7 Carbon Sequestration

Measure CS-1 Increase Carbon Sequestration by Maintaining Existing Trees and Natural Lands and by Planting 4,500 New Trees throughout the Community by 2030

Action Number	Strategic Theme	Action	Anticipated Reduction (MT CO_2e)
CS-1.1	Education, Structural Change, Partnerships	Continue to implement and expand the City's Urban Forest Management Plan to include goals for promoting street tree health, enhancing resiliency, increasing the environmental benefits and co-benefits resulting from street trees and shading, community engagement around the urban forest. Include activity to promote street tree health and maintaining existing trees through partnerships with the community and local non-profits.	2030: 159 2035: 159
CS-1.2	Structural Change, Feasibility Studies	Continue to look for opportunities to increase carbon sequestration via land acquisitions and tree protections in alignment with the City's Open Space, Parks and Recreation Element.	Supportive
CS-1.3	Structural Change, Foundational	Implement the City's Community Wildfire Protection Plan to reduce fire risk and carbon loss due to wildfires by conducting vegetation management throughout the City. Ensure that vegetation management projects minimize full removal of vegetation or conversion of land cover type from a higher carbon sequestration land cover (shrubs and trees) to a lower carbon sequestration land cover type (annual grasses).	Supportive
CS-1.4	Feasibility Study	Develop a Citywide, or participate in a regional, carbon sequestration analysis and plan to explore opportunities to increase sequestration in the City.	Supportive
CS-1.5	Structural Change, Equity, Education	Implement the City of Santa Barbara's Creek Tree Program to assist private creekside landowners with improving wildlife habitat along creeks in Santa Barbara through the protection and planting of native trees. Develop a wildlife habitat install program where the City provides carbon sequestering plants and creek trees and removes non-natives as feasible for appropriate creekside properties. Prioritize low-income areas for implementation of the Creek Tree Program and keep an updated publicly accessible page on the City website with important information about the program.	Supportive
CS-1.6	Feasibility Studies	Update tree canopy coverage data within the City to measure the change in coverage over time as it relates to sequestration as part of the next Urban Forest Management Plan update.	Supportive
CS-1.7	Partnerships	Invest and participate in regional development of local carbon off-set program in partnership with the County and/or Central Coast Regional Collaborative.	Supportive
CS-1.8	Equity	Prioritize low-income areas of the City with less existing tree canopy for tree plantings and increase shading in gathering spaces.	Supportive

Measure CS-2 Explore New Carbon Sequestration and Carbon Capture Opportunities

Action Number	Strategic Theme	Action	Anticipated Reduction (MT CO_2e)
CS-2.1	Partnerships, Feasibility Studies	Create an organizational body (internally within the City or through a partnership like with UCSB or the Santa Barbara Botanical Garden) to lead program development and research for facilitating emergent carbon sequestration and carbon capture plans relevant to the City.	Supportive
CS-2.2	Education	Pilot and promote carbon sequestering construction materials like low-carbon	Supportive

		concrete and mass timber.	
CS-2.3	Education, Partnerships	Work with local architects, construction trades, and workforce development organizations to expand industry knowledge and adoption of carbon sequestering building materials and techniques.	Supportive
CS-2.4	Feasibility Studies	Conduct a feasibility study to explore carbon capture and storage opportunities for the community.	Supportive
CS-2.5	Feasibility Studies, Partnerships	Initiate a study partnering with local academic institutions and the ReSource Center to identify and research ways to create a circular economy around organic waste and increasing edible food rescue.	Supportive
CS-2.6	Feasibility Studies	Conduct a feasibility study to explore repurposing biosolids into biochar locally and replacing conventional fertilizer through Public Works.	Supportive
CS-2.7	Partnerships, Feasibility Studies	Invest in the existing kelp farming efforts by studying regional environmental impacts and sequestration potential through a partnership with UCSB.	Supportive
CS-2.8	Partnerships	Partner with furniture, home renovation, and construction companies to promote sustainable and locally harvested timber to reduce embodied carbon from transit of construction materials and reduce the price premium of emerging timber uses.	Supportive
CS-2.9	Funding	Leverage the grant writer position(s) in strategy A-2.2 to expand funding for the carbon sequestration program.	Supportive
CS-2.10	Equity	If there are localized co-benefits to any sequestration projects focus development, when possible, to benefit historically adversely impacted under-resourced communities.	Supportive

Measure CS-3 Maintain and Expand Existing Restoration Projects to Sequester Carbon through a 25-acre Net Increase in Restored Land Areas by 2030

Action Number	Strategic Theme	Action	Anticipated Reduction (MT CO_2e)
CS-3.1	Structural Change, Partnerships, Equity, Education	Develop a Citywide restoration plan in partnership with the Creeks Division, Parks and Recreation, and Public Works to achieve target net increases in restored land area and waterways. Prioritize implementation of restoration projects in disadvantaged communities. Facilitate community outreach through surveys and public meetings on ways to best restore lands and waterways within the City as well as identify additional priority areas.	Supportive
CS-3.2	Structural Change, Equity	Should parcels be identified for potential rezoning from their existing state to a park or open space, consider the following: 1) Provide flexible solutions for developing urban parks in infill areas where traditional neighborhood and community parks are not feasible; 2) Aim to achieve the greatest carbon sequestration possible, given constraints around use and amenities to be included. Use and amenities are determined by Parks and Recreation staff through a community process; and 3) Selection of parcels be made with an aim to serve underserved communities.	Supportive
CS-3.3	Partnerships	Expand Creeks Division volunteering programs to help maintain creek restoration projects. Coordinate projects with Parks and Recreation and Sustainability and Resilience Departments.	Supportive
CS-3.4	Structural Change, Feasibility Studies, Education	Facilitate annual reporting as part of the urban forestry, wildfire prevention, and Citywide restoration efforts by developing and maintaining existing projects to gauge progress over time and identify any gaps related to ongoing projects. Incorporate GHG reduction calculations into this monitoring plan.	Supportive

Action Number	Strategic Theme	Action	Anticipated Reduction (MT CO_2e)
CS-3.5	Funding, Foundational	Leverage the grant writer position(s) in strategy A-2.2 to pursue funding for restoration activities with a focus on projects that have not reached completion due to funding constraints.	Supportive
CS-3.6	Structural Change, Foundational	Include long term maintenance in restoration planning and implementation by partnering with the community and local organizations to assist in maintenance activities. Include continued maintenance and expansion of Creeks Division projects of the Upper Las Positas Creek, Mission Creek, Palermo Open Space, Arroyo Burro, and the Andree Clark Bird Refuge.	Supportive

Measure CS-4 Increase Carbon Sequestration by Applying 0.08 tons of Compost per Capita Annually in the Community through 2030 and 2035

Action Number	Strategic Theme	Action	Anticipated Reduction (MT CO_2e)
CS-4.1	Structural Change	Enforce compliance with SB 1383 and aim to exceed the baseline requirement by establishing a minimum level of compost application per year on applicable/appropriate land throughout the City including City-owned land twice that of SB 1383 requirements.	2030: 1,778 2035: 1,853
CS-4.2	Feasibility Studies	Identify additional locations within the City to apply compost and provide household incentives for small-scale implementation.	Supportive
CS-4.3	Structural Change	Maintain procurement policies to comply with SB 1383 requirements for jurisdictions to purchase recovered organic waste products.	Supportive
CS-4.4	Partnerships, Education	Work with the ReSource Center to provide residents, businesses, and developers with educational material on where compost can be acquired and how it can be used (i.e., landscaping).	Supportive
CS-4.5	Partnerships	Collaborate with Santa Barbara Community College, UC Santa Barbara, local schools, and Public Works to identify opportunities to apply compost to landscaping.	Supportive

Measure CS-5 Reduce GHG Emissions of Residential and Commercial Building Materials 20% by 2030 and 40% by 2035 in Line with AB 2446

Action Number	Strategic Theme	Action	Anticipated Reduction (MT CO_2e)
CS-5.1	Feasibility Studies	Conduct a feasibility study on carbon capture technologies to locally produce calcium carbonate (low carbon concrete) creating sequestration via construction materials. Determine viability within the City and project demand.	Supportive
CS-5.2	Partnerships, Feasibility Studies	Partner with UCSB to pilot a building specific embodied carbon reduction project for planned construction.	Supportive
CS-5.3	Moonshot	Develop a strategic construction and procurement plan to promote construction projects that use alternative materials to reduce embodied carbon. Include scoring criteria in City request for proposals for construction projects that identify resilience features such as water and energy efficiency, reduced urban heat, and decrease the embodied carbon in line with AB 2446.	Supportive

8 Community Climate Potential

Measure CP-1 Encourage Community Innovation and Empower the Local Green Economy through Investment in a Green Technology Workforce

Action Number	Strategic Theme	Action	Anticipated Reduction (MT CO_2e)
CP-1.1	Structural Change	Create a Green Technology incubator in partnership with UCSB to determine technological advancement research into clean power, built environment advancement, and carbon sequestration.	Supportive
CP-1.2	Funding	Leverage the grant writer position(s) in strategy A-2.2 to source funding for the Green Technology incubator through involvement of venture capitalist and private equity firms.	Supportive
CP-1.3	Education	Facilitate workforce training by partnering with local academic institutions to offer scholarships for students pursuing climate trades.	Supportive
CP-1.4	Education	Partner with Santa Barbara Community College and/or UCSB to develop a clean energy technology certificate program.	Supportive
CP-1.5	Moonshot	Leverage the grant writer position(s) in strategy A-2.2 to establish an Innovation Bootcamp with funding from SBCE to encourage forward thinking sustainability and resilience ideas and pilots. The Innovation Bootcamp will be tiered based on stages.	Supportive
CP-1.6	Moonshot	Create a climate innovation competition for local area students where the prize is a scholarship or grant.	Supportive