

**Special Meeting of the  
COMMITTEE ON  
ENERGY AND THE ENVIRONMENT  
AGENDA**

**February 3, 2021 – 5:00 P.M.**

On March 3, 2020 Governor Newsom proclaimed a State of Emergency due to COVID-19 and subsequently issued Executive Orders N-25-20 suspending provisions of the Brown Act allowing meetings via teleconferencing and members of the public to observe and offer comments telephonically or electronically.

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If you wish to speak on an item listed on this agenda, please complete and submit a speaker card here <http://forms.cityofpleasantonca.gov/f/pleasantonseamlessdocscom/EnergyandEnvSpeakerCard> 5:00 p.m. the day of the meeting, February 3, 2021.

**CALL TO ORDER**

**ROLL CALL**

**AGENDA AMENDMENTS**

**MEETING OPEN TO THE PUBLIC**

1. Public comment from members of the audience regarding items not listed on the agenda.

**OTHER MATTERS BEFORE THE COMMITTEE**

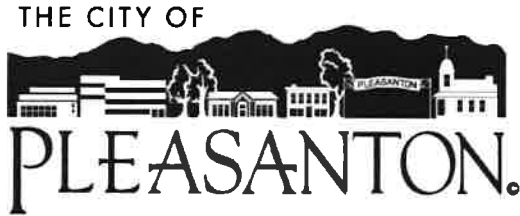
2. Climate Action Plan 2.0 Action Prioritization Criteria Weighting

**MATTERS INITIATED BY COMMITTEE MEMBERS:** Brief reports on conferences, seminars, and meetings attended by Committee members.

**ADJOURNMENT**

**Accessible Public Meetings**

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# The Committee on Energy and the Environment Meeting

## Agenda Report

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February 3, 2021

Item 2

### **SUBJECT: CLIMATE ACTION PLAN 2.0 ACTION PRIORITIZATION CRITERIA WEIGHTING**

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#### **SUMMARY**

In October 2020, the Committee on Energy and Environment (Committee) provided direction to staff on the proposed action prioritization criteria. These criteria will be used to develop a shortlist of actions to be included in the Climate Action Plan Update (CAP 2.0). The City Council affirmed the proposed criteria in November 2020. Staff introduced potential weights to the Committee on January 27, 2021. Staff is seeking Committee direction on the suggested weighting that will be applied to the criteria.

#### **RECOMMENDATION**

Discuss and provide a recommendation about the suggested criteria weighting.

#### **FINANCIAL STATEMENT**

None.

## BACKGROUND

The universal list of actions that may be included in the CAP 2.0 may be extremely long. However, including too many actions in the CAP 2.0 is undesirable for several reasons including resources (e.g., cost and staff time) to complete the actions and feasibility to implement the actions proposed. Preferably, the CAP 2.0 includes a limited quantity of highly impactful actions that are implementable. The action prioritization criteria will weight/score the actions against each other to narrow down the universal list of actions which may be included in the CAP 2.0, to establish a prioritized shortlist of actions for inclusion.

The City Council affirmed the Committee's suggested action prioritization criteria as follows:

- **Effectiveness:** Action effectiveness including emissions-reduction and/or resilience-building potential
- **Cost:** Action cost to implement including affordability and expenditure timeframe for both the City and community
- **Co-Benefits:** Action realization of co-benefits including improved public health and job creation
- **Equity:** Action equity in the distribution of benefits and consideration of disadvantaged populations
- **Feasibility:** Action feasibility including degree of City control, regulatory or political constraints, and technological considerations
- **Support:** Action level of support from external partners and community
- **Urgency:** Action urgency given other policies<sup>1</sup>

Staff request's the Committee's direction on the weighting that should be applied to the criteria.

## DISCUSSION

### Universal Action List

Staff and the consultant team have developed a universal list of potential strategies and actions that may be included in the CAP 2.0, Attachment 1. The list was developed from the following sources:

- Reviewing the existing Climate Action Plan
- Including best practices and actions from neighboring jurisdictions and other cities that have prepared Climate Action Plans
- Input from the public (e.g., online survey and public comments received to date), the Committee, and City staff

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<sup>1</sup> This criterion would be applied during the implementation plan stage to determine which actions require more urgent action given other factors

- Discussion at six different focus groups that included stakeholders and implementation partners (e.g., PG&E, Zone 7, StopWaste, etc.)

To narrow down the universal action list, the next step will be to undertake a multi-criteria analysis (MCA) to arrive at a prioritized shortlist of actions. Staff wants to point out that the universal action list may be expanded further as we continue the CAP update process and as new ideas and potential actions emerge, including at the community workshop that will be held in spring. Actions added to the universal action list will be reviewed through the MCA lens, even if they are added later in the process.

### Multi-Criteria Analysis

The first step of the MCA is to determine if the actions meet the CAP 2.0 Vision and Guiding Principles. If so, they will continue to the next step of evaluation. In the next step, each action will receive numerical scores based on the action prioritization criteria.

While the MCA will be qualitative, the consultant team (Cascadia) will assign scores for each action based on best judgement drawing from available literature, peer city case studies, and consultant experience. They will develop score matrices to allow for a consistent and objective ranking process of the universal action list.

In some cases, criteria will be divided into sub-criteria to inform the scoring process. These sub-criteria ensure that the evaluation considers the various facets of the criterion; for example, “feasibility” could consider an array of constraints ranging from City capacity, to regulatory, political, and technology constraints. Actions that land on different values for sub-criterion will be assigned an average score for that criterion.

Below is an example Cascadia used for the City of Everett, WA CAP. This example uses slightly different criteria than will be included in the Pleasanton CAP. In this example, while both actions have the same impact, cost, and co-benefits scores, the second action is substantially more feasible and somewhat more equitable. As a result, the second action received an overall higher score and better achieves the City’s climate goals.

Action	Priority Score	Impact	Equity	Cost	Feasibility	Co-benefits
<b>Advocate for regional congestion pricing authority.</b>	<b>2.8</b>	4	1	4	2	3
<b>Accelerate the implementation of the “Complete Streets” policy.</b>	<b>3.4</b>	4	2	4	4	3

The scores assigned will then be weighted. The weighting may change an actions priority on the universal list of actions. As noted above, the goal will be to create a prioritized shortlist of actions (i.e., the highest ranked actions). A more detailed quantitative assessment will be conducted for the shortlist of actions that will provide estimates of the costs and greenhouse gas emissions reductions.

Criteria Weighting

Criteria can be weighted a variety of ways. One factor to help determine the weighting is the CAP Community Survey (Survey #1). Survey #1 received 531 responses and gathered input across several questions. Attachment 1 provides a summary of the responses received. Based on the survey results, impact/effectiveness, feasibility, and cost are the most important criterion (though it should be noted that support was not an option in the survey).

One option is to apply equal weight for all criteria. Each of the criterion have been determined to be important to the City and chosen as a criterion, so equal weighting could be an appropriate approach. If all equal, each criterion would be weighted ~16.7%. However, Cascadia recommends against this approach preferring weighting that better reflects community priorities. As such, staff recommends the following weighting:

- **Effectiveness:** 24%
- **Cost:** 24%
- **Feasibility:** 22%
- **Co-Benefits:** 12%
- **Support:** 10%
- **Equity:** 8%

Cascadia has noted that effectiveness and cost are typically among the highest weighted factors. These two factors were among the top three in the survey. While the survey ranks cost slightly lower than feasibility, staff recommends cost have a slightly higher weight due to Council feedback and conversations surrounding cost in the process to date. An example of how the weighting may alter an action’s ranking is as follows:

Action	Score no Weighting	Score with Weighting	Effectiveness	Cost	Feasibility	Co-Benefits	Support	Equity
<b>Example Action</b>	2.83	3.04	3	3	4	3	2	2

With no weighting (or rather equal weighting) applied, the example action receives a priority score of 2.83. The proposed weighting increases the priority score to 3.04 due to the various weights of the criteria. This is not a dramatic difference, though will alter the final scores (and action rankings) emphasizing the criteria with the highest weights.

The weighting percentages recommended above can be increased or decreased as the Committee sees fit (any combination adding up to 100% will work). The greater the gap between the highest percent and lowest percent, the more the weighting will impact the final rankings of the actions. While the MCA will help establish a shortlist of actions, staff acknowledges there may be some actions that are not prioritized highly but ultimately may be included in the plan as either supporting actions (e.g., community outreach and education) or primary actions of high importance to the community (e.g., water quality or conservation actions).

Results of the MCA (i.e., the action rankings) and decisions to include/exclude actions from the action shortlist will be transparent. The shortlist will be shared with the Committee and in the forthcoming public outreach which will include a community workshop and outreach to other Committees, Commissions, and stakeholders. Further, actions may be added for analysis that arise in the forthcoming outreach. Staff will present outcomes of the outreach with the Committee and the Committee will make the final recommendation to City Council of which actions to include in the CAP 2.0.

Discussion Questions:

Staff poses the following discussion questions to the Committee:

1. Which criteria does the Committee find should be given the highest weights? Is the ranking (most important to least) appropriate or would the Committee prefer the list to be reordered?
2. Does the Committee prefer a larger gap between the highest weighted criteria and the lowest (i.e., the weights will impact the scores to a greater degree)? What about a smaller gap? Or is equal weighting preferred?

Attachments

1. Draft Strategies and Actions List

Submitted by:



Megan Campbell  
Associate Planner

Approved by:



Becky Hopkins  
Assistant to the City Manager

# DRAFT STRATEGIES AND ACTIONS

## Pleasanton CAP 2.0 Strategy Development

### Introduction

The draft strategies and actions are the product of the following process and inputs:

1. The Cascadia Consulting Group (Cascadia) team prepared an **initial list of draft strategies and actions**, based on Pleasanton's past climate action, current best practices and best available science, and peer city efforts.
2. City of Pleasanton staff reviewed the initial list and recommended **changes to improve the feasibility and relevance of actions**.
3. The City convened **six focus groups and a workshop with the Energy and Environment Committee (EEC)** to discuss a short list of highly relevant actions that are high-priority and especially impactful; potentially controversial or divisive; and/or especially need collaboration or buy-in to implement. EEC discussed the full list of draft strategies and actions; the six focus groups covered specific topics and were organized as follows:
  - ▶ Buildings & energy
  - ▶ Transportation
  - ▶ Waste & materials
  - ▶ Water & natural resources
  - ▶ Business perspectives
  - ▶ Community perspectives
4. Cascadia and the City **revised the strategies and actions** based on input from the focus groups to generate the list in this document.

This document includes the full list of draft strategies and actions currently being considered. This list can be expanded through the course of public outreach if new actions emerge for consideration.

## Buildings & Energy

### Strategy A. Advance building decarbonization

Action Number	Action Short Name	Action Description
1001	All-electric reach code	Adopt an all-electric building reach code for new construction that limits the development of new gas infrastructure where economically feasible. Ensure solutions equitably tailored to different building, ownership, and use types.
1164	Existing Building Electrification Plan	Develop an Existing Building Electrification Plan to advance electrification of existing residential and non-residential buildings. Include policy, incentive, and outreach approaches for converting from natural gas and propane to clean electricity, and prepare an action plan once the electrification analysis (Action 1118) is complete. Use a phased approach that focuses first on municipal buildings, community education, and voluntary communication action, then becomes mandatory over time. Consider disclosures for permitting to improve compliance.
1003	Electric panel upgrade incentive policy	As part of the Existing Building Electrification Plan implementation, introduce local policies that incentivize electrical panels upgrades that prepare buildings for full electrification, such as streamlined permitting.
1006	Electric panel upgrade upon sale requirement	As part of the Existing Building Electrification Plan implementation, consider electric panel upgrade upon sale requirements for low-rise residential, and small multifamily and commercial buildings.
1118	Electrification analysis of existing buildings	As part of the Existing Building Electrification Plan development process, conduct an existing building electrification analysis to identify areas of opportunities, building types, and prerequisites needed (e.g., solar, current energy consumption) to make electrification cost-effective in the community.
1117	Electrification upon replacement requirement	As part of the Existing Building Electrification Plan implementation, consider limiting approval of permits for new natural gas HVAC and/or hot water heaters upon replacement.
1165	Electrification ordinance for existing buildings	Adopt an electrification ordinance for existing buildings, implemented through the building permit process, to transition natural gas to electric.
1004	Electrification outreach	Continue to conduct education and outreach on commercial and residential energy efficiency and electrification.



**PLEASANTON CAP 2.0**  
DRAFT STRATEGIES AND ACTIONS

<b>1002</b>	Financial incentives for electrification	Leverage partnerships to provide financial incentives for existing residential and commercial electrification.
<b>1144</b>	Refrigerant management in existing buildings	Pilot retrofit and financing mechanisms to improve refrigerant management in existing construction. Substantial emissions reductions could be achieved through the adoption of practices to avoid leaks from refrigerants and destroying refrigerants at end of life, both after the adoption of HFC-alternatives.
<b>1166</b>	Regional electricity grid improvements	Work with EBCE and regional municipalities to develop a plan for a robust regional electrical grid that minimizes the risk of power outages and demand for diesel or gas generators. Opportunities may include utility scale solar farm and small-scale solar + storage
<b>1167</b>	LEED certification for new construction	Adopt an ordinance requiring new buildings of a certain size to have LEED silver certification.
<b>1168</b>	Net zero new construction	Adopt an ordinance requiring all new construction be net zero. The City should develop clear guidelines, code, and standards for the community.
<b>1169</b>	Refrigerant management in new construction	Require that all new construction utilize the lowest GWP refrigerants available for equipment and systems.
<b>1170</b>	Low-carbon backup generation	Develop incentives and promote the use of lower-carbon fuel sources for backup generation.
<b>1171</b>	Hot water heater outreach and education	Continue to conduct education and outreach on hot water heater replacements, including promoting financial incentives from EBCE and BayREN.
<b>1172</b>	Limited sales of natural gas space and water heaters	Limit the sale of natural gas space heaters and water heaters.

***Strategy B. Expand use of renewable energy***

Action Number	Action Short Name	Action Description
<b>1018</b>	Community renewable energy goal	Evaluate existing installed renewable energy capacity in community and set future community goal.

**PLEASANTON CAP 2.0**  
DRAFT STRATEGIES AND ACTIONS

<b>1022</b>	Parking lot solar panels for EVs	Install solar panels at public parking lots to support EV charging stations.
<b>1163</b>	Require solar on new construction	Adopt an ordinance expanding the requirements for buildings to be solar-ready (e.g., pre-wiring, space on roof) to include solar installation on new construction of a certain size.
<b>1020</b>	Streamline permitting of renewables and energy storage systems	Streamline permitting for implementation of renewable energy generation systems and energy storage infrastructure.
<b>1119</b>	Upgrade default EBCE choice	Maintain a default EBCE choice for the community that ensures the community is receiving zero-emission energy.
<b>1173</b>	Municipal solar panels	Install solar panels and storage at parking lots, parks, library, senior centers, and other municipal buildings.
<b>1174</b>	Solar retrofit strategy	Develop a retrofit strategy for existing buildings/parking lots to install solar panels and storage.
<b>1175</b>	Upgrade default EBCE choice for municipal operations	Maintain the highest renewable energy choice as the default for all municipal facilities, including opportunities to secure Power Purchase Agreements with other EBCE jurisdictions.

***Strategy C. Improve energy consumption and efficiency***

<b>Action Number</b>	<b>Action Short Name</b>	<b>Action Description</b>
<b>1008</b>	Conduct municipal energy retrofits	Conduct energy retrofits of existing City facilities and equipment.
<b>1012</b>	Pleasanton Green Guide	Update of Pleasanton Green Guide on an annual basis. The guide acts as a one stop green resource for reducing personal carbon footprints and living more sustainably.
<b>1013</b>	Revolving loan fund	Establish a revolving loan fund for home performance audits and system upgrades.
<b>1016</b>	School energy audits	Assist area schools with energy audits and green building checklists to evaluate and improve the energy efficiency of school facilities.
<b>1014</b>	Passive lighting	Promote use of solar tubes, skylights and other daylighting systems through incentives, partnerships, and/or education and outreach with contractors.

**PLEASANTON CAP 2.0**  
**DRAFT STRATEGIES AND ACTIONS**

1160	State Building Energy Disclosure Program	Implement the State Building Energy Disclosure Program by conducting outreach to large building owners (i.e., >50,000 sq. ft.) on the requirements of AB 802 and incentivizing voluntary disclosure for residential buildings.
1176	Community energy efficiency upgrades	Promote use of energy efficiency improvements (e.g., window upgrades, LED lighting) across the community through incentives, partnerships, and/or education and outreach. Promote energy star
1177	Energy benchmarking for new construction	Require energy benchmarking for new construction to compare the energy performance of buildings over time and across the City to inform and motivate performance improvement.

## Transportation & Land Use

### *Strategy A. Advance active, shared, and public transportation*

Action Number	Action Short Name	Action Description
1080	Bike storage incentive program	Create a citywide incentive program for expanded bike racks and storage.
1081	Bike/pedestrian outreach & education	As part of the Pleasanton Pedestrian and Bicycle Master Plan, provide educational opportunities for residents about bike/pedestrian safety.
1083	Carpool program	Incentivize use of carpool programs to/from transit station parking.
1120	City bikeshare	Increase access to bikes through expanded bike parking and/or electric bike rentals and rebates.
1070	City information resources	Partner with the County to develop and promote resources that provide residents with transportation alternatives that reduce motor vehicle emission, for planned events, concerts, festivals, and conventions
1113	City-owned telecommuting centers	Explore the use of City-owned facilities such as libraries and unused office space to expand city telecommuting options while continuing to support businesses historically reliant on commuters. Potential locations include schools, city buildings, other public buildings, and multi-purpose rooms.
1064	Complete streets expansion	Consistent with the Bike/Ped Master Plan, increase the extent and quality of the complete street network to ensure residents and visitors alike have safe, convenient, and affordable transportation options. Specific measures could include ensuring bicycle and pedestrian improvements are implemented into all standard maintenance and repaving, planning studies, roadway redesign, and auto-focused CIP projects.
1065	Curb management program	Research and develop a curb management program that prioritizes carbon reduction.
1066	Delivery BMIPs	Facilitate partnerships to explore methods to reduce delivery trips, prioritize bicycle delivery and smaller vehicles, idling while loading/ unloading and emissions from delivery vehicles.
1071	Designated motorcycle/scooter parking	Provide designated motorcycle and scooter parking downtown.

**PLEASANTON CAP 2.0**  
DRAFT STRATEGIES AND ACTIONS

<b>Action Number</b>	<b>Action Short Name</b>	<b>Action Description</b>
<b>1062</b>	Expand Municipal TDM program	Expand municipal transportation demand management program for local businesses employees to encourage alternative modes of travel and reduce single-occupant vehicle use.
<b>1076</b>	HOA transit incentives	Modify the municipal code to require new residential developments within 1/2 mile of a transit stop to offer discounted transit passes as part of HOA amenities, payable through the HOA dues.
<b>1067</b>	Neighborhood telecommuting centers	Create incentive program(s) that encourage the development of neighborhood telecommuting centers.
<b>1068</b>	Park & ride incentives	Create incentives to develop park and ride lots.
<b>1079</b>	Required bike parking at MF/Comm developments	Modify the Pleasanton Municipal Code to require bike parking for non-residential and multifamily developments of a certain size.
<b>1114</b>	Ride hailing tax	Work with state to put a tax on Uber/Lyft that provides funding for bike and pedestrian programs.
<b>1082</b>	Trails Master Plan implementation	Implement the Pleasanton Trails Master Plan, with an emphasis on improvements that incentivize transition to non-SOV modes (e.g., multi-use trails).
<b>1077</b>	Transit master plan	Develop and implement a transit system master plan for the city.
<b>1069</b>	Transportation idling policy and ordinance	Adopt a measure requiring large vehicles, off road equipment owned by the City, and/or private contractors to restrict engine idling.
<b>1078</b>	Workplace bike amenities	Adopt an ordinance that requires showers, lockers, changing areas, bike parking, and protected bicycle storage for large new employers/commercial development and renovations.
<b>1178</b>	Anti-idling campaign for schools.	Partner with the California Air District on the anti-idle campaign and work with schools to reduce idling.
<b>1179</b>	Encourage alternative commuting	Encourage employers to use Scoop, carpool, and alternative methods for commute.
<b>1180</b>	Increase transit ridership	Partner with transit agencies (e.g., BART, ACE, and LAVTA) to improve access to transit, by providing seamless transitions between transit facilities and the public right-of-way and bicycle network and providing secure bicycle parking at transit stations and major bus stops (e.g., BART to Main Street).

Action Number	Action Short Name	Action Description
1181	Valley Link rail development	Work with regional partners to support the development of Valley Link rail.
1182	Expand bike lane network	Expand the bicycle lane network with a focus on designated and protected (e.g., by parking) bike lanes, especially to parks and schools.
1183	Improvements to VMT and TDM programs	Track progress over time through TDM modeling and traffic counts to comply with SB 743. Identify opportunities to align implementation of new VMT-reduction technologies and projects with SB 743 requirements.
1184	VMT reduction study for K-12 activities	Explore opportunities to reduce VMT related to K-12 curricular and extra-curricular activities.

***Strategy B. Advance sustainable land use***

Action Number	Action Short Name	Action Description
1107	Adopt CALGreen development tiers	Work with the City to revise the current Green Building Ordinance and repeal PMC 17.50 in order to adopt Tier 1 CALGreen standards for new construction.
1097	Climate-smart transportation infrastructure	Leverage existing vulnerability assessments, such as the CalTrans Climate Change Vulnerability Assessment, or conduct future transportation vulnerability assessments to identify specific opportunities and invest in climate-resilient transportation infrastructure (e.g., elevating roads out of floodplain, heat-resistant asphalt when re-paving roads).
1154	Complementary business parking lots	Make it easier to locate businesses near each other to utilize shared parking lots/connections between parking lots
1086	Promote LEED Neighborhood Development	Promote use of LEED for Neighborhood Development (LEED ND). Mechanisms may include promoting development as an incentive for developers seeking better market appeal and municipal support, for municipal leaders looking to create tax and zoning incentives, or for community members trying to assess a new development.
1084	Vacant parcel development	Incorporate repurposing of vacant and underutilized parcels into affordable, high-density, and mixed-used development in the next General Plan update and/or East Pleasanton Specific Plan.

Action Number	Action Short Name	Action Description
1159	Shared parking ordinance	Adopt an ordinance that allows for businesses in all zoning districts to offset parking count needs if businesses have differing operational hours (e.g., daytime for business one and nighttime for business two).
1185	Promote walkability	Review and update land use and zoning policy to promote a more walkable built environment with close proximity to transit service. Consider requiring transit within ½ mile when density is 10-12 units/acre and viable transit when density is at least 4 units/acre
1186	Improve housing access	Work with local frontline communities and frontline housing organization partners to prevent displacement and increase access to housing and homeownership; achieve a jobs and housing balance.

### Strategy C. Advance vehicle decarbonization

Action Number	Action Short Name	Action Description
1056	Create an EV Infrastructure Plan	Develop an Electric Vehicle Infrastructure Plan that builds on the state EV infrastructure plan to promote and expand the construction of charging infrastructure and electric-powered mobility.
1059	Encourage gas stations to construct EV charging stations	Work with gas stations to install electric vehicle charging as space allows. (included w/in the EV Infrastructure Plan)
1116	EV-ready rental properties	Develop an Ordinance that requires existing and new rental properties to be EV-ready (e.g., pre-wiring, space for chargers) (included w/in the EV Infrastructure Plan).
1109	Install EV charging along ROWs	Develop regulations that would allow independent charging stations to be erected in the right-of-way or any zoning district or land use type (included w/in the EV Infrastructure Plan).
1072	Public/private EV partnerships	Develop a public/private partnership to expand publicly available Electric Vehicle infrastructure (included w/in the EV Infrastructure Plan).
1058	Develop an electric vehicle mandate for carsharing services	Work with regional jurisdictions to create a mandate that requires ridesharing/Uber/delivery services to be electric and expand infrastructure to support drivers in the transition.
1057	Electrification of municipal fleet	Adopt a policy requiring newly purchased City fleet vehicles to be electric vehicles or use alternative fuels.
1108	Heavy duty electric trucks	Partner with EBCE on regional efforts to transition heavy duty trucks to electric.

**PLEASANTON CAP 2.0**  
DRAFT STRATEGIES AND ACTIONS

Action Number	Action Short Name	Action Description
1111	Preferential parking for EVs	Provide preferential parking for electric vehicles downtown in City owned spaces.
1112	Private vehicle electrification	Identify grant funds to help convert private vehicles with zero emission vehicles, with a focus on supporting EV purchases for low-income demographics.
1060	Require low-carbon vehicles & equipment for construction projects	Require construction projects to comply with BAAQMD best management practices, including alternative-fueled vehicles and equipment.
1115	Small-engine electrification	Provide incentives to the community to purchase all-electric small-engine equipment (e.g., lawn mowers, leaf blowers). Continue to investigate opportunities to incorporate all-electric small equipment in large scale commercial projects.
1153	Switch to biodiesel	Replace conventional diesel with biodiesel at gas stations that offer diesel.
1187	Apartment & condo EV charging	Adopt an ordinance to require EV charging in new apartment buildings or condo complexes. This could be shared charging for the building or individual depending on the type of development.
1188	No new gas stations	Adopt an ordinance which prohibits the development of new gas stations.
1189	EV charging at municipal buildings	Install EV charging stations at parking lots in parks, library, senior centers, art center, and other existing municipal buildings.
1190	Municipal small-engine electrification	Require City operations to transition to all-electric landscaping equipment.
1191	Alternative payments for EV charging	Provide alternative financial models for EV charging, including sliding scales and an EBT card feature.
1192	Hydrogen fueling at gas stations	Work with gas stations to install hydrogen vehicle fueling as space allows.



## Materials & Consumption

### Strategy A. Increase waste diversion

Action Number	Action Short Name	Action Description
1040	Community Zero Waste goal	Adopt a City resolution to achieve zero waste (defined as 90% diversion) citywide by a target date.
1106	Comply with state waste ordinances	Comply with state solid waste ordinances, including AB1826, AB341, and SB1383.
1043	Food recovery program	Establish a robust food recovery program to reduce edible food waste, support community members, and protect against disruptions, including working with food rescue organizations and commercial kitchens. Conduct a baseline assessment of edible food waste and capacity analysis of existing organizations (as required by SB1383).
1162	Municipal Zero Waste goal	Adopt a City goal of zero waste (defined as 90% diversion) for government operations by 20XX.
1121	Promote StopWaste programs for businesses	Work with StopWaste to promote participation in waste reduction and reusable programs (e.g., StopWaste Use Reusables), for businesses to incorporate more sustainable waste practices.
1044	Reduce single-use packaging waste	Work with StopWaste to support the development of local infrastructure that enables greater adoption of reusables for dine-in restaurants and sustainable takeout foodware. This could include funding a Rethink Disposables program that reduces single-use disposables of foodservice ware at businesses.
1045	School and NGO funding and technical assistance	Partner with StopWaste and/or haulers to expand funding and technical assistance to non-profit organizations, schools and other entities to increase waste diversion.
1042	Special event waste diversion policy	Establish municipal ordinance requiring large and special events producers to require that all third-party vendors provide and utilize compostable and/or reusable food service items to serve 50 or more people, provide recycling and composting infrastructure, and plan and divert waste from landfill after the event.
1041	Zero waste plan	Develop a SB 1383 waste recovery implementation plan to work toward zero landfill emissions. Collaborate with regional partners like StopWaste, waste haulers, food recovery organizations, and neighboring cities to establish a regional approach to SB 1383 compliance.

**PLEASANTON CAP 2.0**  
DRAFT STRATEGIES AND ACTIONS

Action Number	Action Short Name	Action Description
1193	Recycling & composting outreach	Work with Pleasanton Garbage Service to improve education and outreach around recycling and composting.
1194	Single use plastic reduction	Continue to explore viable paths to reduce single use plastic, and/or viable and environmentally sound recycling, composting, or incineration of plastics.
1195	County composting facility	Work with the County and local jurisdictions to construct a composting facility in the County.

***Strategy B. Enhance sustainable consumption***

Action Number	Action Short Name	Action Description
1129	Carbon-smart building materials	As part of the Embodied Carbon Reduction Plan, partner with regional entities to encourage carbon-smart and recycled building materials (e.g., recycled steel, bamboo, hempcrete, cross laminated timber, biogenic materials) in new construction and renovations (e.g., educate architects, designers, and contractors).
1123	Circular economy education campaign	Educate residents and consumers on consumption-based emissions impacts and the circular economy.
1127	Collaborative consumption education and outreach campaign	Work with local and regional partners to conduct a public education and outreach campaign around local options for tool-lending libraries, car share, swap events, service websites, and exchange websites like Facebook's Buy Nothing groups. Explore potential for onsite community partnership programming to teach repair skills and promote local repair businesses
1126	Collaborative consumption projects	Support "collaborative consumption" community projects like tool libraries and repair cafes through mini-grant programs.
1125	Eco-industrial development	Work with regional partners to promote eco-industrial development in the area, in which a waste stream from one firm becomes the raw material for another, thus minimizing the use of raw materials.
1047	Environmentally preferable purchasing policy	Adopt an Environmentally Preferable Purchasing Policy. Include alternatives for the most carbon-intensive materials that the City purchases, such as building materials (concrete, metals, etc.).
1137	Job training for repairs	Support job training for repair of common tools and equipment.

**PLEASANTON CAP 2.0**  
DRAFT STRATEGIES AND ACTIONS

<b>Action Number</b>	<b>Action Short Name</b>	<b>Action Description</b>
1128	Locally produced food	Expand and encourage public community gardens, urban agriculture, and community supported agriculture (CSA).
1048	Low impact business development	Partner with existing businesses to develop materials and incentives to reduce their carbon footprint (e.g., transit subsidies, Environmentally Preferable Purchasing Program toolkits, and climate action grant programs).
1139	Low-carbon products	As part of the Embodied Carbon Reduction Plan, partner with StopWaste to promote products made with low-carbon attributes such as refurbished products, or those made with bio-based materials or recycled content, to producers and consumers.
1156	Municipal facility deconstruction	Lead by example: Deconstruct municipal facilities that would normally be demolished, and document as a case study to show how the environmental benefit contributes to sustainability goals and CAP 2.0.
1157	New construction designed for disassembly	Lead by example: Construct new municipal facilities using Designs for Disassembly, which is a suite of principles that allow building components to be extracted from buildings in a reusable form.
1161	Product lifecycle policy for Municipal projects	Adopt a City policy that requires a total cost of ownership and life-cycle analysis of greenhouse gas impacts in Municipal project requests for proposals.
1158	Recycled pavement	As part of the Embodied Carbon Reduction Plan, introduce a low carbon concrete ordinance to enable use of recycled pavement/waste streams, with specifications for residential and non-residential development applications.
1138	Repair industry	Support the repair industry through inclusion in economic development strategies and by using economic development tools to help them stay in the community and not be “pushed out” by more lucrative industries.
1155	Updated C&D debris ordinance	Review and update Ordinance 1992 (Construction & Demolition Debris) to further promote deconstruction and recycling.
1140	Whole building education campaign	As part of the Embodied Carbon Reduction Plan, develop and implement a campaign to educate developers and property managers about the benefits of whole building lifecycle analyses.
1142	Whole building policy	As part of the Embodied Carbon Reduction Plan, implement a policy requiring whole building lifecycle analysis for new construction and rezoning permits, with tiered incentives for achieving certain percent reductions in lifecycle carbon from the baseline analysis.
1141	Whole building resources	As part of the Embodied Carbon Reduction Plan, provide resources to developers and property managers to reduce lifecycle carbon in new and existing buildings.

**PLEASANTON CAP 2.0**  
DRAFT STRATEGIES AND ACTIONS

Action Number	Action Short Name	Action Description
1130	WIC & SNAP expansion	Expand ability to use Women, Infants, and Children (WIC) and Supplemental Nutrition Assistance Program (SNAP) benefits for Community Supported Agriculture (CSAs) and farmers markets.
1196	Advocate for recycling buyback centers	Conduct advocacy to state legislators about re-opening recycling buyback centers.
1197	Sustainable packaging education campaign	Educate residents and consumers on sustainable packaging techniques and methods to reduce consumption-related waste.
1198	Embodied carbon reduction plan	Develop an Embodied Carbon Reduction Plan to reduce the carbon content of materials. Include policy, incentive, ordinance, and outreach approaches.

## Water Resources

### *Strategy A. Improve stormwater resilience*

Action Number	Action Short Name	Action Description
1091	Green stormwater infrastructure	Incorporate green infrastructure and stormwater management with infrastructure projects to gain multiple benefits, including carbon sequestration and water infiltration.
1136	Green Stormwater Infrastructure Plan	Develop a Green Stormwater Infrastructure Plan to ensure a sustainable approach for managing stormwater runoff. The plan should include actions to replace traditional grey infrastructure with bioretention areas, green roofs, pervious pavement, and rainwater catchment.
1131	Green stormwater retrofits	Explore opportunities to retrofit or integrate green infrastructure into existing and new City facilities, which includes increasing pervious surfaces, establishing more green roofs, pursuing downspout or impervious cover disconnection, improving or creating bioretention areas, or creating "green lots". (included w/in Green Stormwater Infrastructure Plan)
1098	Stormwater infrastructure sizing	Ensure that future grey and green stormwater infrastructure and retrofits are adequately sized to be able to handle future flows and storms due to climate change.
1092	Stormwater runoff reuse	Investigate the feasibility of using stormwater runoff, if all water quality measures are in place, for irrigation and groundwater recharge.
1199	Require on-site stormwater management	Adopt an ordinance requiring new developments to have on-site stormwater management and minimal hardscape.

### *Strategy B. Improve water supply and conservation*

Action Number	Action Short Name	Action Description
1105	Adopt water-efficient landscaping ordinances	Adopt an ordinance requiring native/water-efficient landscaping on new development that exceeds state standards.
1094	Diversify water portfolio	Diversify water supply portfolio and expand current sources (e.g., purple pipe expansion and recycled water).
1200	Improve water quality & supply	Work with Zone 7 Water Agency to continue to monitor and address PFAS in water supply, and study water supply diversification.

**PLEASANTON CAP 2.0**  
DRAFT STRATEGIES AND ACTIONS

Action Number	Action Short Name	Action Description
1147	Drought-tolerant landscaping	Establish incentives/rebates for native and drought-tolerant residential and commercial landscaping and removal of grass turfs/lawns.
1133	Expand Water Conservation Program	Continue to promote City's Water Conservation Program.
1090	Rainwater harvesting	Increase rain harvesting program that provides equipment and education.
1134	Recycled water education	Educate residents and consumers on the use and benefits of recycled water.
1132	Smart water meter installation	Further expand installation of smart water meters.
1093	Urban water reuse	Encourage the increased use of recycled urban water in applicable sectors (e.g., irrigation). Includes consideration of stormwater runoff reuse (per #1092).
1135	Water efficiency education & training	Organize and/or sponsor educational workshops for contractors and landscapers to use the most water efficient fixtures and practices.
1087	Water fixture retrofits	Develop incentives and direct install programs to retrofit inefficient water fixtures in existing properties.

## Natural Ecosystems

### *Strategy A. Increase land carbon sequestration*

Action Number	Action Short Name	Action Description
1051	City-wide tree planting program	Implement a city-wide tree planting program, with a focus on shade trees. Ensure proper space considerations are given to support tree well and rooting volume.
1053	Improve organic nutrient management	Improve organic nutrient management by managing the amount, source, placement, and timing of plant nutrients and soil amendments. Replace synthetic nitrogen fertilizer with soil amendments such as manure or other organic by-products, such as compost and mulch, to increase drought- and flood-resistance of soil and carbon sequestration potential in parks and green spaces.
1050	Support carbon sequestration projects	Support projects that sequester carbon on private lands and properties through conservation, such as carbon farm planning and projects. Identify a sustainable funding mechanism to implement these projects.
1150	Tree canopy preservation	Reevaluate community tree regulations to protect existing canopy and to ensure trees are replanted with a "right sized tree" with sufficient tree well and/or rooting volume. Develop best practices for tree health and maintenance in conjunction with current policies and future policies and plans (e.g., Urban Forest Master Plan).
1201	Track carbon sequestration	As part of the GHG inventory process, develop carbon accounting system to track and measure the amount of carbon stored and/or sequestered in Pleasanton.

### *Strategy B. Improve ecosystem resilience*

Action Number	Action Short Name	Action Description
1052	Conserve native grassland	Conserve or restore native grassland, working with Living Arroyos and/or the Watershed Project.
1148	Ecosystem health on City property	Support Zone 7 to assess the health of natural systems and trees in parks and rights-of-way. Develop goals and restoration strategies to improve habitat quality, tree canopy cover, and provide sufficient soil rooting volume for trees.

**PLEASANTON CAP 2.0**  
DRAFT STRATEGIES AND ACTIONS

<b>Action Number</b>	<b>Action Short Name</b>	<b>Action Description</b>
<b>1146</b>	Habitat restoration for new development	Require private development to address habitat restoration issues onsite before development and explore options for enhanced requirements. This could include requiring new development to be visually compatible with the character of surrounding areas, and, where feasible, restore and enhance degraded areas adjacent to the property.
<b>1149</b>	Integrated Pest Management	Provide resources and clear policy for utilizing Integrated Pest Management (IPM) practices on City properties.
<b>1100</b>	Invasive species outreach	Partner with community programs and organizations, such as Living Arroyos, to identify, monitor, and remove invasive species and plants.
<b>1145</b>	Native plantings	Require native, drought-tolerant plantings in all future development projects.
<b>1099</b>	Restore and conserve riparian habitat	Identify, restore, and conserve riparian habitat, such as conserving woodland riparian habitat areas and habitat near canals and streams, to mitigate flooding risk and to improve water quality. Work with Living Arroyos and the Watershed Project where appropriate.
<b>1202</b>	Eliminate municipal fertilizer & pesticide use	Reduce and eliminate use of inorganic fertilizers and toxic pesticides and herbicides in the City.
<b>1203</b>	Expand creek conservation.	Expand creek conservation and advocacy programs through collaboration with Zone 7, Living Arroyos, and/or the Watershed Project.
<b>1204</b>	Community conservation programs	Develop a Parks and Recreation program dedicated to conservation and stewardship projects for different age groups.
<b>1205</b>	Increase littering fines	Increase fines for littering (e.g., dog litter) on trails, creeks, and parks.
<b>1206</b>	Construct wildlife crossings	Construct wildlife crossings around perimeters of City to allow local wildlife to cross roadways safely.
<b>1207</b>	Sustainable land management education	Encourage lawn conversion, rainwater harvesting, and improved home landscape design through education.
<b>1208</b>	Adopt new tree guidelines	Establish improved guidelines for City trees to ensure they priorities native, drought-tolerant, and carbon sequestering species.
<b>1209</b>	City-led restoration & conservation	Lead and manage proactive restoration and conservation efforts in any open spaces/creeks, working with Zone 7, Living Arroyos, and/or the Watershed Project.



**PLEASANTON CAP 2.0**  
DRAFT STRATEGIES AND ACTIONS

<b>Action Number</b>	<b>Action Short Name</b>	<b>Action Description</b>
1210	Restore & conserve rangeland habitat	Identify, restore, and conserve rangeland habitat, working with Living Arroyos and/or the Watershed Project as appropriate.

## Community Resilience & Wellbeing

### Strategy A. Improve community resilience

Action Number	Action Short Name	Action Description
1102	Access to green spaces	Partner with local organizations to increase awareness of and access to green spaces and outdoor recreation for all residents.
1035	Community cooling centers	Inventory, identify, and maintain adequate and accessible cooling centers for extreme heat. Work with the county to ensure sufficient notification systems are in place to notify residents of extreme heat events and available transportation routes to these cooling centers. Potential locations include schools, city buildings, other public buildings, and multi-purpose rooms. Since the need for cooling centers may overlap with wildfires, adequate air filtration systems are needed in the cooling centers.
1143	Community gardens	Partner with nonprofits, low-income communities, and underrepresented communities to expand urban agriculture opportunities in community gardens, schools, and parks and on rooftops.
1023	Comprehensive public/private outreach	Develop a comprehensive public/private education and empowerment program that helps residents, businesses, neighborhood leaders, and visitors take action to reduce their personal carbon footprint and improve climate literacy. Include a carbon footprint calculator that generates a list of actions to reduce emissions at the household level.
1038	Critical facility relocation	Identify and consider relocation opportunities for critical facilities that are exposed to future climate threats.
1037	Flood and flash storm emergency preparedness	Develop, adopt, practice, and regularly evaluate formal flood and flash storm emergency preparedness, response, evacuation, and recovery plans for flood-prone areas.
1036	Flood-resistant codes & design	Implement applicable building codes, such as the CA Building Code Section 1612 on FEMA Flood Insurance Requirements, to require flood-resistant design in flood-prone and flash-storm-prone areas, including minimum building elevation standards for new development.
1034	Health & emergency service preparation	Work with Alameda County to fund health and emergency services for the populations most vulnerable to climate change impacts in Pleasanton.
1095	Natural Hazards Insurance Outreach	Connect residents and businesses with information about natural hazards facing their properties and insurance options for mitigating risks (e.g., flood insurance, wildfire insurance, earthquake insurance).

**PLEASANTON CAP 2.0**  
DRAFT STRATEGIES AND ACTIONS

Action Number	Action Short Name	Action Description
1026	Neighborhood resilience hubs	Fund and support the development of community facilities to serve as neighborhood resilience hubs to support residents and coordinate resource distribution and services before/during/after natural hazards and extreme events. Resilience hubs are community-serving facilities that have been enhanced to support residents, coordinate communication, distribute resources, and reduce carbon pollution while enhancing quality of life. Potential locations include schools, city buildings, other public buildings, and multi-purpose rooms. Since the need for cooling centers may overlap with wildfires, adequate air filtration systems are needed in the cooling centers.
1025	School climate action planning	Partner with, such as providing funding and staff capacity, and support activities of the climate action groups at schools, including connecting them to resources from GoGreen, StopWaste, and CA Youth Energy Services.
1033	Update FEMA flood maps	Work with regional organizations, such as the Association of Bay Area Governments or Alameda County departments (e.g., Public Works), to utilize FEMA flood maps alongside climate impacts and projections, and to work with FEMA to update flood zone maps.
1096	Wildfires and wildland-urban interface awareness	Leverage existing outreach and education campaigns, such as CAL FIRE or Firewise, to increase awareness of residential homeowner actions to reduce and mitigate wildfire risk (e.g., create defensible space, reducing fuel loads, cleaning out rain gutters of leaves).

**Strategy B. Reduce vulnerability to climate change**

Action Number	Action Short Name	Action Description
1010	Reduce heat island effect	Modify municipal code to reduce heat island effects in the city beyond what is required by CALGreen. Options include requiring light-colored paving material for roads and parking areas, cool roofs for buildings, and shade trees for parking lots and pedestrian rights-of-way.
1152	Reduce landslide risk	Partner with Alameda County agencies (Community Development Agency, Flood Control and Water Conservation District) to utilize zoning and subdivision practices to limit development exposure in landslide risk areas while mitigating landslide risks through improving drainage, reconstructing retaining walls, installing netting and vegetation, avoiding clear cutting, and stabilizing soil with compost and mulch.

**PLEASANTON CAP 2.0**  
DRAFT STRATEGIES AND ACTIONS

Action Number	Action Short Name	Action Description
1028	Wildfire smoke outreach & education	Work with available organizations and resources such as the CA FireSafe Council to expand and improve targeted community messaging on how to respond to heat risks and poor air quality due to smoke.
1211	Install air quality monitors	Install air quality monitors at designated locations throughout City.
1212	Wildfire preparation	Work with regional partners to develop building codes and retrofit programs to increase resilience to wildfires.
1213	Wildfire prevention	Working with CalFire and other partners, identify and implement controlled burns and other means to reduce combustible biomass and improve early wildfire detection for the City.
1214	Flash storm prevention	Work with regional partners to develop implement programs and capital improvements to increase resilience to flash storms.

***Strategy C. Prepare City operations***

Action Number	Action Short Name	Action Description
1151	Update CAP checklist	Update CAP checklist to reflect CAP 2.0 and develop specific guidelines and requirements for its use, including reporting and evaluation mechanisms.
1103	Climate risk-based decision making	Develop and implement a risk-based design and prioritization methodology for new infrastructure projects that incorporates climate change, inherent uncertainties, timescales, economic lifecycle evaluations, project's annual impact, and other relevant criteria.
1032	Prioritize adaptation and resilience in capital projects	Prioritize adaptation and resilience in Capital Improvement Projects (CIPs). An option could include introducing guidance methodology for formally integrating future climate conditions (precipitation, temperature, sea level rise, wildfire) into the design review process for new infrastructure projects.
1214	Regional climate alignment	Host and organize collaboration events with organizations and cities in the region to align climate goals and measures.