction and adaptation goals.
11. Each CAP action was evaluated qualitatively for its GHG reduction potential and climate resilience benefit. Actions were assigned a score of 1, 2, or 3 for each metric, which correspond to a low, medium, or high GHG reduction potential and low, medium, or high climate resilience benefit. The icons shown below are used throughout the CAP to indicate the score for GHG reduction potential and climate resilience benefit. Additional information regarding the scoring can be found in Chapter 5.

PUBLIC COMMENT AND RESPONSES

12. The Draft CAP was available for public review from May 2, 2022 to June 15, 2022. Staff presented the Draft CAP to the Board of Supervisors Planning Committee on May 19, 2022, and the Board of Supervisors Natural Resources Committee on June 1, 2022, both of which were open to the public. At the conclusion of the 45-day comment period, letters were received from 1 public agency, 5 organizations, and 42 individuals. These comments can be reviewed on the project webpage at: <https://www.tuolumnecounty.ca.gov/1332/Climate-Action-Plan>.
13. Common themes were found throughout the comments received on the Draft CAP. CDD staff prepared a “Frequently Asked Questions” (FAQ) document addressing comments received on the Draft CAP and published the document on July 19, 2022. The FAQ document can be found on the project website: <https://www.tuolumnecounty.ca.gov/1332/Climate-Action-Plan>. The FAQ document addresses the following topic, among others:
 - Scope of the climate action plan in terms of planning jurisdiction, geography, and requirements
 - Cost and feasibility of climate action strategies, measures, and actions
 - Implementation and prioritization of climate action strategies, measures, and actions
 - Forest health initiatives
14. The Natural Resources Committee discussed the role of forest health in the overall reduction of greenhouse gas emissions and raised concerns that the important work of the Yosemite Stanislaus Solutions (YSS) organization was not recognized in the CAP. Healthy forests provide direct benefits to the community, including wildfire and drought resilience, and they also play a role in mitigating climate change. Building the long-term resilience of forests in the county boosts public safety, improves local air quality, enhances water quality and supply, and increases carbon sequestration. The CAP identifies the importance of forest health in Strategy 6, Forest Resilience in under the “Agricultural and Forestry” strategies in Chapter 4. The YSS is specifically identified in Section 2.3.3, “Adaptive Efforts Related to Increased Wildfire Risk” which recognizes the important and collaborative work that YSS is leading by enhancing forest management actions that aggressively reduce forest fuels and restore forests to conditions that are resilient to wildfire.

15. After reviewing the comments from the public review period several changes were incorporated in the Climate Action Plan. These proposed changes can be found in Exhibit A.
The Final Climate Action Plan will be revised to reflect these revisions, or any others as approved by the Board of Supervisors.

PRIORITIZATION MATRIX - WORKPLAN

16. Effective implementation of this CAP will require ongoing management and oversight of measure implementation. Ensuring that the measures identified in the CAP result in emissions reductions and resilience improvements is central to the success of this CAP. Achieving these goals will require investments and long-term commitments from the County as well as participation from County staff. The success of CAP implementation will also depend on the participation of residents, businesses, and other stakeholders in the county.
17. To help guide the implementation of CAP measures and actions, the County developed a Prioritization Matrix – Workplan, located in Chapter 5 of the CAP. This involved evaluating each action considering a variety of factors, including GHG reduction potential, climate resilience benefit, jurisdictional control, timeframe of implementation, technological feasibility, public and private cost-effectiveness, and associated co-benefits, to generate a prioritization score. By directing staff to implement the Prioritization Matrix – Workplan matrix, it narrows the scope of work and focuses the future review of the CAP.
18. The Prioritization Matrix – Workplan is attached in Exhibit B to this report, and the initial implementation of the CAP would be limited to these actions. The remaining actions identified in Appendix C would to be included for future phases or implementation, if the prioritization score improved (due to a change in a scoring factor). The Board of Supervisors would be responsible for approving any changes to the prioritization matrix.

ENVIRONMENTAL DOCUMENTATION

19. After reviewing the project and its setting, the Environmental Coordinator for the County of Tuolumne has determined that the Climate Action Plan is categorically exempt from review under the California Environmental Quality Act pursuant to Section 15308 of the State CEQA Guidelines because the project entails an action taken by a regulatory agency for protection of the environment. None of the exceptions to the use of a categorical exemption found in Section 15300.2 of the State CEQA Guidelines apply to this project.

RECOMMENDATION

It is requested that your Planning Commission recommend that the Board of Supervisors adopt the Climate Action Plan with the recommended revisions identified in Exhibit A, including the prioritization matrix workplan in Exhibit B.

Exhibit A. Proposed Revisions to the Draft Climate Action Plan (updated 8/15/2022)

After reviewing the comments from the public review period, staff determined that several changes were necessary in the Climate Action Plan. These proposed changes include the following revisions (underline = addition, strikethrough = deletion):

Draft CAP Page Number		Measure/Action Number	Proposed Revision	Source of Proposed Revision
ES-8, 4-37, and 5-9	Agriculture and Forestry	Measure 6.3	Manage vegetation and reduce wildfire risk to promote <u>carbon</u> sequestration.	Randy Hanvelt Comment Letter
3-10	N/A	N/A	The county's water supply relies on surface water runoff originating from high-elevation snowpack in the Sierra Nevada, which is stored in large small storage reservoirs at lower elevations.	Tuolumne Utilities District Comment Letter
Appendix C page 9	Infrastructure	Action 3.3.1	Install EV charging stations and alternative fuel stations throughout the County for public use. Prioritize installations in parking lots and other applicable locations (e.g., parks) owned or managed by the County. <u>The County will seek state and federal grant funding to provide a minimum of 50 new Level 2 EV charging stations and at least 10 DC Fast Charge EV charging stations within 5 years.</u>	CSERC Comment Letter
N/A	Infrastructure	Action 3.1.8 (new action)	<u>The County will streamline the application permitting process for EV charging stations so that tourist-serving businesses can advertise to EV owners the location of charging stations when traveling within Tuolumne County.</u>	CSERC Comment Letter
Appendix C page 9	Infrastructure	Action 2.2.1	Support TCT to transition <u>at least 2/3 of its transit fleet to EVs and/or alternatively fueled vehicles by 2030</u> its vehicle fleet to EVs and alternatively fueled vehicles and install associated EV charging and alternative fueling infrastructure, in compliance with the California Air Resources Board's Innovative Clean Transit Regulation.	CSERC Comment Letter
N/A	Infrastructure	Action 4.1.6 (new action)	<u>The County will coordinate with regional economic partners, such as the Sierra Business Council, to pursue grant funding to analyze and identify a minimum of four potential cost-effective and feasible sites for the establishment of new solar farms, wind farms, or similar clean power energy sites within Tuolumne County.</u>	CSERC Comment Letter

N/A	Buildings	Action 1.1.6 (new action)	<u>The County will look for ways to provide incentives for new development projects that install EnergyStar-rated appliances, that utilize carbon-free energy in the building design, and that exceed minimum State-required energy efficiency use mandates.</u>	CSERC Comment Letter
N/A	Buildings	Action 2.1.8 (new action)	<u>The County will seek essential grant funding to enable existing residential and commercial buildings to be retrofitted with energy-efficient lighting, heating/cooling, and insulation so as to save participating property owners money, while reducing GHG emissions.</u>	CSERC Comment Letter
Appendix C page 7	Buildings	Action 2.2.1	Conduct detailed assessments and develop retrofit plans specific to each existing County-owned building based on the age, type, energy consumed, and climate-related risks. Prioritize buildings and facilities with the highest energy use per area. <u>Seek grant funding for energy efficiency upgrade projects in order to significantly upgrade the energy efficiency of at least 25 percent of County facilities within 10 years.</u>	CSERC Comment Letter
4-11	Conservation and Recreation	Measure 1.3	Conserve areas, such as wildlife habitat and corridors, wetlands, and watersheds, and groundwater recharge areas, that provide carbon sequestration benefits.	Supervisor Brandon
4-19	Buildings	Measure 3.1	Actions that could be included under this measure include installing backup power sources at critical facilities, diversifying backup energy generation and installing battery storage systems (<u>including lithium-ion, hydrogen, and other emerging technologies</u>), improving blackout preparedness, establishing onsite backup power at County buildings, and promoting outreach materials and incentives for battery storage and clean backup power systems.	Supervisor Brandon
4-25	Infrastructure	Measure 4.1	Actions that could be taken under this measure include increasing the development of renewable energy systems suitable for the county, incentivizing local clean energy production and infrastructure projects, and prioritizing climate resilience in energy and transmission systems planning. <u>Renewable energy systems that are installed in the county should be able to operate in all weather conditions and should consider financial and safety constraints to ensure the well-being of residents and visitors.</u>	Supervisor Brandon
4-26	Infrastructure	Measure 5.1	Reduce <u>per capita</u> water consumption.	Supervisor Brandon

5-7	Infrastructure	Action 4.1.2	Encourage development of alternative energy-producing facilities that conserve the county's natural resources such as rooftop solar and wind turbines, <u>as well as emerging battery technologies and the use of green hydrogen.</u>	Supervisor Brandon
General Text Changes/Additions Added 8/15/2022				
Page	Section	<u>Additions/Deletions</u>		
2-3	Baseline Inventory Section, Chapter 2	<p>Quantifying emissions from fires and forest management is an evolving area of science and it is possible that future State inventories will include these sources of emissions. For the first time, CARB and the California Department of Forestry and Fire Protection developed a draft report (released in December 2020) that presents statewide estimates of GHG emissions associated with wildfires and prescribed burning activities for 2000–2019 but these estimates are not yet available for the local level.</p> <p><u>The U.S. Community Protocol currently does not include methodologies for wildfire related GHG emissions and the State of California does not currently include wildfire emissions in the statewide inventory. Quantifying emissions from fires and forest management is an evolving area of science and it is possible that future State inventories will include these sources of emissions. Estimating how much wildfire emissions alter GHG concentrations and contribute to climate change is difficult, because wildfire emissions are a part of the terrestrial carbon cycle.</u></p> <p><u>The terrestrial carbon cycle transfers carbon between the land, ocean, and atmosphere. The cycle is balanced over decades or centuries by fire, plant respiration and decomposition versus plant growth and other. If the cycle is balanced, biogenic carbon dioxide (CO₂) emissions from fire and other sources are offset by biogenic CO₂ sequestration, resulting in relatively minimal change in the total concentration of atmospheric CO₂ that drives climate change. However, with the combustion of fossil fuels at the rates we have recently experienced, this cycle is put out of balance. Fossil fuels also contribute to a negative feedback loop for California’s forests and lands: as CO₂ emissions accumulate in the atmosphere and we experience increased warming, extreme heat events, droughts, and invasive species, the risk and intensity of fires also increases, which in turn push the terrestrial carbon cycle further out of balance (CARB, FAQ, Wildfire Emissions: https://ww2.arb.ca.gov/wildfire-emissions). Because of this effect, CARB works to understand and track both the total GHG emissions from anthropogenic</u></p>		

		<p><u>sources, like the combustion of fossil-fuels, and the total carbon flux (or <i>net</i> change in carbon on the landscape) from terrestrial carbon.</u></p> <p><u>Looking year-over-year at the data in the inventory, we can see clear trends of carbon-loss in California's natural and working lands, with most of those losses coming from wildfires. Using preliminary fire footprint information, the CARB/CALFRIE report discussed above, released a draft estimate of 2020 wildfire GHG emissions, which was the worst fire year on record (by acres burned) for the California. The emissions estimate, 112 (MMTCO₂), is equivalent to the amount of carbon contained in the structural lumber of 6.3 million average California homes, or over 75 percent of all homes in California. (CARB, FAQ, Wildfire Emissions: https://ww2.arb.ca.gov/wildfire-emissions)</u></p> <p>Therefore, because of a lack of available methods to quantify locally and predict future wildfire occurrences in an accurate manner, these emissions are not included in the County's inventory.</p>
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Prioritization Matrix

Based on the assessment approach described above, the maximum prioritization score for each action was 25. To enable the County to focus on and feasibly implement high-priority actions, a minimum score of 15 was chosen as the threshold for the inclusion of an action in the CAP. The 29 actions with prioritization scores greater than 15 are included in the summarized prioritization matrix below, which presents each action’s overall prioritization score, the agency responsible for implementation, and the recommended timing for implementation (i.e., ongoing – already occurring, near-term – within three to five years, or mid-term – within 10 years), which is based on the two previous factors above as well as additional considerations such as community values and priorities that may not be reflected elsewhere. The full prioritization matrix with all factor scores can be found in Appendix C. Details regarding monitoring, ongoing engagement, potential funding sources, and GHG emissions thresholds are included in the sections following the matrix.

Measure	Action	Timing	Implementing Agency	Prioritization Score
HEALTH AND SAFETY				
STRATEGY 4. FIRE-ADAPTED COMMUNITY				
Measure 4.2: Increase the use of defensible space strategies to reduce wildfire property damage for properties located in high-wildfire risk zones in the county using guidance and requirements pursuant to Assembly Bill (AB) 3074 of 2020 (Fire Prevention).	Action 4.2.1. Continue to support the Tuolumne County Fire Department (TCFD) Fire Safety Inspection Program and the Tuolumne FireSafe Council's fuel break projects and education and outreach efforts regarding defensible space strategies.	Ongoing	Fire Department, Office of Emergency Services	15

Tuolumne County Climate Action Plan

Measure	Action	Timing	Implementing Agency	Prioritization Score
CONSERVATION AND RECREATION				
STRATEGY 1. ECOSYSTEM PRESERVATION AND CONSERVATION				
<p><i>Measure 1.1:</i> Enhance the protection of the county's natural assets and ecosystems and expand natural capital throughout the county, while building climate resilience in the environment.</p>	<p>Action 1.1.1. Support Yosemite Stanislaus Solutions, Tuolumne River Trust, and other stakeholder organizations in their efforts to protect and enhance the county's natural environment and improve climate resilience.</p>	Ongoing	County Administration Office, Office of Emergency Services	17
	<p>Action 1.1.2. Protect and restore river basins, watersheds, and ecosystems.</p>	Ongoing	Community Development Department	15
<p><i>Measure 1.3: Conserve areas, such as wildlife habitat and corridors, wetlands, and watersheds, and groundwater recharge areas, that provide carbon sequestration benefits.</i></p>	<p>Action 1.3.1. Within identified communities, retain oak woodland habitat as much as practical. Efforts could include incorporating oak woodland into landscaped or public spaces to enhance project site aesthetics, using oak woodlands as visual buffers between land uses, and using oak woodland habitat to maintain slopes and reduce onsite runoff.</p>	Ongoing	Community Development Department	17
BUILDINGS				
STRATEGY 1. ENERGY-EFFICIENT BUILDINGS AND RESILIENT NEW BUILDINGS				
<p><i>Measure 1.1:</i> Increase energy efficiency and climate resiliency in all new buildings.</p>	<p>Action 1.1.1. Explore building "reach" codes that include energy efficiency measures that go beyond State requirements for new construction.</p>	Near-term	Community Development Department	15
<p><i>Measure 1.2:</i> Require all new County-owned buildings and facilities to be energy efficient and climate resilient.</p>	<p>Action 1.2.1. Establish a policy to require new County buildings to be constructed to meet a high energy efficiency standard such as the California Green Building Standards Code (CalGREEN).</p>	Near-term	County Administration Office, Community Development Department	16

Tuolumne County Climate Action Plan

Measure	Action	Timing	Implementing Agency	Prioritization Score
STRATEGY 2. ENERGY-EFFICIENT AND RESILIENT EXISTING BUILDINGS				
Measure 2.1: Increase energy efficiency and climate resiliency in existing residential and nonresidential buildings.	Action 2.1.1. Partner with energy utility providers, building contractors, and other stakeholders to implement an Energy-Resilient Buildings Program modeled after a Regional Energy Network program that focuses on energy efficiency retrofits, improving climate-control (cooling), wildfire smoke and ventilation systems, and energy independence in existing buildings.	Near-term	Community Development Department, Innovation and Business Assistance Department	19
	Action 2.1.2. Facilitate conversations with homeowners, landlords, and tenants about energy conservation, energy efficiency best practices, green infrastructure, and anticipated monetary savings associated with retrofitting buildings.	Near-term	Community Development Department	15
	Action 2.1.3. Prioritize low-income homeowners and renters as part of the Energy-Resilient Buildings Program and provide information and educational materials to residents focused on cost-effective strategies to keep homes cool during extreme heat events (i.e., four or more consecutive days when the maximum temperature is above 88.6 °F).	Near-term	Community Development Department, Office of Emergency Services	15
Measure 2.2: Require all existing County-owned buildings and facilities to be energy efficient and climate resilient.	Action 2.2.1. Conduct detailed assessments and develop retrofit plans specific to each existing County-owned building based on the age, type, energy consumed, and climate-related risks. Prioritize buildings and facilities with the highest energy use per area. <u>Seek grant funding for energy efficiency upgrade projects in order to significantly upgrade the energy efficiency of at least 25 percent of County facilities within 10 years.</u>	Mid-term	Community Development Department, County Administration Office	15

Tuolumne County Climate Action Plan

Measure	Action	Timing	Implementing Agency	Prioritization Score
INFRASTRUCTURE				
STRATEGY 4. RESILIENT AND CLEAN ELECTRICAL GRID				
Measure 4.1: Transition to 100 percent clean electricity.	Action 4.1.1. Where feasible, develop renewable energy generation capacity at County-owned buildings and facilities.	Mid-term	County Administrative Office, Community Development Department	15
	<u>Action 4.1.2. Encourage development of alternative energy-producing facilities that conserve the county's natural resources such as rooftop solar and wind turbines, as well as emerging battery technologies and the use of green hydrogen.</u>	Near-term	Community Development Department, Public Works Department	16
	Action 4.1.3. Adopt a community solar program to help realize economies of scale and help residents without appropriate rooftop space to participate in green energy generation.	Near-term	Community Development Department, Public Works Department	17
	Action 4.1.4. Encourage energy development and transmission systems planning that prioritizes climate resilience, efficiency, and local benefit.	Mid-term	Community Development Department, County Administration Office	15
	Action 4.1.5. Provide incentives for clean energy infrastructure and community-based energy projects, prioritizing local renewable energy production.	Mid-term	Community Development Department, County Administration Office	17
	<u>Action 4.1.6. The County will coordinate with regional economic partners, such as the Sierra Business Council, to pursue grant funding to analyze and identify a minimum of four potential cost-effective and feasible sites for the establishment of new solar farms, wind farms, or similar clean power energy sites within Tuolumne County.</u>	<u>Near-term</u>	<u>Community Development Department, County Administration Office</u>	<u>16</u>

Tuolumne County Climate Action Plan

Measure	Action	Timing	Implementing Agency	Prioritization Score
Measure 4.2: Reduce electricity grid demand through load reduction strategies.	Action 4.2.1. Encourage installation of battery storage in conjunction with renewable energy generation projects through engagement campaigns and partner agency incentives.	Near-term	Community Development Department, Office of Emergency Services	16
	Action 4.2.2. Assess the feasibility and cost effectiveness of microgrid technologies to increase energy independence for County operations, businesses, and residents during Public Safety Power Shutoff events.	Near-term	County Administration Office, Office of Emergency Services	15
STRATEGY 6. GREEN INFRASTRUCTURE				
Measure 6.1: Increase the use of green infrastructure in County projects.	Action 6.1.1. Require green infrastructure to be integrated into all new County-owned buildings and facilities.	Mid-term	County Administration Office, Public Works Department	
AGRICULTURE AND FORESTRY				
STRATEGY 1. LIVESTOCK MANAGEMENT				
Measure 1.1: Implement best practices for livestock management.	Action 1.1.1. Work with the County Agricultural Commissioner's office to facilitate forums, training sessions, and capacity-building activities for local farms to continue to implement manure management best practices.	Near-term	Agricultural Commissioner	15
	Action 1.1.2. Uphold traditional livestock grazing rights to manage vegetation, protect soil and water, and protect the stability of the communities that depend on range resources.	Near-term	Agricultural Commissioner, Farm Advisor	16
STRATEGY 2. ENERGY-EFFICIENT AGRICULTURE				
Measure 2.2: Implement agricultural best practices that improve energy efficiency.	Action 2.2.1. Promote energy conservation; increased energy and water use efficiency; and on-farm solar, wind, and other renewable energy production.	Near-term	Agricultural Commissioner, Community Development Department	16

Tuolumne County Climate Action Plan

Measure	Action	Timing	Implementing Agency	Prioritization Score
STRATEGY 3. CLIMATE-RESILIENT AGRICULTURE				
Measure 3.1: Implement agricultural best practices that improve resilience to climate impacts.	Action 3.1.1. Encourage mapping of existing crop varieties against future climate projections such as extreme heat, drought, and flood risk. Adjust varieties to address those future conditions, selecting species that are native, drought-tolerant, and adapted to extreme heat.	Near-term	Agricultural Commissioner, Farm Advisor	16
	Action 3.1.2. Encourage networking among agriculture producers to share resources, tools, and knowledge about sustainable, efficient, and resilient agricultural practices.	Near-term	Agricultural Commissioner, Innovation and Business Assistance Department	17
Measure 3.2: Increase soil organic matter and carbon content.	Action 3.2.1. Develop programs to encourage compost application to enhance soil for carbon sequestration and healthy farms. Utilize existing programs and resources from the California Department of Food and Agriculture's Healthy Soils Program.	Mid-term	Agricultural Commissioner, Farm Advisor	17
	Action 3.2.2. Support regenerative farming systems that use perennial groundcover, rotational grazing systems, and other natural approaches to increase crop diversity and improve soil health and soil organic matter, while ensuring fair incomes for farmers.	Near-term	Agricultural Commissioner, County Administration Office	18
	Action 3.2.3. Encourage farmers and other key stakeholders to pursue innovative agricultural practices that increase the amount of carbon that is removed from the air and stored in soils and working lands.	Near-term	Agricultural Commissioner	16
STRATEGY 6. FOREST RESILIENCE				
Measure 6.1: Improve long-term forest resilience.	Action 6.1.1. Continue to support existing projects and organizations including Yosemite Stanislaus Solutions to ensure the long-term health of forests in areas under the County's jurisdiction, as well as	Ongoing	Fire Department, Community Development Department	17

Tuolumne County Climate Action Plan

Measure	Action	Timing	Implementing Agency	Prioritization Score
	areas managed by State and federal agencies. Balance and integrate fuel modification efforts with habitat and open space management, vegetative soil cover/erosion management, and urban greening to reduce the potential for conflicts between safety and environmental goals.			
Measure 6.3: Manage vegetation and reduce wildfire risk to promote sequestration.	Action 6.3.1. Implement a vegetation management program to reduce wildfire risk and improve forest health.	Mid-term	Fire Department, Community Development Department	15
	Action 6.3.2. Develop vegetation management programs that support enhanced carbon storage in forests, use of durable wood products, and use of wood biomass for energy, while maintaining healthy forest ecosystems.	Mid-term	Fire Department, Community Development Department	15

