



8 – IMPLEMENTATION

The County recognizes that a clear and practical implementation program is necessary to achieve our 2020 and 2035 goals and reduction targets. Overcoming climate change will require everyone—government agencies, businesses, nonprofit organizations, residents, and County staff—to work together to implement this Plan collaboratively with regional, state, and national activities.

This Implementation Program (Program) provides a strategy for action with specific measures and steps to achieve the identified reduction targets. The Program identifies responsible departments, potential costs to the County and community, cost savings, time frames for action, and the indicators that will be used to measure progress. The Implementation Program for community-wide measures notes the applicability of each measure to new or existing development and identifies the co-benefits that will occur in addition to reducing greenhouse gas (GHG) emissions.

These matrices allow staff, the Board of Supervisors, partner agencies, stakeholders, and interested parties to track measures of interest and to monitor progress. Each reduction measure is prepared with the best intentions; however, implementation requires oversight and political, organizational, and financial commitment. County costs, community costs, and community savings are presented as metrics for simplicity.

This chapter provides two essential tools for implementation: a designated goal and accompanying measures and actions specific to implementation and a detailed Implementation Program (refer to **Tables 8-2** and **8-3**).





IMPLEMENTATION GOALS AND MEASURES

IMPLEMENT THE ENERGYWISE PLAN

GOAL: THE ENERGYWISE PLAN WILL BE IMPLEMENTED TO REDUCE GREENHOUSE GAS EMISSIONS FROM COMMUNITY-WIDE AND COUNTY OPERATIONS SOURCES BY A MINIMUM OF 15% FROM THE 2006 BASELINE EMISSIONS BY 2020.

The following implementation measures accompany the emissions reduction measures presented in Chapters 5 and 6.

Bi-Annually monitor and report the County's progress toward achieving the reduction target.

Supporting Action:

- Provide support to the County's Green Team to facilitate implementation of measures and actions related to County operations.
- Prepare a bi-annual progress report for review and consideration by the Board of Supervisors. Consider integration of performance indicators into the Department of Planning and Building's Annual Resource Summary Report.
- Develop a monitoring and reporting tool to assist with annual reports.
- Identify key staff responsible for annual reporting and monitoring.

Update the baseline greenhouse gas emissions inventory every five years.

Supporting Actions:

- Initiate the 2010 baseline GHG inventory no later than 2013 (or at a time directed by the Board of Supervisors).

Continue to develop partnerships that support implementation of the EnergyWise Plan.**Supporting Actions:**

- Continue formal memberships in local and regional organizations that provide tools and support for energy efficiency, energy conservation, greenhouse gas emissions reductions, adaptation, education, and implementation of this Plan.

Maintain funding to implement the EnergyWise Plan.**Supporting Actions:**

- Identify funding sources for all reduction measures as part of bi-annual reporting.
- Ensure implementation through inclusion of emissions reduction and adaptation measures and actions implementation in department budgets, capital improvement programs, and other plans as appropriate.
- Pursue local, regional, state, and federal grants as appropriate to support implementation.

Integrate climate action and energy efficiency planning with other activities and programs in the county.**Supporting Actions:**

- Integrate the EnergyWise measures and actions into the General Plan, the Capital Improvement Plan, and department work plans as appropriate.





Review and update the EnergyWise Plan at least once prior to the year 2020.

Supporting Actions:

- Review and update the plan as appropriate following the adoption of the County's Land Use and Circulation Element update.
- Update the plan as necessary to ensure progress toward the County's reduction target and to comply with state regulations.

IMPLEMENTATION PROGRAM

Implementation Program Users Guide

Details on Implementation Program metrics are listed below.

Actions: Supporting actions for each reduction measure.

Implementation Time Frame: The implementation time frame is an important consideration in quantifying the GHG reduction impact that each measure will have, as many measures will have a cumulative impact on GHG emissions and delayed implementation will reduce the effectiveness of each measure in helping to achieve the GHG reduction targets. The time frame indicated for each measure will assist with budgetary and decision-making processes and ensure that measures are implemented in a logical order and timely manner. **Table 8-1** provides the list of time frames applied to reduction measures.

Table 8-1. Implementation Time Frames

Numeric Time Frame	General Time Frame
Continual	Ongoing
This Year	Immediate
1–5 Years	Near-Term
5–10 Years	Mid-Term
10+ Years	Long-Term

Table 8-2. Implementation Program

#	Policy Topic	Reduction Measure	Actions	2020 GHG Reductions (MTCO2e/yr)	2020 Progress Indicators	County Costs	Community Costs	Community Savings	Implementation Time Frame	Responsible Agencies
Goal: Address future energy needs through increased conservation and efficiency in all sectors.										
1	Energy Conservation Programs	Collaborate with local utility providers, educational institutions, and stakeholders to develop effective energy conservation campaigns through energy competitions and to provide targeted marketing for new and existing conservation programs.	<ul style="list-style-type: none"> Work with local utility providers to develop a competition between the communities within SLO County to reduce total energy consumption over an extended period of time (6 months to 1 year). Continue to encourage and promote utility provider energy conservation programs for residential, commercial, industrial, agricultural, and governmental buildings. Develop and host a community web portal to streamline access to community and institutional sustainability websites. Continue to recognize and encourage conservation programs and educational outreach conducted by industry organizations, non-governmental entities, and government agencies. 	-2,870	5% household participation and 1% business participation in energy competition program. 1% of population voluntarily conserve 10% of energy use. 5% of large commercial facilities retrocommissioned.	Low-Mid	Low	Medium	Near-Term	Planning and Building
2	Low-Income Weatherization	Promote existing low-income energy conservation and weatherization programs and coordinate with local utility providers and nonprofit corporations to develop additional energy efficiency programs.	<ul style="list-style-type: none"> Continue to encourage investment in energy efficiency through Community Action Partnership (CAPSLO) and utility provider low-income weatherization programs. Support the Community Action Partnership's provision of free energy services to low-income households, including weatherization, furnace repair, and water heater replacement. 	-1,120	75 households retrofitted annually 750 households retrofitted by 2020	Minimal	Minimal	Low-Mid	Ongoing	Planning and Building
3	Energy Efficiency Financing	Develop and adopt an energy efficiency retrofit program to increase energy efficiency in existing commercial, residential, governmental, and industrial facilities.	<ul style="list-style-type: none"> Develop an energy efficiency financing program (through PACE, Energy Upgrade California, or other mechanisms) allowing property owners to invest in energy efficiency upgrades for their buildings. Encourage and assist voluntary actions including financing programs, by owners of existing commercial and residential buildings for energy efficiency retrofits, such as the installation of solar panels, wind turbines, green roofs, cool roofs, natural lighting, and other long-term, permanent energy conservation installations. 	-11,430	15% of households and 10% of businesses participating. Average electricity savings of 10%. Average natural gas savings of 25%.	Low-Mid	Medium	Medium-High	Mid-Term	Planning and Building
4	Energy Efficiency in Existing Buildings	The County will collaborate with the incorporated cities in the county to develop and implement a countywide program to: 1) conduct energy audits or provide EPA Home Energy Scores for residential buildings; 2) disclose energy use history of non-residential buildings; and 3) prepare an energy conservation ordinance to reduce electricity and natural gas use by implementing energy efficiency measures identified in the energy audits.	<ul style="list-style-type: none"> Seek funding and financing options. Explore options for energy audits conducted by the property owner, a certified building inspector, buyer or seller. Comply with State Law, AB 1103, to require all non-residential properties to provide buyers or tenants with the previous years' energy use by documenting use through the EPA's Energy Star Portfolio Manager or through some other mechanism. Allow in-lieu fees for new development to be utilized for retrofitting existing buildings with energy-efficient fixtures in lieu of energy efficiency measures for new buildings. Evaluate options for an energy conservation ordinance. For example, implement energy efficiency measures identified in energy audits. 	-9,580	3,200 residential units audited and 16% of nonresidential properties audited. 20% average energy savings per residential building and 25% for nonresidential buildings.	Low	Medium-High	Medium-High	Near-Term	Planning and Building

#	Policy Topic	Reduction Measure	Actions	2020 GHG Reductions (MTCO2e/yr)	2020 Progress Indicators	County Costs	Community Costs	Community Savings	Implementation Time Frame	Responsible Agencies
			By a date certain for residential and non-residential buildings; and/or For major remodels or additions; and/or For pre-1990 structures or structures in certain climate zones; or At the time of sale.							
5	Workforce Training Programs	Continue to seek funding and support green building and weatherization training programs like the SLO County Workforce Investment Board's program funded by the California Clean Energy Workforce Training Program.	<ul style="list-style-type: none"> • Support existing workforce training programs. • Continue to educate staff and the public about green building through partnerships with local nonprofit organizations (SLO Green Build), professional planning and building organizations (USGBC C4), and local agencies. 	Supporting Measure – Not Quantifiable	1,000 participants trained	Minimal	Minimal	Minimal	Ongoing	Planning and Building
6	Smart Grid Technology	Work with local utility providers to implement smart grid technology in new and existing residential and nonresidential properties.	<ul style="list-style-type: none"> • Encourage expedited installation of real-time energy monitoring (such as smart meters) for natural gas, electricity, and water meters on all residential and nonresidential buildings consistent with Board of Supervisors Resolution 2011-62. • Work with the utility companies to develop a web-based application or install energy monitors to provide customers with real-time feedback on their energy consumption and related costs. • Encourage building users to install smart grid integrated appliances that can be automated to run when electricity costs are lowest and controlled remotely through a web or phone application. • Encourage the installation of energy monitors and smart grid appliances in new residential and nonresidential buildings as such appliances become commercially available and economically feasible. 	-7,930	50% of homes and businesses utilizing energy monitors	Minimal	Minimal	High	Near-Term	Planning and Building
7	Energy-Efficient New Development	Encourage and incentivize new development projects to exceed minimum Cal Green requirements.	<ul style="list-style-type: none"> • Require the use of energy-efficient equipment in all new development, including but not limited to Energy Star appliances, high-energy efficiency equipment, heat recovery equipment, and building energy management systems. • Amend community design plans, guidelines, and other documents to promote the following design techniques to maximize solar resources: <ul style="list-style-type: none"> – Passive solar design, thermal mass, and insulation to reduce space heating and cooling needs; – Shading on east, west, and south windows with overhangs, awnings, or deciduous trees; and – Sustainable site design and landscaping to create comfortable microclimates. • Encourage new projects to provide ample daylight within the structure through the use of lighting shelves, exterior fins, skylights, atriums, courtyards, or other features to enhance natural light penetration. • Minimize the use of dark materials on roofs by requiring roofs to achieve a minimum solar reflectivity index (SRI) 	-3,780	Percentage of new and renovated buildings complying with the Green Building Ordinance	Low-Mid	Medium	Medium	Mid-Term	Planning and Building

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#	Policy Topic	Reduction Measure	Actions	2020 GHG Reductions (MTCO2e/yr)	2020 Progress Indicators	County Costs	Community Costs	Community Savings	Implementation Time Frame	Responsible Agencies
			of 10 for high-slope roofs and 64 for low-slope roofs (CALGreen 5.1 Planning and Design). <ul style="list-style-type: none"> Minimize heat gain from surface parking lots by utilizing the following strategies for a minimum of 50% of the site's hardscape: <ul style="list-style-type: none"> Provide shade from the existing tree canopy or within five years of landscape installation; Provide shade from structures covered by solar panels; Provide shade structures or hardscape materials with a minimum SRI of 29; Use an open-grid pavement system (at least 50% pervious). Use light-colored aggregate in new road construction and repaving projects adjacent to existing cities and in some of the communities north of the Cuesta Grade. 							
8	Community Forestry Program	Pursue a comprehensive program to plant and maintain trees on County-maintained roads, medians, and public parking lots in the unincorporated communities. Expand the program to include tree planting on private property where owners wish to be part of the program. Encourage property owners to plant and maintain trees near structures to reduce building energy demand.	<ul style="list-style-type: none"> Continue tree replacement and mitigation requirements when removing trees with new development. Work with County and other government agencies and unincorporated communities to identify public lands suitable for large- and small-scale planting programs. Continue to require the protection of native trees on land proposed for development. Form partnerships with local advocacy and community groups to fund the planting and maintenance of street trees. Partner with government agencies and nongovernmental organizations to provide expertise, maintenance, incentives and free/low-cost trees to urban and rural property owners and agriculturists. Participate in community greening projects in five unincorporated communities through grants and community plans. Establish a website to disseminate tree planting information, solicit donations, and educate the public regarding the multiple benefits of tree planting programs. 	-790	6,500 new trees planted	Low	Low-Mid	Low-Mid	Ongoing	Planning and Building, Public Works
Goal: Increase the production of renewable energy from small-scale and commercial-scale renewable energy installations to account for 10% of total local energy use by 2020.										
9	Countywide Energy Collaborative	Build a collaborative network or organizational structure to work with the seven cities, other local and state agencies, investor-owned utilities, the California Energy Commission, and the California Public Utilities Commission to promote a wide range of energy efficiency and renewable programs.	<ul style="list-style-type: none"> Increase County participation and Energy Watch funding to localize existing programs such as commercial and residential direct install. Form a regional energy authority or other organizational structure that will include cities, the County, and state and local agencies. Evaluate a local "feed in tariff" for renewable energy distributed generation. Work with the utilities to establish other local energy-related programs such as public agency energy efficiency programs. Evaluate the development of a Community Choice Aggregation program with the incorporated cities in San Luis Obispo County to procure up to 50% of the region's electricity use from renewable resources by 2020. 	0 to -20,680	50% of electricity from renewable sources	High	Minimal	Minimal	Mid-Term	Planning and Building

#	Policy Topic	Reduction Measure	Actions	2020 GHG Reductions (MTCO2e/yr)	2020 Progress Indicators	County Costs	Community Costs	Community Savings	Implementation Time Frame	Responsible Agencies
			<ul style="list-style-type: none"> Establish a countywide energy office that will serve as a centralized location for energy efficiency and generation, energy financing, water conservation, green building and other sustainability programs. 							
10	Commercial-Scale Renewable Energy	Develop a comprehensive renewable energy strategy to encourage the commercial-scale installation of renewable energy projects within the county.	<ul style="list-style-type: none"> Complete the Renewable Energy Secure Community (RESCO) contract project by 2012. Use state, federal, or other available data to map areas that contain renewable energy resources by 2015. Designate and protect areas that contain renewable energy resources such as wind, solar, geothermal, and small hydroelectric. Continue participation in the Energy Watch Partnership. Amend the Land Use Ordinance to apply renewable energy overlay designations to areas identified in COSE Implementation Strategy E 6.8.1. 	Included in the Renewable Portfolio Standard	Megawatts of solar installed	Minimal	Minimal	Minimal	Long-Term	Planning and Building
11	Small-Scale Renewable Energy	Implement a financing program to provide property owners with low-interest loans for the installation of renewable energy resources (refer to Measure 3).	<ul style="list-style-type: none"> Revise County policies and regulations as needed to eliminate barriers to or unreasonable restrictions on the use of renewable energy. Designate and protect areas that contain potential small scale renewable energy resources such as wind, solar, geothermal, and small hydroelectric. Amend the Land Use Ordinance to apply small-scale renewable energy overlay designations to areas identified in the RESCO study. Also see COSE Implementation Strategy E 6.8.1 for commercial scale. Promote the development of sustainable energy sources and renewable energy projects through streamlined planning and development rules, codes, processing, and other incentives. Collaborate with stakeholder groups, including business and property owners, wineries, and other agricultural operations, to increase awareness of renewable energy systems, to streamline the permitting process, and to identify incentives. Assign a single point of contact within the County Planning and Building departments for energy efficiency and renewable energy project questions. 	-19,850	28 MW of renewable energy systems installed	Low	High	High	Mid-Term	Planning and Building
12	Renewable Energy Partnerships	Collaborate with local and state governmental agencies (California Men's Colony, Cal Poly, Cuesta College, etc.) and energy facility operators to develop renewable energy sources at existing facilities.	<ul style="list-style-type: none"> Work with PG&E, Cal Poly, and other organizations or businesses as appropriate to sponsor demonstration projects for community solar photovoltaic power, wind energy, and light-emitting diode (LED) lights for roads and parking lots. Seek funding and low-interest loan opportunities for local and state agencies to purchase and install renewable energy systems, with a goal of achieving 10% of total local and state agency energy use from on-site renewable energy installations by 2020. 	-760	2.5 MW of renewable energy installed	n/a	n/a	n/a	Ongoing	Planning and Building
<p>Goal: Reduce methane emissions from disposed waste by achieving as close to zero waste as possible through increased diversion rates, methane capture and recovery, and other strategies.</p>										
13	Recycling	Provide additional opportunities for county residents to recycle cardboard, glass, paper, and plastic products.	<ul style="list-style-type: none"> Incorporate new standards for trash collection enclosures in County ordinances. At a minimum, enclosures should accommodate two 4-yard containers. Support, promote, and recognize ongoing efforts of the business community, schools, universities, and nonprofit 	-6,170	Percentage of residents and businesses with access to recycling opportunities	Minimal	Minimal	Minimal	Mid-Term	Public Works, Planning and Building

#	Policy Topic	Reduction Measure	Actions	2020 GHG Reductions (MTCO2e/yr)	2020 Progress Indicators	County Costs	Community Costs	Community Savings	Implementation Time Frame	Responsible Agencies
			<ul style="list-style-type: none"> organizations to develop additional products and uses that expand the range of materials that can be recycled. • Nominate businesses and institutions for recognition through CalRecycle’s Waste Reduction Awards Program (WRAP). • Maximize collection and participation in curbside recycling through weekly collection of recyclables in all areas with recycling service. 							
14	Composting & Green Waste	Implement a composting and green waste program in those communities without them.	<ul style="list-style-type: none"> • Encourage the development of biomass, green waste, and food waste composting facilities (agricultural, residential, food service, commercial, industrial sources) for the proper management of organics in locations where land use conflicts can be minimized. • Work with IWMA, Cal Poly, the school districts, and other state and local agencies to develop a Countywide Food Waste Composting Programs for businesses, schools, and residents. • Implement a curbside green waste and food waste pickup in combination with existing green waste pickup, where feasible. • In locations where curbside green waste and food waste pickup is not feasible, encourage residents to install home composting equipment. • Partner with IWMA to develop a public education campaign for residents and businesses about composting and green waste opportunities. • Amend the County’s Land Use and Coastal Zone Land Use Ordinances (22.30.610) to require events that require a discretionary land use permit, to strive to achieve zero waste (or as close as possible) by recycling and composting the waste from each event. 	-3,230	Percentage of residents and businesses with access to food waste and green waste opportunities	Minimal	Minimal	Minimal	Mid-Term	Public Works
15	Construction & Demolition Waste	Reduce construction and demolition waste by requiring a minimum of 75% of nonhazardous construction and demolition debris generated on site to be recycled or salvaged.	<ul style="list-style-type: none"> • Update the Construction and Demolition Debris Recycling Ordinance to require increased C&D diversion rates that are phased in over the next 10 years. • Promote the continued use and development of material re-use facilities and programs like Habitat for Humanity’s ReStore and other private enterprises. Encourage the reuse of salvaged architecturally significant materials. • Work with the construction community to identify additional recycling opportunities needed to reach C&D diversion rates (e.g., painted lumber, Styrofoam packaging). • Encourage the use of post-consumer recycled content and/or certified sustainable production in building materials. • Encourage building design and materials production that minimize waste. 	-1,360	75% construction and demolition diversion rate	Low	Low	Low	Mid-Term	Public Works
16	Waste Hauling Fleet	Encourage waste haulers on contract with the County to use clean, alternative fuels for waste collection vehicles.	<ul style="list-style-type: none"> • Encourage the installation of alternative fueling stations and sites that are available for use by public and private vehicles, including waste fleets. • Support the Air Pollution Control District and other 	Supporting Measure – Not Quantified	Number of waste fleet vehicles using alternative fuels	Minimal	n/a	n/a	Mid-Term	Public Works, Planning and Building

#	Policy Topic	Reduction Measure	Actions	2020 GHG Reductions (MTCO2e/yr)	2020 Progress Indicators	County Costs	Community Costs	Community Savings	Implementation Time Frame	Responsible Agencies
			agencies in securing funding (through grants or other mechanisms) to continue to convert waste hauling fleets to cleaner, more efficient fuels like biodiesel or compressed natural gas.							
17	Landfill Methane Capture	Increase methane capture rates at all operating landfills in the county.	<ul style="list-style-type: none"> • Ensure landfills continue to apply best management practices for landfill design, operations, and closure/post-closure practices in compliance with state regulations. • Increase recovery of landfill gas for use as a biomass renewable energy source to replace energy from nonrenewable fossil fuel sources. • Assist landfills in developing best management practices and new technologies for reducing GHG emissions from active landfills. 	-13,120	Methane capture rate of 80% for Cold Canyon, Chicago Grade, and Paso Robles Landfills	Low	n/a	n/a	Long-Term	Public Works, Planning and Building
Goal: Reduce transportation emissions through improvements in vehicle fuel efficiency, expansion of non-auto modes of travel, and implementation of smart growth land use policies.										
18	Strategic Growth	Continue to implement strategic growth strategies that direct the county's future growth into existing communities and to provide complete services to meet local needs.	<ul style="list-style-type: none"> • Integrate higher-density development within existing communities using vacant or underutilized infill parcels and lands adjacent to existing development. • Establish minimum residential densities in the residential multi-family (RMF) land use category where resources are available. • Integrate complete streets policies and projects into updates of the Land Use and Circulation Element updates, Area Plans, and Community Plans. • Amend applicable ordinances to facilitate pedestrian circulation within and between commercial and mixed-use sites and nearby residential areas. • Update the countywide design guidelines to create maximum connectivity between neighborhoods, streets, and projects for pedestrian and bicycle travel. • Promote the use of ground-floor or street-oriented space in commercial and mixed-use centers for retail, food service, financial institutions, and other high-volume commercial uses. • Encourage new residential development to be within walking distance (1/2 mile or less) of public activity centers such as schools, libraries, parks, and community centers. • Provide incentives for mixed-use development and land banking strategies that encourage strategic growth and infill development. • Retrofit existing, older neighborhoods to improve connectivity, redesign circulation, and create walkable streets. 	Included in BAU Forecast	n/a	Medium-High	n/a	n/a	Long-Term	Planning and Building
19	Transit Accessibility	Work with the San Luis Obispo Regional Transit Authority, San Luis Obispo Council of Governments, local cities, transit providers, and other agencies to identify transit nodes appropriate for mixed-use development and promote transit-oriented development where appropriate.	<ul style="list-style-type: none"> • Amend applicable ordinances and policies to direct most new residential development away from rural areas and to concentrate new residential development in higher-density residential areas located near major transportation corridors and transit routes, where resources and services are available. • Add transit routes that provide intercity express services to provide efficient alternatives to auto trips. • Allocate adequate funding for long-term transit operations to ensure higher-density residential 	Included in BAU Forecast	Percentage of residents within a 1/2 mile of a transit stop	Low-Mid	n/a	n/a	Long-Term	Planning and Building

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			developments have access to transit opportunities.							
20	Affordable Housing	Continue to increase the amount of affordable housing provided in San Luis Obispo County. Affordable and below-market-rate housing provides greater opportunity for lower-income families to live closer to job and activity centers, providing residents with greater access to transit and alternative modes.	<ul style="list-style-type: none"> • Provide programs, incentives, and regulations for affordable mixed-use housing. • Encourage mixed-use development through affordable housing programs and regulations. 	-2,390 to -4,000	1,000 new below-market-rate housing units	Medium	Medium	Medium-High	Ongoing	Planning and Building
21	Bicycle & Pedestrian Network	Improve access to community-wide pedestrian and bicycle networks by removing barriers and providing additional bike- and pedestrian-oriented infrastructure.	<ul style="list-style-type: none"> • Amend applicable ordinances to direct new development to construct paths that connect land uses and other non-motorized routes and safe road crossings at major intersections. • Amend applicable ordinances to direct new development to provide secure, weatherproof bicycle parking and storage facilities and ensure the long-term maintenance of such facilities. • Identify abandoned rail rights-of-way not planned for transit or freight use, analyze the feasibility of their use for non-motorized transportation, and incorporate them into the County's Parks and Recreation Element, the Bikeways Plan, and the Non-Motorized Transportation Program of the Regional Transportation Plan as appropriate. • Support SLOCOG and local cities in the implementation of bicycle and pedestrian master plans to facilitate non-auto travel within and between communities. • Incorporate complete streets policies into the Circulation Element and implement complete streets policies on all future County roadway projects. • Support the expansion of Safe Routes to School Programs to all elementary and middle schools within the county and assess potential roadway improvements for increased safety within school zones. • Implement, monitor, and update the County Bikeways Plan. • Support SLO Regional Rideshare and SLO County Bicycle Coalition activities and programs that promote the increased use of bicycles for transportation and recreation. 	-1,600 to -8,050	Miles of bike lane and sidewalks	High	Low-Mid	High	Long-Term	Planning and Building, Public Works
22	Parking Supply Limits	Revise County parking requirements to ensure development meets the County's strategic growth objectives while providing alternative transportation choices to project residents and employees and efficient design options, as well as flexibility to project applicants. Specifically,	<ul style="list-style-type: none"> • Reduce minimum parking requirements in areas such as central business districts. • Work with developers to utilize in-lieu parking fees to develop concentrated parking where needed. • Amend applicable ordinances and codes to provide parking options and flexibility for mixed-use development. • Allow more affordable units without parking for project residents who do not wish to pay for it. • Revise parking requirements for public and new 	-2,010 to -19,670	Average shared parking reductions	Low-Mid	Low-Mid	High	Mid-Term	Planning and Building

#	Policy Topic	Reduction Measure	Actions	2020 GHG Reductions (MTCO2e/yr)	2020 Progress Indicators	County Costs	Community Costs	Community Savings	Implementation Time Frame	Responsible Agencies
		reduce parking requirements in areas where a variety of uses and services are planned in close proximity to each other and to transit.	commercial developments to include designated stalls for low-emitting, fuel-efficient vehicles and carpool/vanpool vehicles for a minimum of 8% of total parking capacity and to pre-wire stalls for future electric vehicle charging stations for 2% of total parking capacity.							
23	Unbundle Parking Costs	Parking and property costs will be separated to enable those who choose to utilize a parking space to do so at an additional cost separate from the cost of the property.	<ul style="list-style-type: none"> Amend applicable land use ordinances and policies to separate parking costs from development costs in appropriate places and sites. Modify the land use ordinance to allow more affordable units without parking for residents who do not wish to pay for it. 	-170 to -4,030	n/a	Low-Mid	Low-Mid	High	Mid-Term	Planning and Building
24	Commute Trip Reduction Programs	Continue to support voluntary commute trip reduction programs.	<ul style="list-style-type: none"> Support regional work centers and identify appropriate locations for shared-use, regional work centers for public and private use. Require new residential multi-family projects subject to discretionary review to create a transportation demand management (TDM) plan, which may include: <ul style="list-style-type: none"> Reduced parking for affordable, workforce, or senior housing Subsidized public transportation passes Car sharing, vanpools, shuttles, or ride-matching programs Require new or expanded commercial, industrial, public, or mixed-use projects with 25 employees or more to create a TDM plan which may include: <ul style="list-style-type: none"> Parking cash-out, Subsidized public transportation passes, Car sharing, vanpools, shuttles, or ride-matching programs, Bicycle parking and storage facilities, and Alternative work schedules, when applicable. Consider revisions to required traffic mitigation fees where vehicle trip reduction programs will be effectively implemented over the long term. Require new or expanded mixed-use, industrial, commercial, office, or residential development (with a minimum of 15 units per acre and/or 25 employees) to provide transit passes valid for at least one year to each resident or employee for the first year of project occupancy. Continue to support SLO Regional Rideshare and the SLO County Air Pollution Control District's programs and events. 	-1,700 to -3,850	Participation in SLO Regional Rideshare programs and events	Low	Low	Medium-High	Ongoing	Planning and Building
25	Alternative Fuels	Continue to expand the use and availability of alternative and low carbon fuels for vehicles and equipment.	<ul style="list-style-type: none"> Create a Neighborhood Electric Vehicle (NEV) network by identifying streets and locations appropriate for NEV use in the Circulation Element. Encourage existing car-sharing companies in San Luis Obispo County to expand to additional communities within the county. Participate in countywide efforts to establish an alternative fuel infrastructure network. Support and facilitate the development of alternative fuel technologies such as the installation of new or 	-5,280	Number of alternative fueling stations and participation in car-share programs	Medium	Medium	Medium-High	Long-Term	Planning and Building

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			retrofit of electric vehicle charging stations and alternative fueling stations. <ul style="list-style-type: none"> • Ensure that alternative fuel stations and support facilities are allowed uses in land use designations that currently allow gas and service stations. • Revise parking requirements for public and new commercial developments to include designated stalls for low-emitting, fuel-efficient vehicles and carpool/vanpool vehicles for a minimum of 8% of total parking capacity and to pre-wire stalls for future electric vehicle charging stations for 2% of total parking capacity. • Continue to participate in the Air Pollution Control District's Central Coast Clean Cities Coalition (C5) program. 							
Goal: Reduce emissions from potable water use by 20% from per capita baseline levels by 2020 by prioritizing water conservation before development of new water resources.										
26	Water Conservation: New Construction	Reduce potable water use by 20% in all newly constructed buildings by using the prescriptive or performance method provided in the California Green Building Code to demonstrate compliance.	n/a	-80	20% water savings from new development	Low	Low	Medium-High	Ongoing	Planning and Building
27	Water Conservation Retrofit	Continue to enforce retrofit upon sale requirements in Los Osos and the Nipomo Mesa and facilitate compliance with SB 407 in residential and commercial properties in other unincorporated areas of the County.	n/a	Included in Water Conservation: Existing Buildings	Number of homes and businesses retrofitted	Low-Mid	Low-Mid	Medium	Near-Term	Planning and Building
28	Tiered Water Rates	Implement tiered water rate structures to incentivize water conservation.	<ul style="list-style-type: none"> • Evaluate existing tiered water rates for incorporated cities and CSDs within the county to determine the most effective rate structures to incentivize water conservation in County Service Areas. • Through the Resource Management System, the County will track the use of tiered water rates in all water supplier areas in the county. 	Included in Water Conservation: Existing Buildings	Gallons of water saved	Medium	Low-Mid	Low-Mid	Mid-Term	Public Works
29	Water Conservation: Existing Buildings	Work with local CSDs to continue to implement indoor and outdoor conservation and rebate programs.	<ul style="list-style-type: none"> • Identify per capita water use baselines, using sub regional or community data where available. • Encourage homeowners, landlords, and tenants to install energy- and water-efficient fixtures and equipment. 	-40	Gallons of water saved	Low	Low	Low-Mid	Ongoing	Planning and Building
30	Water-Efficient Landscape	Reduce outdoor water use in new landscapes through compliance with the County's Water-Efficient Landscape Ordinance.	<ul style="list-style-type: none"> • Turf will not exceed 20% of the total site area on parcels 1 acre or less and 20% of landscaped areas on parcels greater than 1 acre. • Irrigation controllers will have rain sensors. 	Included in Water Conservation: New Development	Gallons of water saved	Low	Low-Mid	Low-Mid	Immediate	Planning and Building
31	Recycled Water	Increase the availability and use of recycled water for use in outdoor landscaping areas.	n/a	Supporting Action – Not Quantified	Acre-feet of recycled water used	Medium-High	Minimal	Minimal	Mid-Term	Public Works
32	Greywater & Rainwater	Encourage the installation and use of greywater and rainwater harvesting systems to reduce	<ul style="list-style-type: none"> • Develop and adopt a graywater ordinance and program, including public education that showcases 	Supporting Action – Not	Number of greywater and rainwater harvesting systems	Minimal	Low	Low-Mid	Ongoing	Planning and Building

#	Policy Topic	Reduction Measure	Actions	2020 GHG Reductions (MTCO2e/yr)	2020 Progress Indicators	County Costs	Community Costs	Community Savings	Implementation Time Frame	Responsible Agencies
		outdoor potable water use.	successful local examples of graywater systems that facilitate the reuse of domestic wastewater for on-site irrigation and other water conservation measures, as appropriate.	Quantified	installed					
Goal: Reduce emissions in agricultural practices through water conservation, upgrade of equipment technology, and use of best management practices.										
33	Agriculture Resource Conservation	Encourage voluntary energy conservation through appropriate and practicable efficient energy, water, and resource management practices.	<ul style="list-style-type: none"> Support the voluntary installation of energy-efficient irrigation systems and other energy conservation system devices. Encourage the U.C. Cooperative Extension to continue its public information and research program describing water conservation techniques that may be appropriate to agricultural practices in this county that may reduce the use of combustible fuels. Encourage landowners to participate in voluntary energy conservation programs through the provision of incentives. Evaluate potential efficiency improvements in agriculture-related groundwater delivery. Encourage the State to enact legislation that promotes environmentally sustainable farming practices. Encourage participation in self-assessments and certification programs. 	Supporting Action – Not Quantified	Participation in conservation programs sponsored by UCCE, RCD, and NGOs.	Low	Low	Low-Mid	Near-Term	0
34	Soil & Crop Management	The County will collaborate with Cal Poly, agriculturalists, the University of California Cooperative Extension (UCCE), and the County's resource conservation districts (RCDs) to develop and disseminate appropriate voluntary management practices for the application of pesticides and fertilizers, tillage practices, cover crops, and other techniques to reduce nitrous oxide emissions, maximize carbon sequestration, and reduce fuel use.	<ul style="list-style-type: none"> Explore conservation and stewardship programs and specialty crop research initiatives to fund GHG reduction programs. 	Supporting Action – Not Quantified	Crop fertilization rates per acre	Minimal	Low	Low	Mid-Term	Planning and Building
35	Livestock Management	Implement a voluntary fermentation and manure management program.	<ul style="list-style-type: none"> Support research and pilot programs to implement best practices. 	Supporting Action – Not Quantified	none	Minimal	Low	Low	Mid-Term	Agricultural Commissioner
36	Off-Road Equipment	Reduce fuel use and GHG emissions from off-road agricultural equipment.	<ul style="list-style-type: none"> Support the SLO County Air Pollution Control District (APCD) programs to fund equipment upgrades, retrofits, and replacement through the Carl Moyer heavy-duty vehicle and equipment program or other funding mechanisms. Work with the APCD and agriculturalists to identify practical and feasible options for fuel-efficient agricultural equipment. 	-2,810	5% of all tractors will be zero-emissions vehicles	Medium	Medium-High	Medium	Long-Term	Planning and Building
37	Local Foods	Reduce emissions from transport of agriculture-related products within the county through the encouragement of	<ul style="list-style-type: none"> Support food systems/food shed program and develop implementation policies. Support the development of community garden programs in unincorporated communities. 	Supporting Action – Not Quantified	Number of community gardens Number of farmers markets	Low	Low	Low	Mid-Term	Planning and Building

#	Policy Topic	Reduction Measure	Actions	2020 GHG Reductions (MTCO2e/yr)	2020 Progress Indicators	County Costs	Community Costs	Community Savings	Implementation Time Frame	Responsible Agencies
		local food programs.	<ul style="list-style-type: none"> • Continue support of local initiatives to increase local sales of produce grown in SLO County and other agricultural products, including but not limited to the "SLO Grown" campaign and the permitting of local farmers markets. • Encourage procurement of locally grown and/or produced food for all county events. • Encourage County vendors and concessionaires to procure and provide locally grown and/or produced food. • Support and promote the USDA "Farm to School Initiative" and "Know Your Farmer, Know Your Food" programs. • Create a local foods program to support food security, local economic development, health, and other benefits. 							
38	Agricultural Employee Transportation	Reduce VMT associated with commuting by agricultural workers.	<ul style="list-style-type: none"> • Support rideshare programs for agricultural worker transit, shuttles, and ride matching. • Publicize the availability of this program to the agricultural community. 	Supporting Measure – Included in Commute Trip Reduction Programs	Participation in SLO Regional Rideshare programs	Minimal	Low	Low-Mid	Ongoing	SLOCOG
39	Sequestration	Identify opportunities for terrestrial and aquatic sequestration in the county, including but not limited to County lands, reclaimed mining lands, agricultural lands, and other areas as appropriate.	<ul style="list-style-type: none"> • Support preparation of a countywide sequestration assessment of agricultural and open space lands, forests, and aquatic resources. • Support research and implementation through the development of a working group to convene agriculturalists, researchers, and other experts to explore local opportunities and best practices to capture and store carbon. • Explore opportunities for carbon sequestration to be integrated with existing open space acquisition for conservation programs. • Explore opportunities for carbon sequestration to be integrated with natural resource or conservation-based mitigation banking and offset programs. 	Supporting Measure – Not Quantified	Acres of land used to sequester carbon	Medium	Low-Mid	Low-Mid	Long-Term	Planning and Building
All Local Reduction Measures				-134,620						

Table 8-3. County Operations Implementation Program

Measure	Action Items	2020 GHG Reductions (MTCO2e/yr)	2020 Progress Indicators	County Costs	County Savings	Timeframe	Responsible Department	
Goal: Reduce energy use in existing County facilities 20 percent by 2020.								
E 1	Continue to retrofit existing County facilities and implement energy conservation measures and efficiency programs.	<ul style="list-style-type: none"> • Implement HVAC and lighting retrofits as identified in energy audits. • Complete weatherization measures and HVAC adjustments to improve occupant thermal comfort and reduce the use of personal heating and cooling devices. • Identify and implement energy-saving measures when leasing or purchasing additional facilities for County use. • Incorporate demonstration and educational energy conservation measures improvements into County facilities. • Continue to pursue funding sources to implement additional energy efficiency measures at existing County facilities, including grants, low-interest loans, and reinvestment of energy cost savings from retrofits already completed. 	-370	Number of facilities retrofitted Energy savings at County facilities	Medium	Medium	Mid-Term	General Services Agency
E 2	Promote energy conservation through educational and competition-based programs.	<ul style="list-style-type: none"> • Enroll and participate in the Energy Star Challenge. • Develop a competition among County departments to conserve energy. 	-90	Participation in energy conservation programs Energy savings at County facilities	Low	Low-Mid	Mid-Term	County Green Team
E 3	Reduce computer energy use through software, hardware, and network upgrades.	<ul style="list-style-type: none"> • Upgrade remote access capabilities to allow employees to access the network remotely rather than through County desktop computers. • Require all new computers, monitors, and office equipment to be Energy Star certified. 	-10	Number of EnergyStar certified computers, monitors, and pieces of office equipment	Low	Low	Mid-Term	General Services Agency
E 4	Develop green building operation and maintenance guidelines to be followed by County employees and contractors.		Supporting Measure – Not Quantified	None	Low	Low	Near-Term	General Services Agency
E 5	Continue to plant trees for building shading and carbon sequestration purposes.	<ul style="list-style-type: none"> • Plant additional deciduous trees along south-, east-, or west-facing walls to reduce building heat gain where the trees will not interfere with sewer laterals and/or photovoltaic installations. • Continue to replace damaged or diseased trees and plant additional trees at County parks and golf courses. • Continue to plant trees in County parks through the Parks Foundation Plant-a-Tree donation program. • Encourage tree mitigation projects on County parks and lands. 	-70	Number of trees planted	Low-Mid	Low	Mid-Term	General Services Agency
E 6	Replace lighting and traffic signal fixtures with more efficient light-emitting diode (LED) lighting.	<ul style="list-style-type: none"> • Retrofit streetlights with LED lighting technology. • Retrofit traffic signals with LED light fixtures. 	-20	Number of streetlights and traffic signals retrofitted	Low	Low-Mid	Near-Term	Public Works
E 7	Require new or renovated County facilities to meet or exceed CALGreen’s Tier 1 or the intent of LEED Silver requirements.	<ul style="list-style-type: none"> • Continue to require Utility Coordinator review of new facilities for opportunities to meet or exceed energy efficiency requirements. • Orient and design new facilities to maximize natural lighting and climate regulation. • “Right-size” new facilities to meet anticipated uses. • Pre-wire new facilities to accommodate solar PV and/or electric car charging stations. 	-260	Number of facilities achieving Tier 1 or LEED Silver requirements	Low-Mid	Medium	Ongoing	General Services Agency

IMPLEMENTATION

CHAPTER 8

Measure	Action Items	2020 GHG Reductions (MTCO2e/yr)	2020 Progress Indicators	County Costs	County Savings	Timeframe	Responsible Department	
Goal: Increase the use of renewable energy sources in County facilities to account for 10% of total energy used.								
RE 1	Explore opportunities to install alternative energy and co-generation facilities.	<ul style="list-style-type: none"> • Install solar PV on facilities with adequate space and orientation. • Consider use of solar equipment to support lighting facilities at County parks, parking lots, restrooms, and for irrigation pumping. • Install co-generation equipment at County facilities. • Install renewable energy systems like co-generation or solar thermal hot water equipment at County pool facilities. • Seek funding or financing opportunities for renewable energy installations on County facilities. 	-700	Megawatts of renewable energy installed	High	High	Mid-Term	General Services Agency
Goal: Reduce the amount of waste generated at County facilities and increase the County's waste diversion rate to 80% by 2020.								
W 1	Work with the Integrated Waste Management Authority (IWMA) to develop and implement a recycling program at the County's parks and golf courses.		-30	Percentage of parks and golf courses with recycling facilities	Medium	Low	Mid-Term	General Services Agency
W 2	Continue to implement paperless records management and reduce the amount of paper purchased.	Continue to post public documents, agendas and staff reports online, and consider charging a fee for printed materials.	-10	Annual print counts	Low-Mid	Medium	Ongoing	General Services Agency
W 3	Develop and implement an environmentally preferable purchasing (EPP) policy to purchase recycled content and toxic-free products for County supplies, equipment, and services and to promote recycling markets.		Supporting Action – Not Quantified	none	Low-Mid	Low	Near-Term	General Services Agency
W 4	Explore opportunities to compost food and yard waste at County facilities.	• Identify the potential facilities where effective composting can be accomplished in addition to green waste.	-80	Amount of food waste and green waste diverted at County facilities	Medium	Low-Mid	Mid-Term	General Services Agency
W 5	Require a minimum of 75% of County non-hazardous construction and demolition waste to be salvaged or recycled.	• County departments will continue to offer materials and equipment to other county facilities prior to disposal.	-20	Percentage of construction and demolition waste diverted from County projects	Low	Low	Ongoing	Public Works, General Services Agency
W 6	Continue to auction off retired vehicles and equipment.		Supporting Measure – Not Quantified	County fleet size Number of vehicles auctioned	Low	Medium	Ongoing	General Services Agency
Goal: Reduce emissions from the County's vehicle fleet by using alternative fuels and decreasing vehicle miles traveled.								
VF 1	Substantially increase the number and proportion of alternative fuel, high fuel economy, electric, and hybrid vehicles and use of these vehicles within the County's fleet.	<ul style="list-style-type: none"> • Promote employee use of hybrid vehicles when available over less fuel-efficient vehicles. • Review ongoing vehicle replacement acquisitions within the County fleet for opportunities to substitute alternative fuel vehicles, hybrid vehicles and all electric vehicles for conventional gasoline powered vehicles. 	-60	Number of hybrid vehicles Reduction in fuel use	Low-Mid	Low-Mid	Ongoing	General Services Agency
VF 2	Increase participation in the County's car-sharing membership.	<ul style="list-style-type: none"> • Provide incentives and management support to facilitate use of carsharing by all departments as an option to reduce the size of the County-owned vehicle fleet.. • Work with car-sharing companies to expand the availability of car sharing vehicles throughout the county. 	-60	Number of participants in car-share membership Annual VMT in car-share vehicles VMT/fleet size of County vehicles	Medium	Low	Ongoing	All Departments

Measure		Action Items	2020 GHG Reductions (MTCO2e/yr)	2020 Progress Indicators	County Costs	County Savings	Timeframe	Responsible Department
VF 3	Explore the use of alternative fuels in County vehicles and support the development of alternative fueling stations within the County through participation in the Central Coast Clean Cities Coalition (C5).	<ul style="list-style-type: none"> Develop additional fueling and storage facilities for the County's vehicle fleet. 	-3	Number of alternative-fuel vehicles	Low-Mid	Low	Long-Term	General Services Agency
Goal: Provide additional opportunities for employees to utilize alternative transportation options and reduce commute lengths.								
EC 1	Take into consideration facility location, proximity to other facilities, access to transit, and ability to provide bike storage facilities when constructing or leasing new facilities.	<ul style="list-style-type: none"> Locate facilities within a ½ mile of transit stops or centers. Include bicycle commuter facilities, including bike storage, lockers, and showers, at all new and remodeled facilities. 	-290	Number of new facilities within a 1/2 mile of transit Employee commute mode share	Low	n/a	Long-Term	General Services Agency
EC 2	Increase participation in Rideshare commuter programs.	<ul style="list-style-type: none"> Provide targeted outreach to departments with less than 25% participation in Rideshare programs. Encourage additional participation in Rideshare's Bike Month and Commute for Cash Challenges. 	-80	Participation in SLO Regional Rideshare programs	Low	n/a	Ongoing	All Departments
EC 3	Standardize County telecommuting and alternative work schedule policies among departments to facilitate participation as appropriate to job classifications.		-240	Number of employees telecommuting Number of employees utilizing alternative work schedules	Low	n/a	Near-Term	All Departments
EC 4	Implement workplace parking pricing at County employment centers in Downtown San Luis Obispo. Charge employees wishing to utilize a parking space provided by the County a daily or monthly fee.	<ul style="list-style-type: none"> Utilize the funds collected from employee parking charges to fund alternative commute programs. 	-40	Employee commute mode share	Generates revenues	n/a	Mid-Term	General Services Agency
Goal: Reduce water use in County facilities 20% by 2020.								
WC 1	Retrofit facilities with water-efficient fixtures.	<ul style="list-style-type: none"> Install timers and sensors on toilet and sink fixtures in all facilities. Replace inefficient water fixtures with efficient models that do not exceed 1.6 gallons per flush for toilets and 2.0 gallons per minute for showers. 	Supporting Measure – Not Quantified	Number of fixtures replaced	Low-Mid	Low-Mid	Mid-Term	General Services Agency
WC 2	Replace County-maintained turf landscapes (not including park recreational fields or areas) with water-efficient landscapes and demonstration gardens.	<ul style="list-style-type: none"> Evaluate existing irrigation systems to identify leaks and replace irrigation heads with more efficient fixtures. Replace turf areas that are not used for recreation purposes with native species and drip irrigation systems. 	Supporting Measure – Not Quantified	Acres of turf replaced with native landscape	Low-Mid	Low-Mid	Mid-Term	General Services Agency
WC 3	Continue to reduce water use on County golf courses through participation in the Audubon International Cooperative Sanctuary Program.		Supporting Measure – Not Quantified	Reduction in water use at County golf courses	Low-Mid	Medium	Ongoing	General Services Agency