STAFF REPORT

April 6, 2022
File Number: 0110-20

SUBJECT

CLIMATE ACTION PLAN ANNUAL MONITORING REPORT (PL22-0075)

DEPARTMENT

Community Development - Planning Division

RECOMMENDATION

Request that the City Council review and receive the 2021-22 Climate Action Plan Annual Monitoring Report and recommend implementation milestones for the forthcoming reporting year (2022-23)

Staff Recommendation: Receive and File (Community Development: Adam Finestone)

Presenter: Veronica Morones, Senior Planner

FISCAL ANALYSIS

There are no direct fiscal impacts associated with this item. Future funding needs for Climate Action Plan ("CAP") implementation will be brought forward to City Council for consideration as separate action item(s) and incorporated into the budgeting process.

PREVIOUS ACTION

The City Council adopted the update to the 2013 CAP (PHG18-0009) on March 10, 2021.

ENVIRONMENTAL REVIEW

The CAP Monitoring Report is a reporting document, and does not create or alter policy. The content is provided for informational purposes only, and is exempt from the requirements of the California Environmental Quality Act ("CEQA") pursuant to CEQA Guidelines section 15378(b)(5), which exempts organizational or administrative activities of governments that will not result in direct or indirect physical changes in the environment. This informational item provides a means to monitor the success of implementing the CAP and review what was implemented during the 12-month reporting period.

BACKGROUND

The CAP identifies reduction targets to reduce citywide GHG emissions to 42 percent below 2012 levels by 2030, and 52 percent below 2012 levels by 2035. A total of 11 strategies for reducing citywide GHG emissions are identified within the CAP (refer to Tables 4-3 and 5-1 of the CAP). Each strategy contains a

varying number of measures that support the overall strategy. Within each measure are a number of performance metrics on how such reduction measure will be reached. It is important to note that two of the 11 strategies support their measures with adaptation actions instead of performance metrics (Strategies A-1 and A-2). City staff will provide annual updates to the City Council and Planning Commission on CAP implementation efforts. In addition to the annual reporting, the purpose of the Climate Action Plan Annual Monitoring Report is to set implementation milestones for the forthcoming reporting year.

This is the first CAP Annual Monitoring Report since the adoption of the update to the CAP in 2021.

The CAP Annual Monitoring Report provides information to assess the City's performance in achieving targets of the Climate Action Plan during the previous 12-month reporting period. The annual monitoring report will help identify any adjustments or modifications to the CAP, and means to improve local implementation. To achieve the GHG emissions reductions described within the CAP, strategies and measures must be reviewed, maintained, and implemented in a consistent manner to successfully serve the CAP's purpose.

The CAP outlines 17 items anticipated for implementation between 2020 and 2021. Out of those 17 items, 7 are underway or complete, and the remaining 10 are not yet implemented. An additional 33 items, scheduled for completion in 2022 or later, are ongoing or completed. Completed items include, but are not limited to, the City becoming a member of the Clean Energy Alliance (CEA), a community choice energy program, in October 2021; adoption and implementation of an organic waste and recycling program in December 2021; and retrofitting of over 1,000 streetlights with LEDs since March 2021. The total GHG reduction potential of the completed items account for a total estimated 6 metric tons of carbon dioxide equivalent (MTCO2e).

In addition to the outstanding 10 items scheduled for implementation by 2020 or 2021, an additional 7 items yet to be implemented are scheduled for completion in 2022.

ATTACHMENTS

1. Attachment "1" -- Planning Commission Staff Report (March 22, 2022)

ESCONDIDO
City of Choice

PLANNING COMMISSION

Agenda Item No.: H.1
Date: March 22, 2022

PROJECT NUMBER / NAME: Climate Action Plan Annual Monitoring Report (PL22-0075)

REQUEST: Review and receive the Climate Action Plan Annual Monitoring Report.

APPLICANT: City of Escondido

LOCATION: CityWide

PRIMARY REPRESENTATIVE: Veronica Morones, Senior Planner

APN / APNS: N/A

GENERAL PLAN / ZONING: N/A

DISCRETIONARY ACTIONS REQUESTED: N/A

PREVIOUS ACTIONS: On January 12, 2021, the Planning Commission reviewed the draft Climate Action Plan and unanimously recommended approval to the City Council with minor modifications.

PROJECT PLANNER: Veronica Morones, Senior Planner

CEQA RECOMMENDATION: Exempt pursuant to CEQA Guidelines section 15378(b)(5)

STAFF RECOMMENDATION: None

REQUESTED ACTION: Receive report and presentation.

CITY COUNCIL HEARING REQUIRED: ☐ YES ☒ NO

REPORT APPROVALS:

☒ Adam Finestone, AICP
Interim Director of Community Development

A. BACKGROUND:

In 2013 the City adopted a Climate Action Plan ("CAP") as a pathway toward creating a more sustainable, healthy, and livable community. The strategies outlined in the 2013 CAP were to not only reduce greenhouse gas ("GHG") emissions, but also to provide energy, fuel, water, and monetary savings to residents, businesses, and other community members--while improving the quality of life in Escondido. In 2018, City staff began a community process to update the City's CAP to re-establish a baseline GHG emissions inventory, project future GHG emissions, and set GHG reduction targets consistent with relatively newer state mandates. The City Council adopted the update to the 2013 CAP (PHG18-0009) on March 10, 2021.

The CAP identifies reduction targets to reduce citywide GHG emissions to 42 percent below 2012 levels by 2030, and 52 percent below 2012 levels by 2035. A total of 11 strategies for reducing citywide GHG emissions are identified within the CAP (refer to Tables 4-3 and 5-1 of the CAP). Each strategy contains a varying number of measures that support the overall strategy. Within each measure are a number of performance metrics on how such reduction measure will be reached. It is important to note that two of the 11 strategies support their measures with adaptation actions instead of performance metrics (Strategies A-1 and A-2). City staff will provide annual updates to the City Council and Planning Commission on CAP implementation efforts. In addition to the annual reporting, the purpose of the Climate Action Plan Annual Monitoring Report is to set implementation milestones for the forthcoming reporting year.

This is the first Climate Action Plan Annual Monitoring Report since the adoption of the update to the CAP in 2021.

B. SUMMARY OF REQUEST:

Receive the Climate Action Plan Annual Monitoring Report, documenting the City's progress on implementing the Climate Action Plan for the March 2021 – March 2022 timeframe.

C. SUPPLEMENTAL DETAILS OF REQUEST:

The Climate Action Plan Annual Monitoring Report provides an annual review of the CAP to assess the level of implementation and effectiveness of the CAP measures adopted. Implementation of measures identified in the CAP would meet the City's GHG reduction targets based on the analysis presented within the CAP. Therefore, it is necessary to provide annual monitoring to ensure the City is on target to meet the specific GHG reduction goals for the specified 2030 and 2035 years. Implementation of the CAP is achieved through two primary efforts: environmental review for new developments and City-led implementation activities.

D. PROJECT ANALYSIS:

The Climate Action Plan Annual Monitoring Report provides information to assess the City's performance in achieving targets of the Climate Action Plan during the previous 12-month reporting period. The annual monitoring report will help identify any adjustments or modifications to the CAP, and means to improve local implementation. To achieve the GHG emissions reductions described within the CAP, strategies and measures must be reviewed, maintained, and implemented in a consistent manner to successfully serve the CAP's purpose.

CAP Reduction Strategies

The CAP identifies 11 strategies for reducing citywide GHG emissions to target levels, with each strategy consisting of numbered measures (i.e., T-1.1, etc.) with detailed performance metrics/adaptation actions. As of March 2022, 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 “Client 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

Attachment 1 provides the Climate Action Plan Annual Monitoring Report--a detailed matrix of all CAP reduction strategies, measures, performance metrics/adaptation actions, and where they are in process by the responsible department/agency. Attachment 1 is formatted similarly to Table 4-3 of the CAP, with no data represented by a double dash. 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 March 2022
    - Not yet implemented: the action is yet to begin
    - Ongoing: the action is underway, but not yet complete
    - Completed: the action is complete

- **Measure**: the measure's identifying number
- **Title**: Measure's title/name
- **GHG Reduction Potential ($MTCO_2e$):** The total anticipated greenhouse gas emissions reduced by completely implementing 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
    - Short-term: 0-3 years
    - Mid-term: 4-10 years
    - Long-term: 10+ years
    - Ongoing: already occurring as of the 2021 CAP adoption
- **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

Table 4-3 of the CAP provides an assigned Responsible Agency/Department, Staff Implementation Costs, and Ease of Implementation only for the numbered measures listed under strategies 1 through 9. The CAP does not include this information for strategies A-1 and A-2. Rows that are highlighted in yellow are those with a "2020" or "2021" CAP Implementation Date and are not yet implemented. Rows highlighted in green are completed CAP items.

Findings

Table 4-3 of the CAP provides estimates on Staff Implementation Costs, Ease of Implementation, and Implementation Timeframe for numbered measures (i.e., T-1.1, E-4.1, etc.) of strategies 1 through 9. Staff evaluated these measures to assess their progress in implementation/completion. Overall, the City has implemented more measures with a mid-term Implementation Timeframe

than short-term, and more measures with a low Staff Implementation Cost than medium. The one Staff Implementation Cost measure (T-3.7) labeled as high has not been implemented. All of the measures with a high Ease of Implementation have performance metrics/adaptation actions that are underway or complete, in comparison with only three out of 11 with a low Ease of Implementation.

Housed within each implementation measure are the performance metrics and adaptation actions (outlined in Attachment 1). 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 or 2021, 7 out of 17 are underway or complete, with 10 not yet implemented. An additional 33 items, scheduled for completion in 2022 or later, are ongoing or completed. Completed items include, but are not limited to, the City becoming a member of the Clean Energy Alliance (CEA), a community choice energy program, in October 2021; adoption and implementation of an organic waste and recycling program in December 2021; and retrofitting of over 1,000 streetlights with LEDs since March 2021. The total GHG reduction potential of the completed items account for a total estimated 6 metric tons of carbon dioxide equivalent ($MTCO_2e$).

In addition to the 10 items scheduled for implementation by 2020 or 2021 yet to be implemented, an additional 7 items yet to be implemented are scheduled for completion in 2022.

E. FISCAL ANALYSIS:

There are no direct fiscal implications associated with this annual monitoring report.

F. ENVIRONMENTAL STATUS:

The Climate Action Plan Annual Monitoring Report is a reporting document, and does not create or alter policy. The content is provided for informational purposes only, and is exempt from the requirements of the California Environmental Quality Act ("CEQA") pursuant to CEQA Guidelines section 15378(b)(5), which exempts organizational or administrative activities of governments that will not result in direct or indirect physical changes in the environment. This informational item provides a means to monitor the success of implementing the Climate Action Plan and review what was implemented during the 12-month reporting period.

G. PUBLIC INPUT:

None.

H. CONCLUSION:

Receive and file.

ATTACHMENTS:

1. Climate Action Plan Annual Monitoring Report (2021-2022)

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 March 2022
    - Not yet implemented: the action is yet to begin
    - Ongoing: the action is underway, but not yet complete
    - Completed: the action is complete
- **Measure**: the measure's identifying number
- **Title**: measure's title/name
- **GHG Reduction Potential ($MTCO_2e$):** 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
    - Short-term: 0-3 years
    - 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
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- **Ease of Implementation**: level of effort required to implement
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- High: requires a general plan amendment or new policy/ordinances, robust outreach, regional cooperation, and securing long-term funding

Rows that are highlighted in yellow are those with a “2020” or “2021” CAP Implementation Date and are not yet implemented. Rows highlighted in green are completed CAP items, regardless of the implementation date. Cells with no data are represented by a double dash.

Attachment "1"
Climate Action Plan Annual Monitoring Report
March 2021 – March 2022

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
Completed for 2021	--	Annual monitoring report to Planning Commission and City Council, identifying CAP implementation efforts to date, CAP's performance in achieving targets, and set implementation milestones for the following year.	--	CD	--	March 2022	--	--
Not yet implemented	--	Establish Climate Commission: formal advisory group to help provide ongoing program support and guidance.	--	--	Short-Term	**2021**	--	--
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**	--	--
Completed. The planning division recently hired a senior planner (end of 2021) to work on CAP implementation.	--	Hire 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 Fuel Vehicles								
	T-1.1	Transition to a Clean and More Fuel- Efficient Municipal Vehicle Fleet.	--	PW	Mid-Term	--	Low	Low
Not yet implemented	Performance Metrics	Adopt a procurement policy for converting all municipal vehicle fleet to EVs and PHEV's.	--	--	Short-Term	**2021**	--	--
Ongoing: The City added 6 zero-emissions vehicles to the fleet.		Add 11 new EVs and PHEVs to the City fleet by 2030.	33	--	Mid-Term	2030	--	--
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	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	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 Metrics	Install 181 EV charging stations in Park and Ride lots by 2030.	463	--	Mid-Term	2030	--	--
Not yet implemented		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	Performance Metrics	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		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	--	--
Not yet implemented		Install 531 EV charging stations in multi-family and commercial developments by 2030.	3,513	--	Mid-Term	2030	--	--
Not yet implemented		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	Performance Metrics	Adopt an ordinance requiring EV charging station installation in new single- family homes and townhouses.	--	--	Short-Term	**2021**	--	--
Not yet implemented		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	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	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: A request for proposal for a traffic signal master plan to upgrade signal controllers and communication citywide is scheduled for release in Feb/March 2022, which is the initial steps to synchronizing traffic signals.	Performance Metrics	Synchronize traffic signals at 23 City-maintained intersections by 2030.	289	--	Mid-Term	2030	--	--
Not yet implemented		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	Performance Metrics	Establish a policy that requires the study of roundabouts at intersections with lower average daily trips, whereby the feasibility of roundabouts are evaluated for all new intersections and for existing intersections where capacity or safety problems have been identified.	--	--	Mid-Term	2025	--	--
Ongoing: One roundabout was installed in 2021 at a City maintained intersection, with 4 additional intersections planned for roundabout installation.		Install roundabouts at eight City-maintained intersections by 2030.	811	--	Mid-Term	2030	--	--
Ongoing		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	Performance Metrics	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		Reduce fuel consumed by construction equipment and construction fleets by 25 percent by 2035. It is assumed that 50% of new development projects would be exempt from this requirement.	2,508	--	Long-Term	2035	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
Not yet implemented		Conduct educational campaigns to promote fuel-efficient driving ("eco-driving") practices, such as reduced idling, slower driving speeds, gentle acceleration, and proper tire inflation.	--	--	--	--	--	--
Not yet implemented		Update the City's General Plan Mobility and Infrastructure Element to support network build-out and improved traffic flow.	--	--	--	--	--	--
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	--	--	--	--	--	--
Strategy 3: Reduce Vehicle Miles Traveled								
	T-3.1	Participate in the SANDAG iCommute Vanpool Program.	--	CM; CD	Ongoing	--	Low	Low
Not yet implemented	Performance Metrics	Maintain a minimum of 36 SANDAG vanpools annually that start or end in the City in 2030.	837	--	Mid-Term	2030	--	--
Not yet implemented		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 working on the RFP to solicit bids for developing an active transportation plan. The RFP is anticipated in Spring 2022.	Performance Metrics	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		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

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
Not yet implemented ES is working on the RFP to solicit bids for developing an active transportation plan. The RFP is anticipated in Spring 2022.	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	--	--
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.	82	--	Long-Term	2035	--	--
Not yet implemented		Increase the percent of students bicycling to school in the EUSD to 2.5 percent in 2035.		--	Long-Term	2035	--	--
	T-3.4	Develop a Citywide TDM Plan.	--	CD	Short-Term	--	Medium	Medium
Not yet implemented	Performance Metrics	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		Increase bicycle commute mode share to 2.0 percent citywide and 3.5 percent in the downtown employment center in 2030.	533	--	Mid-Term	2030	--	--
Not yet implemented		Increase transit commute mode share to 4.5 percent citywide and 7.5 percent in the downtown employment center in 2030.		--	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	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
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
Not yet implemented		Develop and implement a citywide bike rack policy.	--	--	Short-Term	2024	--	--
Ongoing: Escondido Creek Trail Expansion and Renovation Project is under environmental review as of February 2022, with anticipated construction starting in late 2022 for Phase 1.		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	Performance 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	--	--
Not yet implemented		Install at least 19 miles of new Class II or better bicycle lanes by 2030.	231	--	Mid-Term	2030	--	--
Not yet implemented		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	Performance Metrics	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		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	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
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
Not yet implemented	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	--	--
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
Not yet implemented	Performance Metrics	Increase internal-external/external-internal commute transit mode share of 4 percent by 2030.	7,829	--	Mid-Term	2030	--	--
Not yet implemented		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: Transportation Impact Analysis Guidelines with a per capita and employee based VMT threshold adopted in April 2021.	Performance Metrics	Reduce citywide VMT to 1.8 percent below projected 2030 VMT levels in 2030.	5,829	--	Mid-Term	2030	--	--
Ongoing		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	--	--	--	--	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
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	Performance Metrics	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		Establish incentives for landlords and homeowners to upgrade to electric heat pump water heaters.	--	--	Mid-Term	2025	--	--
Not yet implemented		Approve 995 new residential units served by electric heat pump water heaters by 2030.	629	--	Mid-Term	2030	--	--
Not yet implemented		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	Performance Metrics	Adopt an ordinance, effective in 2023, requiring the installation of electric cooking appliances.	--	--	Short-Term	2022	--	--
Not yet implemented		Establish incentives for landlords and homeowners to upgrade to electric cooking appliances.	--	--	Mid-Term	2025	--	--
Not yet implemented		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

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
Completed. As of July 2021, 1,010 street lights retrofitted.	Performance Metrics	Retrofit 300 existing HPS streetlights with LEDs by 2030.	3	--	Mid-Term	2030	--	--
Completed. As of July 2021, 1,010 street lights retrofitted.		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	Performance Metrics	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		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	--	--	--	--	--	--
Strategy 5: Increase Renewable and Zero Carbon Energy								
	E-5.1	Increase Renewable Energy Generated at Municipal Facilities	--	ES; PW	Ongoing	--	Low	Medium
Not yet implemented	Performance Metrics	Install at least 0.8 MW of PV at municipal facilities and parking lots by 2030.	292	--	Mid-Term	2030	--	--
Not yet implemented		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	Performance Metrics	Adopt a Zero Net Energy ordinance effective in 2023.	--	--	Short-Term	2022	--	--
Not yet implemented		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	--	--

Attachment "1"
Climate Action Plan Annual Monitoring Report
March 2021 – March 2022

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
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. During FY 2020-2021, a joint study with the Cities of Vista and San Marcos occurred. The City Council adopted Resolution No. 2021-169 to join the Clean Energy Alliance (CEA) Oct. 27, 2021.	Performance Metrics	Complete a CCA/CCE feasibility study.	--	--	Short-Term	2021	--	--
Not yet implemented		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	--	--
	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 remaining sites in 2022/2023 FY.	Performance Metrics	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:		Support the efforts at the Hale Avenue Resource Recovery Facility (HAARF) to create renewable electricity and heat for municipal operations	--	--	--	--	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
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.								
Strategy 6: Increase Water Efficiency								
	W-6.1	Reduce Municipal Landscape Water Consumption.	--	ES; PW	Ongoing	--	Low	Medium
Not yet implemented	Performance Metrics	Reduce water use at City Parks and in the City's LMD by 84 acre-feet in 2030.	45	--	Mid-Term	2030	--	--
Not yet implemented		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 Metrics	Adopt an updated landscape ordinance effective 2022.	--	--	Short-Term	**2021**	--	--
Not yet implemented		Approve the development of 130 new single-family homes or townhouses with greywater systems and rain barrels by 2030.	8	--	Mid-Term	2030	--	--
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 Metrics	Supply 6,721 acre-feet of water to agricultural customers from the MFRO facility in 2030.	3,541	--	Mid-Term	2030	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
Not yet implemented		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). Residential organic waste and recycling program began in Feb. 2021; and nonresidential is currently underway, with enforcement ordinance carried out at end of 2021, and additional actions ongoing through 2022.		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 with first composting workshop set for February 2022 (anticipate 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.		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	--	--
Ongoing: Current diversion rate as of 2021 is approximately 25%.		Achieve 80 percent citywide waste diversion in 2030.	23,588	--	Mid-Term	2030	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
Ongoing		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	Performance Metrics	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		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		Plant and maintain 2,802 new trees at new developments by 2030.	183	--	Mid-Term	2030	--	--
Ongoing		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	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”). • 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.	--	--	Mid-Term	2025	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
Ongoing		Plant and maintain 1,010 new trees in public areas by 2030.	36	--	Mid-Term	2030	--	--
Ongoing		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	Performance Metrics	Adopt a Williamson Act Incentive Program	--	--	Short-Term	2023	--	--
Not yet implemented		Adopt a Community Garden Ordinance	--	--	Short-Term	2023	--	--
Not yet implemented		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	--	--
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	Adaptation Action	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	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
Ongoing: The update to the 2023 MJHMP is underway, and includes language to address climate impacts such as extreme heat and drought.		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 recently hired a senior planner (end of 2021) to work on CAP implementation.		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		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	Adaptation Action	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 actions, initiate major initiatives, and coordinate investments, etc.	--	--	Short-Term	2023	--	--
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	--	--	Mid-Term	2025	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
		• Hold regular workshops with building contractors on green building best practices.						
Not yet implemented		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-related emergency operations. • Utilize citywide publication and social media to reach a broad audience to advertise preparedness, 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, which will incorporate aspects of the CAP, and other existing environmental justice policies, objectives, and goals, while creating new policies, objectives and goals not yet discussed by policy documents.	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	--	--
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	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
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	Adaptation Action	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		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 Neighborhoods								
	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: 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.	--	--	Short-Term	2022	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
		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	--	--
Ongoing		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 Action	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		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	--	--
Not yet implemented		Update the building code to mandate the installation of cool roofs on all new and retrofitted roofs on multi-family projects.	--	--	Short-Term	2023	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
To be incorporated in next building code update cycle, beginning July 2022.								
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.		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 General Plan Amendment. b. Not yet implemented c. Not yet implemented d. Ongoing: This type of information may be required during the discretionary entitlement phase. Additional standards/provisions will be incorporated into the City's Community Protection chapter of the General Plan in the forthcoming 2022 General Plan Amendment.	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, and/or other ways to reduce risks in and around high fire hazard 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	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
		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.						
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		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	--	--
Ongoing: a. Complete: The Spruce Street Channel Improvement Project construction was completed last year and we are now monitoring the vegetation. We also recently completed the Kit Carson Park/Eagle Scout Lake Restoration Vision Plan (Did you see a copy of this from Elisa?). Eagle Scout Lake Bridge progressed to 60% engineering design and we have begun the environmental permitting process. b. Not yet implemented 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: • Collaborate with agencies managing public lands to identify, develop, or maintain corridors and linkages between undeveloped areas.	--	--	Mid-Term	2027	--	--

Status	Measure	Title	GHG Reduction Potential ($MTCO_2e$)	Responsible Department/ Agency	Implementation Timeframe	CAP Implementation Date	Staff Implementation Costs	Ease of Implementation
		• 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	--	--			--	--
Not yet implemented	Adaptation Action	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	--	--
Not yet implemented		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		Conduct walk audits around prioritized schools, transit boarding areas, and parks to encourage Safe Routes to Schools, Transit, and Parks.	--	--	Mid-Term	2025	--	--
Not yet implemented		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	--	--