10. APPENDIX E: 2022 CLIMATE ACTION PLAN ANNUAL MONITORING REPORT

The Escondido City Council received the 2022 Climate Action Plan Annual Monitoring Report on March 22, 2023, as part of the overall General Plan Annual Progress Report. The Climate Action Plan Annual Monitoring Report is a detailed matrix of all CAP reduction strategies, measures, performance metrics/adaptation actions, and notes where they are in process by the responsible department/agency. The CAP Annual Monitoring Plan is formatted similarly to Table 4-3 of the CAP.

At the top of the matrix is a blue header bar, with the following columns:

- **Status**: implementation status of each measure and performance metric as of December 2022
 - o Not yet implemented: the action is yet to begin
 - o Ongoing: the action is underway, but not yet complete
 - o Completed: the action is complete
- Measure: the measure's identifying number
- **Title**: measure's title/name
- GHG Reduction Potential (MTCO₂e): the total anticipated greenhouse gas emissions reduced achieved through full implementation of the item (expressed in metric tons of carbon dioxide equivalent)
- **Responsible Agency/Department**: responsible entity for implementation
- Implementation Timeframe: the timeframe over which strategies are implemented

- o Mid-term: 4-10 years
- Long-term: 10+ years
- Ongoing: already occurring
- CAP Implementation Date: the specific date identified within the CAP for implementation
- Staff Implementation Cost: level of cost to implement
 - Low: requires limited resources of current staff and can be implemented with reprioritization of current staff's workload
 - Medium: requires staff resources beyond current capacity and requires new part-time staff and/or contracts
 - High: requires extensive staff resources, including a significant number of new staff and/or contracts
- Ease of Implementation: level of effort required to implement
 - Low: existing programs in place to support implementation and limited resources needed for implementation
 - Medium: requires internal and external coordination and policy and code revisions; funding sources are accessible
 - High: requires a general plan amendment or new policy/ordinances, robust outreach, regional cooperation, and securing long-term funding

Rows are highlighted to reflect implementation dates and their corresponding status, as described below:

- <u>Red</u> -- 2022 or earlier CAP Implementation Date and are not yet implemented
- Yellow -- 2023 CAP Implementation Date and are not yet implemented

Short-term: 0-3 years

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- Green -- completed CAP items, regardless of the implementation date
- No Highlight the measure is not nearing implementation and is not yet implemented
- No data -- represented by a double dash (--)

CAP Summary

CAP Reduction Strategies

The CAP identifies 11 total strategies, with nine involving measures for reducing citywide GHG emissions to target levels, and two involving adaptation strategies for climate resiliency. Each strategy consisting of numbered implementation measures (i.e., T-1.1, etc.) with detailed performance metrics/adaptation actions. As of March 2023, the City has implemented measures in the following reduction strategy categories, as shown in bold below. In other words, the City is in process on at least one of the implementing measures related to the reduction strategies bolded below.

- 1. Increase Use of Zero-Emission or Alternative Fuel Vehicles
- 2. Reduce Fossil Fuel Use
- 3. Reduce Vehicle Miles Traveled (VMT)
- 4. Increase Building Energy Efficiency
- 5. Increase Renewable and Zero Carbon Energy
- 6. Increase Water Efficiency
- 7. Diversify Local Water Supply
- 8. Reduce and Recycle Solid Waste
- 9. Carbon Sequestration
- 10. Become A "Climate Smart" Leader
- 11. Build Thriving and Resilient Neighborhoods

In addition to the 11 reduction strategies identified within the CAP, there are an additional four overarching implementation measures:

- a. Establish a Climate Commission
- b. Hire a full-time sustainability or climate coordinator
- c. Receive updated GHG inventory from SANDAG every two years (if no inventory is available, then the City is to develop an updated emissions inventory)
- d. Evaluate the effectiveness of the CAP measures through the 2021-2025 annual monitoring reports and identify new technologies and methodologies that did not exist at the time of the CAP adoption

Within each implementation measure are numerous performance metrics and/or adaptation actions. These performance metrics and adaptation actions predominantly consist of items not yet implemented, as their timeframes are several years out. However, of the items anticipated for action in 2020-2022 (i.e., those actions scheduled to have begun or be completed by this date), 9 out of 25 are underway or complete, with 16 not yet implemented, compared to 7 out of 17 underway or complete, with 10 not yet implemented in 2021. No new actions were completed in 2022—all items shown in green were completed in the 2020 and 2021 calendar years.

Based on the 2022 annual report of the City's CAP, capacity and funding issues continue to cause implementation challenges. One of the largest hurdles in implementation is the updates and creation of new zoning ordinances, which are time intensive. Lack of funding for implementation continues to put the City further behind in effective implementation. For example, the loss of the CalFire Urban Forestry funding source impeded the City's ability to move forward with measure C-9.2. While other one-time funding sources exist for such actions, staff will need to continue to research such mechanisms, whereas the CalFire grant opportunity is a well-known funding source for such actions.

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Status	Measure	Title	GHG Reduction Potential (MTCO ₂ e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation	
Ongoing									
Completed for CY 2022.		Annual monitoring report to Planning Commission and City Council, identifying CAP implementation efforts to date, CAP's performance in achieving targets, and		CD		March 2022			
The first annual monitoring report for the updated CAP can be found here: <u>2021 CAP Annual Monitoring Report</u>		set implementation milestones for the following year.							
Not yet implemented		Establish Climate Commission: formal advisory group to help provide ongoing program support and guidance.	ish Climate Commission: formal advisory group to help provide ongoing Short-Term 2021 am support and guidance.						
Not yet received		Receive updated GHG inventory from SANDAG; if no data is received then the City will need to develop an updated emissions inventory by 2022		CD	Short-Term	2021			
SANDAG is currently working to create 2022 data for release sometime in 2023.									
The City hired a long-range planner to work on implementing the CAP. However, the position works on all long-range planning projects, not just the CAP.		a full-time sustainability or climate coordinator							
Not yet implemented		Based on findings from the monitoring report and inventory updates, City staff will review the performance of each individual measure, evaluate the effectiveness of maintaining existing measures into the future, and identify new technologies and methodologies that did not exist at the time of CAP adoption.		CD	Mid-Term	End of 2025			
		Strategy 1: Increase Use of Zero-Emission or Alternative Fu	el Vehicles						
	T-1.1	Transition to a Clean and More Fuel-Efficient Municipal Vehicle Fleet.		PW	Mid-Term		Low	Low	
Not yet implemented		Adopt a procurement policy for converting all municipal vehicle fleet to EVs and PHEVs.			Short-Term	2021			
		Add 11 new EVs and PHEVs to the City fleet by 2030.							
Ongoing					Mid-Term	2030			
No zero-emissions vehicles were added to the City's fleet in 2022.	Performance Metrics		33						
Not yet implemented		Install 30 EV Charging stations at the Police and Fire Headquarters by 2030.			Mid-Term	2030			
Not yet implemented		Maintain 30 EV charging stations and 11 EVs and PHEVs in the municipal fleet in 2035.	33		Long-Term	2035			
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Status	Measure	Title	GHG Reduction Potential (MTCO2e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation			
	T-1.2	Install EV Charging Stations at Park and Ride Lots.		CD; PW	Short-Term		Medium	Medium			
Not yet implemented	Performance	Install 181 EV charging stations in Park and Ride lots by 2030.	463		Mid-Term	2030					
Not yet implemented	Metrics	Install 281 EV charging stations in Park and Ride lots by 2035.	737		Long-Term	2035					
	T-1.3	Adopt an Ordinance to Require EV Charging Stations at New Developments.		CD; PW	Short-Term		Low	Medium			
Not yet implemented		Adopt an ordinance requiring EV charging station installation in new multi-family and new commercial developments.			Short-Term	2022					
Not yet implemented		Adopt an ordinance that requires the installation of EV charging stations in existing, larger commercial developments (consisting of 100 spaces or more).			Short-Term	2023					
Not yet implemented	Performance Metrics	Establish a "Clean Energy Equity Plan" to improve equitable access to clean and sustainable energy in priority investment neighborhoods ("PINs") to increase EV ownership, EV car-sharing, installation of EV chargers in existing multi-family projects, etc.			Mid-Term	2025					
Ongoing		Install 531 EV charging stations in multi-family and commercial developments by 2030.	3,513		Mid-Term	2030					
however, none were for multifamily residential. Single family residential accounted for 48 permits and nonresidential 5 permits.		Install 802 EV charging stations in multi-family and commercial developments by 2035.	5,732		Long-Term	2035					
	T-1.4	Require EV Charging Stations at New Model Home Developments.		CD	Mid-Term		Low	Medium			
Not yet implemented		Adopt an ordinance requiring EV charging station installation in new single-family homes and townhouses.			Short-Term	2021					
Not yet implemented	Performance Metrics	Install 200 EV charging stations in new single-family homes and townhouses by 2030.	339		Mid-Term	2030					
Not yet implemented		Install 300 EV charging stations in new single-family homes and townhouses by 2035.	520		Long-Term	2035					

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Status	Measure	Title	GHG Reduction Potential (MTCO2e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
		Strategy 2: Reduce Fossil Fuel Use						
	T-2.1	Synchronize Traffic Signals.		ES	Ongoing		Low	Medium
Ongoing		Synchronize traffic signals at 23 City-maintained intersections by 2030.	289		Mid-Term	2030		
A request for proposal for a traffic signal master plan to upgrade signal controllers and communication citywide was released in 2022. The Development Services Department's Engineering Division began development of the traffic signal master plan that will serve as the basis for updating signal hardware to improve responsiveness.	Performance Metrics	Synchronize traffic signals at 35 City-maintained intersections by 2035.	408		Long-Term	2035		
	T-2.2	Install Roundabouts.		CD; ES	Ongoing		Medium	Medium
Not yet implemented		Establish a policy that requires the study of roundabouts at intersections with lower average daily trips, whereby the feasibility of roundabouts is evaluated for all new intersections and for existing intersections where capacity or safety problems have been identified.			Mid-Term	2025		
Ongoing	Performance Metrics	Install roundabouts at eight City-maintained intersections by 2030.	811		Mid-Term	2030		
One roundabout was installed in 2022 at Country Club Lane and Golden Circle Drive, resulting in two roundabouts installed since 2021.		Install roundabouts at 12 City-maintained intersections by 2035.	1,145		Long-Term	2035		
	T-2.3	Increase Renewable of Alternative Fuel Construction Equipment.		CD				
Not yet implemented		Adopt an ordinance requiring electric-powered or alternatively-fueled construction equipment in new developments and land-moving projects, to the extent such equipment is available. Exempt small residential and non-residential projects from this requirement.			Mid-Term	2027		
Not yet implemented	Deufeurueuee	Reduce fuel consumed by construction equipment and construction fleets by 25% by 2035. It is assumed that 50% of new development projects would be exempt from this requirement.	2,508		Long-Term	2035		
Not yet implemented	Metrics	Conduct educational campaigns to promote fuel-efficient driving ("eco-driving") practices, such as reduced idling, slower driving speeds, gentle acceleration, and proper tire inflation.						
Ongoing		Update the City's General Plan Mobility and Infrastructure Element to support network build-out and improved traffic flow.						
The City is currently in the early stages of updating the Mobility and Infrastructure Element.								

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Status	Measure	Title	GHG Reduction Potential (MTCO₂e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
Not yet implemented		Medium- and heavy-duty electronic truck sales and usage is expected to increase starting in 2024, consistent with the 2020 Advanced Clean Truck Rule mandated by the California Air Resource Board ("CARB"). To support this rule, the City should adopt an ordinance to establish requirements for large truck EV charging stations and work with businesses to increase station access to support the mandate.						
	T-3.1	Participate in the SANDAG iCommute Vanpool Program.		CM; CD	Ongoing		Low	Low
Not yet implemented	Performance	Maintain a minimum of 36 SANDAG vanpools annually that start or end in the City in 2030.	837		Mid-Term	2030		
Not yet implemented	Metrics	Maintain a minimum of 36 SANDAG vanpools annually that start or end in the City in 2035.	787		Long-Term	2035		
	T-3.2	Improve Pedestrian Infrastructure in Priority Areas.		CD	Ongoing		Low	Low
Ongoing Engineering Services (ES) is reviewing responses to the City's RFP for developing an active transportation plan.	Performance	Develop and adopt an Active Transportation Plan that includes a Pedestrian Master Plan, Trails Master Plan, Safe Routes to School Plan, and Safe Routes to Transit Plan.			Short-Term	2023		
Ongoing	Metrics	Install or improve at least 5.8 miles of sidewalk in priority areas.	44		Mid-Term	2030		
Ongoing	-	Install or improve at least 8.3 miles of sidewalk in priority areas.	59		Long-Term	2035		
	T-3.3	Implement the Safe Routes to School Program.		CD; EUSD; ES	Ongoing		Low	Low
Not yet implemented Engineering Services (ES) is reviewing responses to the City's RFP for developing an active transportation plan.	Performance Metrics	Develop and adopt an Active Transportation Plan that includes a Safe Routes to School Plan.			Short-Term	2023		
Not yet implemented		Increase the percent of students walking to school in the EUSD to 27 percent in 2030.	60		Mid-Term	2030		

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Status	Measure	Title	GHG Reduction Potential (MTCO ₂ e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation									
Not yet implemented		Increase the percent of students bicycling to school in the EUSD to 2.3 percent in 2030.			Mid-Term	2030											
Not yet implemented		Increase the percent of students walking to school in the EUSD to 30 percent in 2035.	02		Long-Term	2035											
Not yet implemented		Increase the percent of students bicycling to school in the EUSD to 2.5 percent in 2035.	82		Long-Term	2035											
	T-3.4	Develop a Citywide TDM Plan.		CD	Short-Term		Medium	Medium									
Not yet implemented		 Adopt a TDM ordinance, effective in 2022. Provide "end-of-trip" facilities for bicycle commuters (i.e. bicycle parking spaces, showers, lockers) Provide discounted monthly NCTD transit passes or transit subsidies Provide informational material to employees for carpool and vanpool ride-matching services Implement parking cash-out policies Develop alternate workplace, telecommuting, and/or alternate work schedule programs 			Short-Term	End of 2021											
Not yet implemented		Develop and implement a wayfinding program with signage and information systems to facilitate walking, biking, and efficient driving and parking			Short-Term	2023											
Not yet implemented	Performance	Increase bicycle commute mode share to 2.0 percent citywide and 3.5 percent in the downtown employment center in 2030.			Mid-Term	2030											
Not yet implemented	Metrics	Increase transit commute mode share to 4.5 percent citywide and 7.5 percent in the downtown employment center in 2030.	533		Mid-Term	2030											
Not yet implemented		Increase carpool commute mode share to 17.0 percent citywide and 15.5 percent in the downtown employment center in 2030.			Mid-Term	2030											
Not yet implemented		Increase bicycle commute mode share to 2.5 percent citywide and 4.0 percent in the downtown employment center in 2035.			Long-Term	2035											
Not yet implemented		Increase transit commute mode share to 5.0 percent citywide and 8.0 percent in the downtown employment center in 2035.	820		Long-Term	2035											
Not yet implemented		Increase carpool commute mode share to 17.0 percent citywide and 16.0 percent in the downtown employment center in 2035.			Long-Term	2035											
	T-3.5	Update Bicycle Master Plan.		CD	Ongoing		Medium	Medium									

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Status	Measure	Title	GHG Reduction Potential (MTCO₂e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
Not yet implemented		Develop and implement a citywide bike rack policy.			Short-Term	2024		
Ongoing Escondido Creek Trail Expansion and Renovation Project completed environmental review and design in 2022, with construction of the project expected to go out to bid in Summer 2023.	Performance	Complete construction of the Class I Escondido Creek Bike Path, funded through Prop 68, to facilitate a larger network of active transportation access points and opportunities.			Mid-Term	2025		
Not yet implemented	Metrics	Develop and implement a program to incentivize City employees commuting to work by bike or other modes of alternative transport as a model for other local employers.			Mid-Term	2025		
Ongoing		Install at least 19 miles of new Class II or better bicycle lanes by 2030.	231		Mid-Term	2030		
The City added 2.5 miles of new Class II or better bicycle lanes, bringing the total to 6.15 of new Class II or better bike lanes within the City (approximately 3.7 miles were added in 2021).		Install at least 30 miles of new Class II or better bicycle lanes by 2035.	335		Long-Term	2035		
	T-3.6	Increase Transit Commuters Among New Downtown Residents.		CD	Ongoing		Low	Low
Not yet implemented		Develop a downtown parking study and feasibility study to look into multi-level, public/private parking lot(s) and convert surplus city-owned lots to facilitate redevelopment.			Short-Term	2024		
Not yet implemented		Increase the proportion of commuters using transit and living in new residential developments within the Downtown Specific Plan and East Valley area from five percent to eight percent by 2030.	84		Mid-Term	2030		
Not yet implemented	Performance Metrics	Increase the proportion of commuters using transit and living in new residential developments within the Downtown Specific Plan and East Valley area to 10 percent by 2035.	177		Long-Term	2035	-	
Not yet implemented		Requiring projects to provide six-month transit passes to new residents if proposing any reduction in parking over 15 percent of required amount.				-	-	
Not yet implemented		Requiring projects to monitor transit use by new residents for the first six months of operation and present monitoring results to the City.				-	-	
	T-3.7	Develop an Intra-City Shuttle Program.		CD; PW	Mid-Term		High	Medium
Ongoing The City applied for grant funding to study flexible fleet deployment in Escondido.	Performance Metrics	Complete a feasibility study that demonstrates the intra-city shuttle system would reduce internal trips seven percent by 2030 and 10 percent by 2035.	4,463		Mid-Term	2030		

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Status	Measure	Title	GHG Reduction Potential (MTCO2e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
Not yet implemented		Operate two or more shuttle routes with 10-minute headways during commute hours in 2030.			Mid-Term	2030		
Not yet implemented		Operate two or more shuttle routes with 10-minute headways during commute hours in 2035.	6,540		Long-Term	2035		
	T-3.8	Increase Transit Ridership.		CD; SANDAG	Mid- to Long- Term		Medium	Medium
Ongoing	Performance	Increase internal-external/external-internal commute transit mode share of 4 percent by 2030.	7,829		Mid-Term	2030		
and Reliability Study, as well as planning for a new proposed rapid route in Escondido (Route 471).	Metrics	Increase internal-external/external-internal commute transit mode share of 5 percent by 2035.	17,099		Long-Term	2035		
	T-3.9	Develop and Implement a Service Population-Based VMT Threshold.		CD	Short-Term		Low	Low
Ongoing		Reduce citywide VMT to 1.8 percent below projected 2030 VMT levels in 2030.	5,829		Mid-Term	2030		
Transportation Impact Analysis Guidelines with a per capita and employee based VMT threshold adopted in April 2021; however, the City has not established a process for tracking VMT reduction.	Performance Metrics	Reduce citywide VMT to 3.5 percent below projected 2035 VMT levels in 2035.	11,075		Long-Term	2035		
Not yet implemented		Pursue State grants, such as the Affordable Housing and Sustainable Communities Grant, to support affordable housing projects near transit						
		Strategy 4: Increase Building Energy Efficiency						
	E-4.1	Require New Residential Developments to Install Alternatively-Fueled Water Heaters.		CD	Short-Term		Low	Low
Not yet implemented		Adopt an ordinance requiring the installation of alternatively-fueled water heaters effective in 2023 in new developments and significant remodels.			Short-Term	2022		
Not yet implemented	Performance Metrics	Establish incentives for landlords and homeowners to upgrade to electric heat pump water heaters.			Mid-Term	2025		
Ongoing The Building Division is implementing a permit type		Approve 995 new residential units served by electric heat pump water heaters by 2030.	629		Mid-Term	2030		

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Status	Measure	Title	GHG Reduction Potential (MTCO₂e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation				
to track electric heat pump water heaters in 2023 for this measure. No numbers are available for CY 2022 but numbers are anticipated in 2023.		Approve 1,276 new residential units served by electric heat pump water heaters by 2035.	822		Long-Term	2035						
	E-4.2	Require New Multi-Family Residential Developments to Install Electric Cooking Appliances.		CD	Short-Term		Low	Low				
Not yet implemented		Adopt an ordinance, effective in 2023, requiring the installation of electric cooking appliances.			Short-Term	2022						
Not yet implemented	Performance	Establish incentives for landlords and homeowners to upgrade to electric cooking appliances.			Mid-Term	2025						
Not yet implemented	Metrics	Install 955 new electric cooking appliances.	143		Mid-Term	2030						
Not yet implemented		Install 1,142 new electric cooking appliances.	172		Long-Term	2035						
	E-4.3	Reduce Electricity Use in Streetlights.		PW	Ongoing		Low	Medium				
Completed	Dorformanco	Retrofit 300 existing HPS streetlights with LEDs by 2030.	3		Mid-Term	2030						
As of July 2021, 1,010 street lights retrofitted. Upon the 2025 scheduled update to the CAP, this measure will be evaluated.	Metrics	Retrofit 450 existing HPS streetlights with LEDs by 2035.	3		Long-Term	2035						
	E-4.4	Require Non-Residential Alterations and Additions to Install Alternative-Fuel Water Heaters.		CD	Short-Term		Low	Low				
Not yet implemented		Require the installation of electric heat pump water heaters for a minimum alteration and addition area of 1.08 million sq. ft. of non-residential buildings by 2030.	160		Mid-Term	2030						
Not yet implemented	Performance Metrics	Require the installation of electric heat pump water heaters for a minimum alteration and addition area of 1.755 million sq. ft. of non-residential buildings by 2035.	263		Long-Term	2035						
Not yet implemented		Evaluate the feasibility of a local home retrofit program and utilize the Clean Energy Equity Plan for reinvestment in priority investment neighborhoods ("PINS"), focusing on the oldest housing stock.										

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Status	Measure	Title	GHG Reduction Potential (MTCO ₂ e)	Responsible Department/ Agency	Implement Timefrar

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Status	Measure	Title	Reduction Potential (MTCO ₂ e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
		Strategy 5: Increase Renewable and Zero Carbon En	ergy					
	E-5.1	Increase Renewable Energy Generated at Municipal Facilities		ES; PW	Ongoing		Low	Medium
Not yet implemented	Performance	Install at least 0.8 MW of PV at municipal facilities and parking lots by 2030.	292		Mid-Term	2030		
Not yet implemented	Metrics	Install at least 2.0 MW of PV at municipal facilities and parking lots by 2035.	745		Long-Term	2035		
	E-5.2	Require New Commercial Developments to Achieve ZNE.		CD	Ongoing		Medium	High
Not yet implemented		Adopt a Zero Net Energy ordinance effective in 2023.			Short-Term	2022		
Not yet implemented	Performance Metrics	Approve at least 970,200 sq. ft. of new office and retail space that achieve zero net energy by 2030.	1,618		Mid-Term	2030		
Not yet implemented		Approve at least 1,576,575 sq. ft. of new office and retail space that achieve zero net energy by 2035.	2,668		Long-Term	2035		
	E-5.3	Increase Grid-Supply Renewable and/or Zero-Carbon Electricity.		CD; CM	Ongoing		Medium	High
Completed The City Council adopted Resolution No. 2021-169 to join the <u>Clean Energy Alliance (CEA)</u> Oct. 27, 2021, after the joint feasibility study was completed in previous FY 2020-2021.		Complete a CCA/CCE feasibility study.	ł		Short-Term	2021		
Not yet implemented	Performance Metrics	Establish a "Clean Energy Equity Plan" to support low-income residents and small organizations to purchase or obtain renewable energy. Program to include specific goals for local and decentralized renewable energy, rental and homeowner programs and/or system incentives, creation of local green jobs, and local hiring requirements, etc.			Mid-Term	2025		
Not yet implemented		Complete a micro-grid feasibility study with the goal to encourage clean energy development and access in priority investment neighborhoods ("PINs").			Mid-Term	2028		
Not yet implemented		Achieve 100 percent renewable and zero-carbon electricity supply in 2030.	42,134		Mid-Term	2030		
Not yet implemented		Achieve 100 percent renewable and zero-carbon electricity supply in 2035.	29,486		Long-Term	2035		

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Status	Measure	Title	GHG Reduction Potential (MTCO2e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation			
	E-5.4	Increase Renewable Electricity Generated at School Sites.		EUSD	Ongoing		Medium	High			
Ongoing EUSD installed 2.78 MW in the 2020/2021 fiscal year (FY); and is considering an additional 1 MW of PV at		Install 2.6 MW behind-the-meter PV at school sites by 2030.	947		Mid-Term	2030					
Ongoing		Install 2.6 MW behind-the-meter PV at school sites by 2035.	965		Long-Term	2035					
Ongoing The HARRF maintains a biogas cogeneration renewable energy project that takes digester gas and produces energy. The project produces a combined 1200kW of electricity to fully power the HARRF. In addition, the heat produced by the electric generators heats the HARRF's digester water loop, which in turn heats the digester sludge to optimal temperatures.	Performance Metrics	Support the efforts at the Hale Avenue Resource Recovery Facility (HARRF) to create renewable electricity and heat for municipal operations									
		Strategy 6: Increase Water Efficiency									
	W-6.1	Reduce Municipal Landscape Water Consumption.		ES; PW	Ongoing		Low	Medium			
Ongoing City staff began the process of upgrading LMD		Reduce water use at City Parks and in the City's LMD by 84 acre-feet in 2030.	45		Mid-Term	2030					
Irrigation Controllers to the latest Central Control Software along with upgrading controller communications from outdated 2G/3G Cell Cartridge communications to Network Radio communications	Performance Metrics	Reduce water use at City Parks and in the City's LMD by 118 acre-feet in 2035.	64		Long-Term	2035					
	W-6.2	Reduce Landscape Water Consumption in Developments.		CD	Ongoing		Low	Low			
Not yet implemented	Performance	Adopt an updated landscape ordinance effective 2022.			Short-Term	2021					
Not yet implemented	Metrics	Approve the development of 130 new single-family homes or townhouses with greywater systems and rain barrels by 2030.	8		Mid-Term	2030					

	W-6.1	Reduce Municipal Landscape Water Consumption.		ES; PW	Ongoir
Ongoing City staff began the process of upgrading LMD		Reduce water use at City Parks and in the City's LMD by 84 acre-feet in 2030.	45		Mid-Te
Irrigation Controllers to the latest Central Control Software along with upgrading controller communications from outdated 2G/3G Cell Cartridge communications to Network Radio communications	Performance Metrics	Reduce water use at City Parks and in the City's LMD by 118 acre-feet in 2035.	64		Long-Te
	W-6.2	Reduce Landscape Water Consumption in Developments.		CD	Ongoir
Not yet implemented	Performance	Adopt an updated landscape ordinance effective 2022.			Short-Te
Not yet implemented	Metrics	Approve the development of 130 new single-family homes or townhouses with greywater systems and rain barrels by 2030.	8		Mid-Te

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Status	Measure	Title	GHG Reduction Potential (MTCO ₂ e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
Not yet implemented		Approve the development of 195 new single-family homes or townhouses with greywater systems and rain barrels by 2035.	12		Long-Term	2035		
		Strategy 7: Diversify Local Water Supply						
Construction of the MFRO facility is underway, with an anticipated completion date sometime in May 2023.	W-7.1	Develop a Local Water Supply for Agricultural Water Use.		CD; ES; U	Mid-Term		Medium	High
Not yet implemented	Performance	Supply 6,721 acre-feet of water to agricultural customers from the MFRO facility in 2030.	3,541		Mid-Term	2030		
Not yet implemented	Metrics	Supply 6,721 acre-feet of water to agricultural customers from the MFRO facility in 2035.	3,571		Long-Term	2035		
		Strategy 8: Reduce and Recycle Solid Waste						
	S-8.1	Increase Citywide Waste Diversion.		CD; PW; U	Mid-Term		Medium	High
Completed Organics ordinance approved in Dec. 2021 (Chapter 14: Solid Waste and Recycling updated to account for organic waste recycling).		Adopt and implement an organic waste recycling program			Short-Term	2021		
Completed Dec. 2021 update to Ch. 14 includes requirements for diversion and composting operations. Waste diversion is occurring, along with outreach/education. Two compost workshops were held in 2022 (goal of 4/year).	Performance Metrics	Adopt a composting and waste diversion ordinance			Short-Term	2023		
Ongoing MORe Plan is underway, which includes targeted outreach to commercial, multifamily, and mobile home parks to adopt organics recycling. Bilingual presentations will be conducted with information on recycling. Between Jan., 2022 and Nov., 2022, the percent of multifamily residential properties and businesses not recycling went from 55% to 36%, and 80% to 49%, respectively.		Work with the franchise waste hauler and other partners to assess the infrastructure needed to support composting and waste diversion goals. Develop a Zero Waste Plan to support zero waste programs; prioritize community education to priority investment neighborhoods ("PINs"); and start building the necessary infrastructure for diverting waste and processing anaerobic digestor waste.			Short-Term	2023		

		Attachment "1"	CUC					Item7
Status	Measure	Title	Reduction Potential (MTCO ₂ e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
Ongoing		Achieve 80 percent citywide waste diversion in 2030.	23,588		Mid-Term	2030		
Current diversion rate as of 2022 is approximately 26%, up 1% from 2021.		Achieve 90 percent citywide waste diversion in 2035.	27,405		Long-Term	2035		
		Strategy 9: Carbon Sequestration						
	C-9.1	Enforce Landscape Tree Requirements at New Developments.		CD; PW	Short-Term		Low	Medium
Not yet implemented		Adopt an updated landscape ordinance and in-lieu tree planting program to fund new tree plantings such as an in-lieu program to offset trees plantings on highly constrained sites.			Short-Term	2021		
Not yet implemented	Performance	Amend the updated landscape ordinance establish requirements for street and median trees and requirements for tree health (e.g. inspection, enforcement, and maintenance requirements).			Short-Term	2021		
Ongoing	Metrics	Plant and maintain 2,802 new trees at new developments by 2030.	183		Mid-Term	2030		
However, the City does not currently track trees planted at new developments at this time.		Plant and maintain 4,076 new trees at new developments by 2035.	239		Long-Term	2035		
	C-9.2	Develop a Citywide Urban Forestry Program.		CD; PW	Short-Term		Low	Medium
Not yet implemented CalFire typically provides an annual grant funding opportunity for the purposes of awarding local jurisdictions to improve their urban forests, including the use of funds for an urban forestry program. The City was anticipating application to the grant opportunity in CY 2023; however, CalFire announced that grant award has no funding at this time and are not accepting applications at this time. Staff will continue to monitor opportunities for funding an urban forestry program.	Performance Metrics	Pursue grant funding opportunities to fund the development of an Urban Forestry Program.	-		Short-Term	2021	-	
Not yet implemented		 Adopt an Urban Forestry Program with the goal of having one tree per resident in year 2088, which includes the following: Complete an assessment of existing conditions and calculate canopy coverage percentage for the City and for priority investment neighborhoods ("PINs"). 			Mid-Term	2025		

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Status	Measure	Title	GHG Reduction Potential (MTCO2e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
		 Establish a tree planting and replacement program to achieve coverage of at least 25 percent in residential areas and 15 percent in commercial and industrial areas. Develop an urban heat island reduction program that includes an urban forest program or plan for priority investment neighborhoods ("PINs") that achieves a tree planting coverage of at least 35 percent. Expand and focus tree plantings in low- canopy neighborhoods and neighborhoods at a higher risk of adverse outcomes of urban heat island effects. Encourage urban agriculture through edible landscapes within some publicly accessible areas. 						
Ongoing		Plant and maintain 1,010 new trees in public areas by 2030.	36		Mid-Term	2030		
The City planted approximately 119 trees and removed approximately 70 trees due to tree health and/or public health and safety issues. This yielded a net increase of approximately 49 trees planted in 2022. The City continues to offer the <u>Free Tree Program</u> . In 2022, the Public Works Department partnered with Urban Corps of San Diego to conduct outreach to residents on the Free Tree Program with a goal of planting approximately 150 new street trees (to be planted in 2023). The neighborhoods engaged with were prioritized based on the <u>City's Urban Surface</u> <u>Heat Viewer</u> .		Plant and maintain 1,347 new trees in public areas by 2035.	48		Long-Term	2035		
	C-9.3	Develop an Agricultural Land and Open Space Conservation Program.		CD	Mid-Term		Medium	Low
Not yet implemented		Adopt a Williamson Act Incentive Program.			Short-Term	2023		
Not yet implemented		Adopt a Community Garden Ordinance.			Short-Term	2023		
Not yet implemented	Performance Metrics	Adopt an Open Space Conservation Program.			Short-Term	2023		
Not yet implemented		Update the Jurisdictional Runoff Management Plan to develop stream and riparian restoration program strategies and work to naturalize and/or protect creek watershed areas.			Mid-Term	2025		
Not yet implemented		Remove the development potential for at least 257 residential units on agricultural lands and open space areas by 2030.	515		Mid-Term	2030		

	Attachment "1"									
Status	Measure	Title	GHG Reduction Potential (MTCO₂e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation		
Not yet implemented		Remove the development potential for at least 400 residential units on agricultural lands and open space areas by 2035.	762		Long-Term	2035				
		Strategy A-1: Become a "Climate Smart" Leader								
	A-1.1	Fully anticipate, plan for, and mitigate the risks of climate change and seize the opportunities associated with the social and environmental change.								
Ongoing		Annually monitor climate change research and best practices to improve the understanding of local climate change, weather-related emergencies and climate hazards, and to support climate change preparation efforts in local, state, and federal partners.			Short-Term	2020				
Not yet implemented		Adopt established methods for projecting the lifecycle carbon emissions of land use and transportation investments and begin to prioritize projects that have the greatest potential to sustain future changes and changing weather related emergencies and climate hazards.			Short-Term	2023				
Ongoing: The update to the 2023 MJHMP is underway and includes language to address climate impacts such as extreme heat and drought.	Adaptation Action	Assess climate impacts in the 2023 MJHMP update, incorporate social equity and environmental justice concepts to the extent practicable, and develop system wide approach to prepare for and respond to changing weather-related emergencies and climate hazard events.			Short-Term	2023				
Not yet implemented		Complete planning and establish priorities for plantings, materials, and infrastructure specifications that will be resilient to climate change hazards and be cost-effective over the lifetime of the asset in infrastructure design.			Short-Term	2024				
Not yet implemented		Update the "2020 Escondido Climate Adaptation Study."			Mid-Term	2025				
	A-1.2	Make sure that everyone is given the opportunity to be prepared for the current and future risks that are exacerbated by climate impacts.		-						
Ongoing: The planning division hired a long-range planner (end of 2021) to work on CAP implementation as a part of their role.		Designate point of contact(s) to establish and maintain staff ability and capacity to ensure effective implementation and equitable outcomes of climate action efforts. Initiate interdepartmental education and planning with City staff to motivate and seek opportunities for creative partnerships to jumpstart priority actions.			Short-Term	2020				
Not yet implemented	Adaptation Action	Identify and create collaborative partnerships with community-based organizations including vulnerable populations to broaden and diversify community engagement, and to support community-based initiatives that align with climate action planning priorities.			Short-Term	2022				
Not yet implemented		Partner with interested organizations to develop a climate change adaptation public outreach and education program. Engage typically underrepresented vulnerable populations by creating neighborhood climate ambassador liaisons ("Climate Ambassadors"). Climate Ambassadors can conduct outreach and secure commitment in priority investment neighborhoods ("PINs") to support climate			Short-Term	2023				

		Attachment "1"						11
Status	Measure	Title	GHG Reduction Potential (MTCO₂e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
		actions, initiate major initiatives, and coordinate investments, etc.						
Not yet implemented		 Provide quality information and/or "how-to" resources for local climate adaptation using interactive approaches that may include competition, feedback, and recognition. Activities may include: Provide free technical assistance to businesses. Develop working groups with workforce development and training organizations to integrate green jobs into existing work. Develop and implement a local green business program to provide recognition for business achievements. Partner with business groups to conduct Fix-It Fairs or participate in street-fairs by engaging under-served businesses in learning about sector opportunities. Hold regular workshops with building contractors on green building best practices. 			Mid-Term	2025		
Ongoing The City is currently working to obtain grant funding to conduct an update to the City's current evacuation plan. Additionally, the update to the MJHMP is underway, which identifies extreme heat as a top 5 hazard for the City. This will include the priority action to create an Extreme Heat Action Plan.		 Minimize health issues and disparities caused by weather-related emergencies and climate hazard events (such as extreme heat days), especially for populations most vulnerable to these impacts, by improving the preparation for and response from health, community service, public safety, and emergency staff, resources, and/or services. Actions may include: Leverage partnerships and support organizations to provide assistance to vulnerable populations in high fire hazard areas. Advertise outdoor worker protection measures, including heat safety and employment security. Develop a cool zone plan in consultation with resident, business, and community groups and provide updates in conspicuous locations online and on social media when cool zones are activated. Educate homeowners and tenants of multi-family housing about weatherization projects and the cost savings gained from energy efficient homes through training programs. Develop evacuation assistance plans and advertise their availability to vulnerable populations in hazard areas and be prepared to implement these plans as part of climate hazard areas and be prepared to implement these plans, risks of potential climate hazard events, and/or implementation status of these measures. 			Mid-Term	2026		
	A-1.3	Hardwire social equity and environmental justice into new programs and projects.						
Ongoing: The City is undergoing the creation on an environmental justice element as part of the 2022 GPA work effort, which will align with the CAP, and other existing environmental justice policies,	Adaptation Action	Develop a specific strategy or plan to redress social equity disparities by prioritizing and targeting CAP implementation projects into the most vulnerable areas as defined by the "2020 Social Equity and Health Index Map".			Short-Term	2020		

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Status	Measure	Title	GHG Reduction Potential (MTCO2e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
objectives, and goals, while creating new policies, objectives and goals not yet discussed by policy documents.								
Ongoing		Maximize mitigation benefits locally by prioritizing Escondido community specific (i.e. local) mitigation for GHG emissions and biological impacts/habitat loss. If no local mitigation credits or mitigation opportunities are available, allow project applicants to seek out regional solutions first. If no regional solutions are available then State solutions, with a preference to proximity.			Short-Term	2020		
Ongoing		 Consider establishing equity considerations for recreation/parks programming, planning, engineering, and public works projects, such as: Does the proposed action generate burdens either directly or indirectly to vulnerable populations? If yes, are there opportunities to avoid, minimize, or reduce those impacts? Can the benefits of the proposed action be targeted in ways to reduce vulnerable population disparities? Are the benefits of the proposed action broadly accessible to residents or businesses of vulnerable populations? 			Short-Term	2023		
	A-1.4	Develop working relationships with other agencies and continue to analyze climate impacts.						
Ongoing The City participated in the Comprehensive Corridor Management Plan in conjunction with SANDAG and NCTD in 2022.		Work with SANDAG and NCTD to make the regional transportation network more resilient, incorporate consideration of climate impacts as part of infrastructure planning and development, and prioritize transportation investments that have the capacity to adapt to climate change, while promoting social equity and environmental justice.			Short-Term	2020		
Ongoing	Adaptation Action	 Work with law enforcement, CAL FIRE, City of San Marcos, County of San Diego, City of Vista, and City of Poway to ensure updates for wildfire hazard maps and reduce risk from high fire hazard areas. Model future climate conditions to identify at-risk areas. Develop effective response mechanisms and evacuation scenarios. Identify areas within General Plan planning area where future development should be avoided, reconsidered, or mitigated, due to fire hazards. 			Short-Term	2022		
		Strategy A-2: Build Thriving and Resilient Neighborh	oods					
	A-2.1	Make sure that everyone has equitable access to healthy environments in which to live, work, and play.						
Not yet implemented	Adaptation Action	Identify and create collaborative partnerships with community-based organizations (e.g. San Diego Food System Alliance, California Food Link, San Diego New Farmers Guild, etc.) to develop equitable programmatic resources to increase the production and consumption of home grown and locally-sourced food by supporting farmers' markets; expanding community gardens on public and private lands; and other forms of urban agriculture to:			Short-Term	2022		

		Attachment "1"						
Status	Measure	Title	GHG Reduction Potential (MTCO ₂ e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
		 a. Support more resilient local agriculture on school campuses and at other public institutions or assembly spaces (e.g. church grounds, etc.) to help mitigate climate change and adapt to its impacts. b. Facilitate "Farm-to-School" programs for small farm-based businesses. c. Create local food maps and food distribution plans to preserve the affordability of local and sustainable food systems to ensure food security, nutrition, and public health. d. Support existing programs and/or create new programs to reduce investment risk and facilitate sustainable farming practices to connect more people to more local, farm-fresh foods. 						
Not yet implemented		Establish partnerships with local businesses and groups to provide educational opportunities for residents to gain skills in organic gardening, fruit production, composting, food preservation, and cooking healthy foods.			Short-Term	2022		-
Not Yet Implemented		 Review and update heat response plans to: Coordinate operations of readily accessible cooling centers. Recommend potential ways for property managers and homeowners' associations to implement Cool Zones. Develop an "early warning system" and response plans that alert residents, businesses, and community members, especially those most vulnerable to heat, when projected heat conditions exceed 100 degrees. 			Short-Term	2023		
Not yet implemented		Develop incentives to increase the planting of fruit trees in appropriate areas on private property.			Short-Term	2024		
Not yet implemented		Use regulatory and voluntary tools to increase access to neighborhood parks, passive parklands, parklets, and/or pop-up recreation programs to increase parkland coverage and/or expand equitable access to recreational opportunities.			Short-Term	2024		
Not yet implemented		Consider ways to improve equitable access to clean and sustainable energy. This could include the creation of a Clean Energy Equity Plan to support low-income residents and small organizations to purchase or obtain renewable energy. Also develop a program to engage with the Solar on Multi-Family Housing Program ("SOMAH") to support local green job training.			Mid-Term	2025		
	A-2.2	Create "climate safe and decent" housing options.						
Not yet implemented.	Adaptation	Increase the use of public and private roofs for rooftop gardens. Provide education on how private property owners can use rooftop gardens as an eco- friendly alternative to: bring greenery into a sterile space, provide a place to relax or grow food, delay stormwater runoff, and cool the building to reduce energy consumption. Expand green roof installations through outreach and incentives, such as the Stormwater Credit Fee.			Short-Term	2020		
Not yet implemented The City's Building Code was updated at the end of	Action	Update the building code to require new private buildings to have operable windows, providing choice levels of light, and wall-to-wall ventilation.			Short-Term	2023		
2022 to incorporate the State Building Code updates. However, neither action was incorporated into the local update due to staff capacity and the State's process required for including such local		Update the building code to mandate the installation of cool roofs on all new and retrofitted roofs on multi-family projects.			Short-Term	2023		

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Status	Measure	Title	GHG Reduction Potential (MTCO ₂ e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation	·.
requirements.									
These actions will be reassessed upon the 2025 CAP update to determine feasibility and better align with building standards.									
Not yet implemented		Pursue a green jobs plan component to the Clean Energy Equity Plan.			Mid-Term	2025			
Not yet implemented		 Develop and implement a mitigation plan for power outages, which may include the following: Adopt an ordinance that requires new senior housing or large care facilities to install air conditioning in all units and on-site home energy batteries and energy storage. The ordinance shall also require conversion projects to provide adequate on-site temperature-controlled spaces in indoor common areas, if any. Adopt an ordinance that requires new affordable housing projects to install air conditioning in all units. Require affordable rehabilitation projects or other conversions to provide adequate on-site temperature controlled spaces in indoor common areas, if any. 			Mid-Term	2027			
Ongoing: The City Council adopted Resolution No. 2021-169 to join the Clean Energy Alliance (CEA) Oct. 27, 2021. The City of Escondido will receive energy from the CEA beginning in 2023.		 Consider ways to reduce reliance on centralized sources for energy including: Facilitate access to local, decentralized renewable energy by incorporating renewable energy projects into CCA or other community-wide renewable programs. Complete a micro-grid feasibility study and begin implementation. 			Mid-Term	2028			
	A-2.3	Build capacity for adaptive neighborhoods.							
 Ongoing: a. Ongoing: These types of standards/provisions will be incorporated into the City's Community Protection chapter of the General Plan in the forthcoming 2022 GPA. In addition, the EFD continues to provide Defensible Space Inspections (337 in 2022) as well as proactive Defensible Space Inspections in the VHFHSZ (998 in 2022). b. Not yet implemented c. Ongoing: This will be incorporated as part of the City's 2022 GPA work effort with the Safety Element update. d. Ongoing: This type of information may be required during the discretionary entitlement phase. Additional standards/provisions will be 	Adaptation Action	 Utilize the "2020 High Fire Hazard Map" to better manage the risk of wildfires as a result of drier summers, especially in areas where homes are next to natural open space areas: a. Enforce statutory standards for provision of defensible space inhibiting wildfire spread on private properties and implement brush clearing and fuel breaks to manage the potential spread of wildfire. Fuel breaks should be implemented in areas where they make sense with efforts to avoid or minimize impact to important habitat unless it is necessary to protect structures. Evaluate other ways to reduce risks in and around wildland-urban interface areas that are rated as high fire hazard areas, such as improving the quality and plant palette around wildfire prone areas. b. Partner with SANDAG, other agencies, and North San Diego County cities for funding or acquisition and management of lands conserved for habitat protection and/or agricultural use. c. Develop opportunities to transfer development rights from very high fire hazard areas to less at-risk areas (e.g. urban infill areas, etc.) and/or seek 			Short-Term	2022			
10-20 2022 CAP ANNUAL MONITO	RING RE	PORT						9:	3

States Name Table Reduction (MTCOM)			Attachment "1"						Itom
incompared in the City's Community Protection: Chapter of the General III in the direction of the General III in the direction of the General IIII in the direction of the General IIII in the direction of the direction of th	Status	Measure	Title	GHG Reduction Potential (MTCO2e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
Not yet implemented Adopting patters in the Landscape Ordinance to withtaid for terms green roots, use a construction of patter yet environment to patter yet environment to get and yet increase cancer of yet and a constructions of registrations in the construction of and pattern yet environment. The construction and determine if pattern yet and will increase cancer of yet and a constructions of the same indicate of ordinance to withtaid of terms and environment. The construction and determine if pattern yet and will increase cancer of yet and a constructions of the same indicate of the same indind the same indicate and the same indicate same indica	incorporated into the City's Community Protection chapter of the General Plan in the forthcoming 2022 General Plan Amendment.		 other regulatory ways to incentivize land conservation or open space preservation. d. When analyzing new residential projects in very high fire hazard areas, incorporate evacuation route planning into the analysis. Evaluate brush fire spread and wildland fire behavior characteristics that utilize a 60 mph prevailing wind factor at a minimum, or higher wind speeds, if documented, as necessary. 						
Ongoing Utilize the "2020 Heat Vulnerability Map" to identify at-risk areas and help inform - - - Short-Term 2024 - - Uptilize the "2020 Heat Vulnerability Map" to identify at-risk areas and help inform - - - Short-Term 2024 - - - Uptilize the "2020 Heat Vulnerability Map" to identify at-risk areas and help inform - <td< td=""><td>Not yet implemented</td><td></td><td>Adopt plant palettes in the Landscape Ordinance to withstand drought conditions and promote plant-type resilience (in street and park trees, green roofs, etc.). Adopt a new tree code in the Landscape Ordinance that considers tree selections so that tree plantings are known to perform well in the general climate conditions, are climate resilient trees, and will increase canopy or vegetative cover. As part of the next CAP update, monitor tree canopy changes due to development and determine if policy and rule changes are needed.</td><td></td><td></td><td>Short-Term</td><td>2024</td><td></td><td></td></td<>	Not yet implemented		Adopt plant palettes in the Landscape Ordinance to withstand drought conditions and promote plant-type resilience (in street and park trees, green roofs, etc.). Adopt a new tree code in the Landscape Ordinance that considers tree selections so that tree plantings are known to perform well in the general climate conditions, are climate resilient trees, and will increase canopy or vegetative cover. As part of the next CAP update, monitor tree canopy changes due to development and determine if policy and rule changes are needed.			Short-Term	2024		
Ongoing: Complete: The Spruce Street Channel Improvement Project continues to include post-construction monitoring of vegetation. The City completed the Kit Carson Creek Restoration Vision Pala to identify problem areas and promote water quality in 2022. Coordinate a more integrated approach to flood or water-surge event planning and consider new innovative ways to adapt to climate impacts, including the following: Implement approach Implement approach <td>Ongoing The City continues to offer the Free Tree Program. In 2022, the Public Works Department partnered with Urban Corps of San Diego to conduct outreach to residents on the Free Tree Program with a goal of planting approximately 150 new street trees (to be planted in 2023). The neighborhoods engaged with were prioritized based on the <u>City's Urban Surface</u> <u>Heat Viewer</u>.</td> <td></td> <td>Utilize the "2020 Heat Vulnerability Map" to identify at-risk areas and help inform decisions and priorities about implementing ways to cool the urban environment. When evaluating programs, projects, and infrastructure in at risk areas and priority investment neighborhoods ("PINs"), prioritize efforts that decrease the urban heat island effect, especially in areas with populations most vulnerable to heat, through strategies like revegetation, tree preservation, new plantings, depaving and porous pavement, green infrastructure, and site-specific development design.</td> <td></td> <td></td> <td>Short-Term</td> <td>2024</td> <td></td> <td></td>	Ongoing The City continues to offer the Free Tree Program. In 2022, the Public Works Department partnered with Urban Corps of San Diego to conduct outreach to residents on the Free Tree Program with a goal of planting approximately 150 new street trees (to be planted in 2023). The neighborhoods engaged with were prioritized based on the <u>City's Urban Surface</u> <u>Heat Viewer</u> .		Utilize the "2020 Heat Vulnerability Map" to identify at-risk areas and help inform decisions and priorities about implementing ways to cool the urban environment. When evaluating programs, projects, and infrastructure in at risk areas and priority investment neighborhoods ("PINs"), prioritize efforts that decrease the urban heat island effect, especially in areas with populations most vulnerable to heat, through strategies like revegetation, tree preservation, new plantings, depaving and porous pavement, green infrastructure, and site-specific development design.			Short-Term	2024		
Not yet implemented Develop, adopt, and implement integrated plans for mitigating climate impacts in wildland-urban interface areas that include, but are not limited to the following: Mid-Term 2027	 Ongoing: a. Complete: The Spruce Street Channel Improvement Project continues to include post- construction monitoring of vegetation. The City completed the Kit Carson Creek Restoration Vision Plan to identify problem areas and promote water quality in 2022. b. Ongoing. The City's Engineering Division applied for a \$34 million grant for State and Federal funds that was awarded in 2023 for the East Valley and Midway Drainage System Project—a comprehensive effort to bring property owners out of certain FEMA flood zone areas to alleviate flooding and insurance burdens. The proposed area for the project would serve multiple PINs within the City. c. Not yet implemented 		 Coordinate a more integrated approach to flood or water-surge event planning and consider new innovative ways to adapt to climate impacts, including the following: a. Update the Jurisdictional Runoff Management Program to develop stream and riparian restoration program strategies and work to naturalize and/or protect creek watershed areas. b. Implement a program that systematically identify areas with underserved storm drains and secure funding for their upsizing. c. Increase resilience of natural systems by keeping natural resources areas and establish a fund to acquire or protect land in particularly vulnerable areas. 			Mid-Term	2025		
	Not yet implemented		Develop, adopt, and implement integrated plans for mitigating climate impacts in wildland-urban interface areas that include, but are not limited to the following:			Mid-Term	2027		

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Status	Measure	Title	GHG Reduction Potential (MTCO2e)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
		 Collaborate with agencies managing public lands to identify, develop, or maintain corridors and linkages between undeveloped areas. Use purchase of development rights or conservation easements to protect climate-vulnerable habitats. Develop, adopt, and implement integrated plans for mitigating wildfire impacts in the wildland-urban interface. Assess the financing capabilities and implementation feasibility of the Multiple Habitat Conservation Plan ("MHCP") or open space management. 						
	A-2.4	Build a sustainable and resilient transportation network.						
Ongoing In 2022, the City constructed 2 new bus shelters.		Work with NCTD to build more bus shelter amenities to help prevent health effects from long sun exposure and incentivize usage of public transportation.			Short-Term	2023		
Ongoing The City is working with Greenprint Partners and the San Diego Regional Policy & Innovation Center to pursue funding for a green infrastructure project within the City.		Evaluate and pursue stable funding sources and financing strategies to accelerate and sustain natural and green infrastructure within the public right-of-way.	-		Short-Term	2024		
Not yet implemented	Adaptation Action	Conduct walk audits around prioritized schools, transit boarding areas, and parks to encourage Safe Routes to Schools, Transit, and Parks.			Mid-Term	2025		
Ongoing As part of the Comprehensive Active Transportation Strategy ("CATS") currently under development in the Engineering Division (the CATS is a part of the greater Mobility and Infrastructure chapter update), City staff will evaluate transportation infrastructure based on such concepts.		Give greater weight to investing in improvements to transportation infrastructure that are projected to be affected by multiple climate changes and/or build in flexible options that can adapt to changing conditions.			Mid-Term	2026		