



DATE: November 15, 2021

AGENDA ITEM #2

TO: Environmental Commission
FROM: CAAP Subcommittee
SUBJECT: Climate Action and Adaptation Plan

RECOMMENDATION:

Receive informational presentation on the Climate Action and Adaptation Plan

BACKGROUND

In 2013 the City of Los Altos adopted the Climate Action Plan in accordance with the State Assembly Bill 32 which required public agencies in California to implement measures to reduce greenhouse gas (GHG) emissions to year 1990 levels by 2020. Cities needed to adopt a plan to addresses carbon emissions and establish an implementation plan for programs and facilities. A Climate Action Plan (CAP) is the policy document that provides the framework to achieve those goals. Since the adoption of the 2013 CAP, two annual report updates were done in 2015 and 2016. The City Council continues to make the environment a priority and directed staff to update the CAP. In December 2020, the City entered into contract with EcoShift Consulting to prepare a Climate Action and Adaptation Plan (CAAP) for the City of Los Altos.

In January 2021, staff began working with the consultant and the Environmental Commission Subcommittee to develop the Los Altos CAAP. The following summarizes the scope of services.

Task I: Project Management: Consultant Project Team will develop a project management plan in conjunction with City staff. The consultant will use best practices in project management methodologies to ensure the project remains on-task and on schedule. **Task Deliverables** include Kick-Off meeting with City staff, ongoing Bi-Weekly conference call meetings with City staff, attendance at meetings and public hearings for the Environmental Commission and City Council, presentation materials and summaries for meetings and public hearings and Ad hoc communication.

Task II: Data Inventory, GHG Forecast and Vulnerability Assessment: Consultant Project Team will use ICLEI protocols for this project and ClearPath portal to conduct the inventories and forecasting. **Task Deliverables** include update of baseline GHG inventory workbooks, summary GHG Report detailing results of inventory and documenting any methodological changes, forecast municipal and community GHG emissions, update GHG emissions reduction targets, vulnerability Assessment assessing the threats of climate risks.



DATE: November 15, 2021

AGENDA ITEM #2

Task III: Review and Assess Relevant City Plans, Policies, Programs and Codes:

Consultant Project Team will conduct a review of current City measures, followed by a systematic process to compile the City's current, relevant goals, strategies, actions, tactics, and recommendations. **Task Deliverables** include collection of all relevant existing GHG reduction efforts, quantify efforts using agreed-upon emission factors, develop matrix detailing the City's current emissions reduction efforts, and explaining the relevance of existing policies to each other and to future CAAP measures, and policy framework matrix.

Task IV: Develop and Evaluate GHG Reduction and Climate Adaptation Measures:

Consultant Project Team's roadmap process will identify critical pathways to achieving the City's climate goals, help identify issues and barriers to each pathway, and recommend mitigation strategies to overcome barriers. **Task Deliverables** include list of proposed CAAP measures, summary of transportation scenarios and list of VMT and GHG reduction policies for possible inclusion in the CAAP, adaptation strategies, list of measures and actions to attain City goals, threat matrix detailing types and degree of threats from the effects of climate change and reporting template for reporting on adaptation measures.

Task V: Prepare Draft Climate Action and Adaptation Plan:

Consultant Project Team will deliver a comprehensive and robust CAAP that will be designed to be complementary to existing policies for reducing waste and energy use, reducing single occupancy- vehicle trips, and encourage healthy lifestyles. **Task Deliverables** include draft CAAP that includes Executive Summary summarizing report's purpose, methodology, findings, and recommendations, and materials for ongoing outreach and education.

Task VI: Finalize Climate Action and Adaptation Plan:

Consultant Project Team will compile all feedback from the draft CAAP review and integrate comments into the final CAAP document. **Task Deliverables** include finalized CAAP, meeting with City to discuss how input and comments were integrated into final CAAP, attendance at 3 public meetings (1 EC meeting and 2 CC meetings).

Task VII: CEQA Compliance: Consultant will prepare an Administrative Draft IS/MND with the following components:

- Project Description
- CEQA Environmental Checklist Form
- Mandatory Findings of Significance
- Contacts and Bibliography
- Mitigated Negative Declaration or Negative Declaration
- Notice of Determination

DISCUSSION

The Environmental Commission CAAP sub-committee members, Bruno Delagneau, Raashina Humayun and Don Weiden attend CAAP meetings and provide support and input with staff and the consultant to develop the CAAP.

The CAAP Study Session with the City Council was held on November 2, 2021 (presentation attachment A). The CAAP Subcommittee presented the Council with the development of the CAAP and proposed targets and actions.



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The City Council provided the following feedback:

- Need to clarify why we use 2005 instead of 1990. This was answered at the meeting but needs to be addressed in the final CAAP in details.
- How are GHG emissions calculated? Need to reference and explain the methodology in the plan.
- Carbon Emission Permit. There were several questions about that. It's important to clarify the objectives, how the funds are going to be used and also give a couple options or ideas how this could be implemented. Accounting for low-income population or seniors on fixed income.
- Need to clarify the goal of 10% of population in multi-housing. What does it mean? What is the % today? How does it compare to the required increase in low income and multi-family housing for Los Altos? The state mandate will have ~18% of Los Altos residents in low income and multi-family housing.
Does high-density housing lead to GHG reductions? TOD better?
- The 10-minute walk from transit is a good goal, but a state objective of 15-minute walk was mentioned. Need to clarify and address this in the plan.
- There were some questions about whether a goal of 100% electrical housing is reasonable considering that there are challenges meeting demands today. We need to understand those challenges and address them. Modeling expected demand increase and how this can be addressed.
How can we drive more electricity and is there comparable renewable energy? Are we going to limit the sizes of houses?
- Need to define carbon neutral. Consumption, plane travel is not accounted for. Is it captured somewhere else?
- Can we accomplish these goals with the limited budget and staff? Highlighting possible funding sources to alleviate direct costs to the city and making it clear how much staffing will be needed will be important.
- Incentives were deemed to be key. Identify areas where we can incentivize the proposed electrification switch and where the money will come from.
- There were some questions about recycling efficiency and the additional footprint of electrification such as solar panels. Clarification is needed specifically with regards to the 95% diversion rate goal (as some diverted materials will make their way back to the landfill).
- We need to take into account impact and aftermath of COVID-19 impact on the community and economy when we lay out a schedule and implementation timeline.
- What can the plan do to help residents become greener? Can we lay out specific things that can be done? Can we offer a couple "package" options?
- Need to have a priority order and specific actions that the city can/should take to keep things moving. Where do we need ordinances, incentives, rethink the permit system etc.



DATE: November 15, 2021

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- Monitoring will be key and we should lay it out in details in the plan. How often do we do it? What do we specifically look for, and monitor (should be as much as possible action specific at least for the most significant ones).
- Valley Water is responsible for flood control, so what is the City's role? How will the City support Valley Waters actions?
- We want to be successful with the targets.
- How are we going to achieve the goals with Los Altos limited budget and staffing?
- Recommends having a Priority Order explained or detailed in the CAAP.
- Annual updates and accessing the progress is necessary. Plan should include a timeline with different check-in points.
- What were the lessons learned from the 2013 CAP? What actions had the greatest impact?
- Nothing for fire risk?

Attachments:

- A. City Council CAAP Study Session Presentation
- B. CAAP Environmental Commission Presentation
- C. CAAP Goal Summary

Climate Action and Adaptation Plan Study Session

November 2, 2021



Environmental Commission Subcommittee:

- Bruno Delagneau
- Raashina Humayun
- Don Weiden

EcoShift Consulting:

- Ben Fordham
- Zach Youngerman
- Kristin Cushman

CAAP Leads:

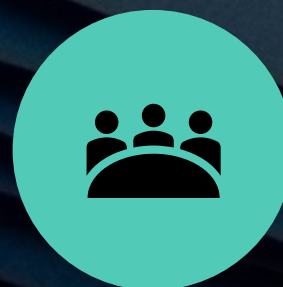
- Departments
- Commission Reps

Stakeholders

Community Engagement



Two Public Surveys



Public Workshop



Focus Groups



Monthly Updates



52.2%

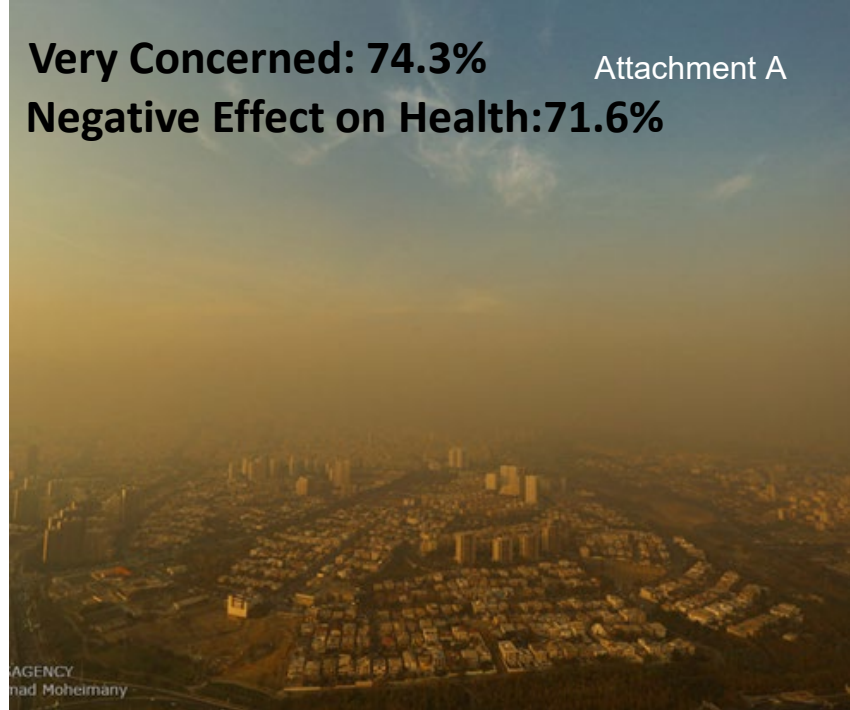


Action Needed: 67.3%

Engaged and Informed: 76.1%



27.7%



Very Concerned: 74.3%

Attachment A

Negative Effect on Health: 71.6%

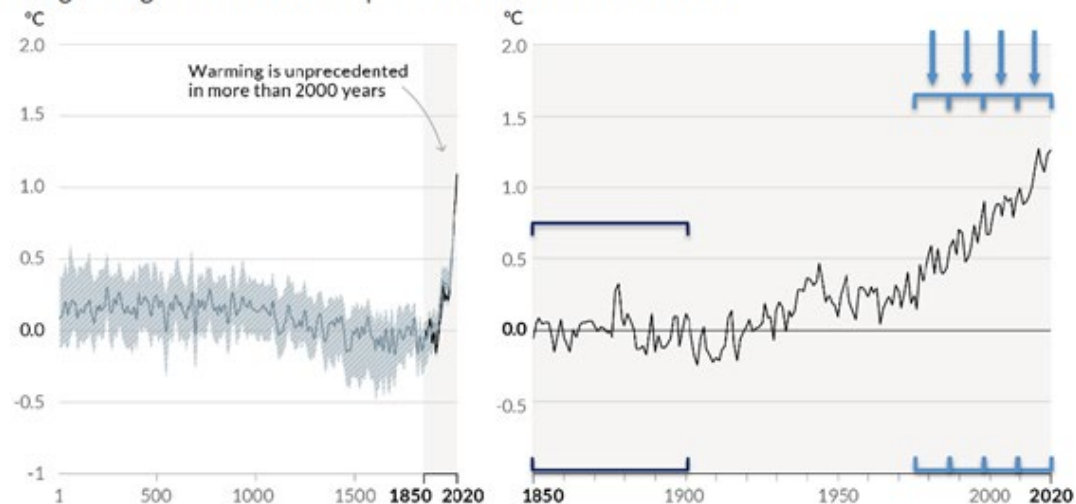


54%

Urgent Action Needed

Human influence has warmed the climate at a rate that is unprecedented in at least the last 2000 years

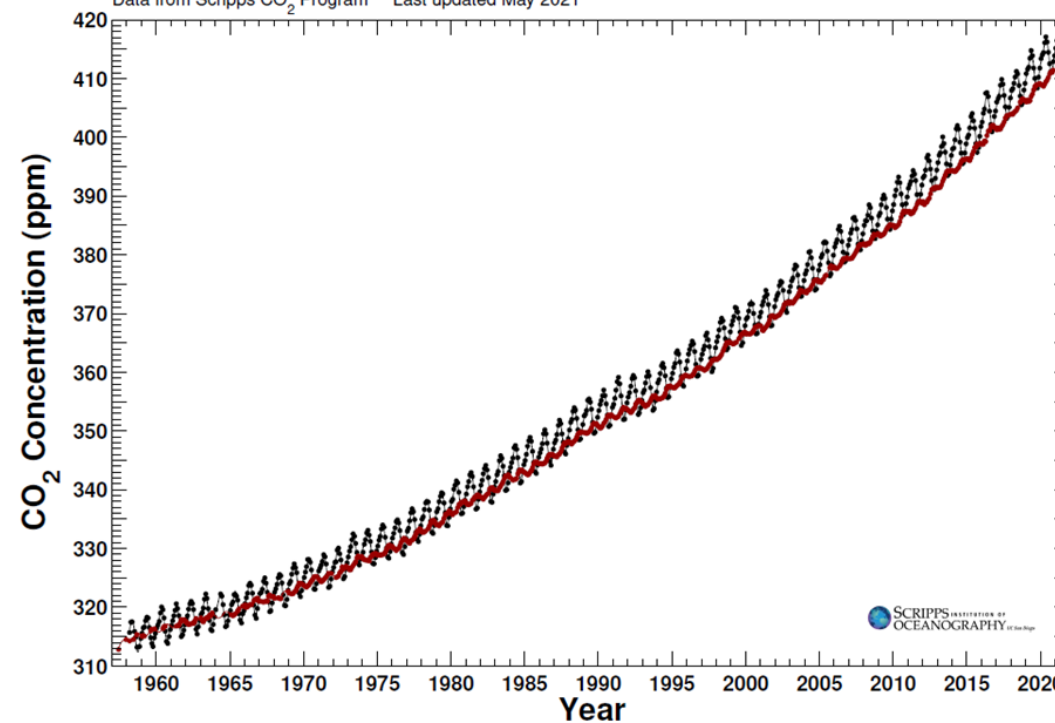
Changes in global surface temperature relative to 1850-1900



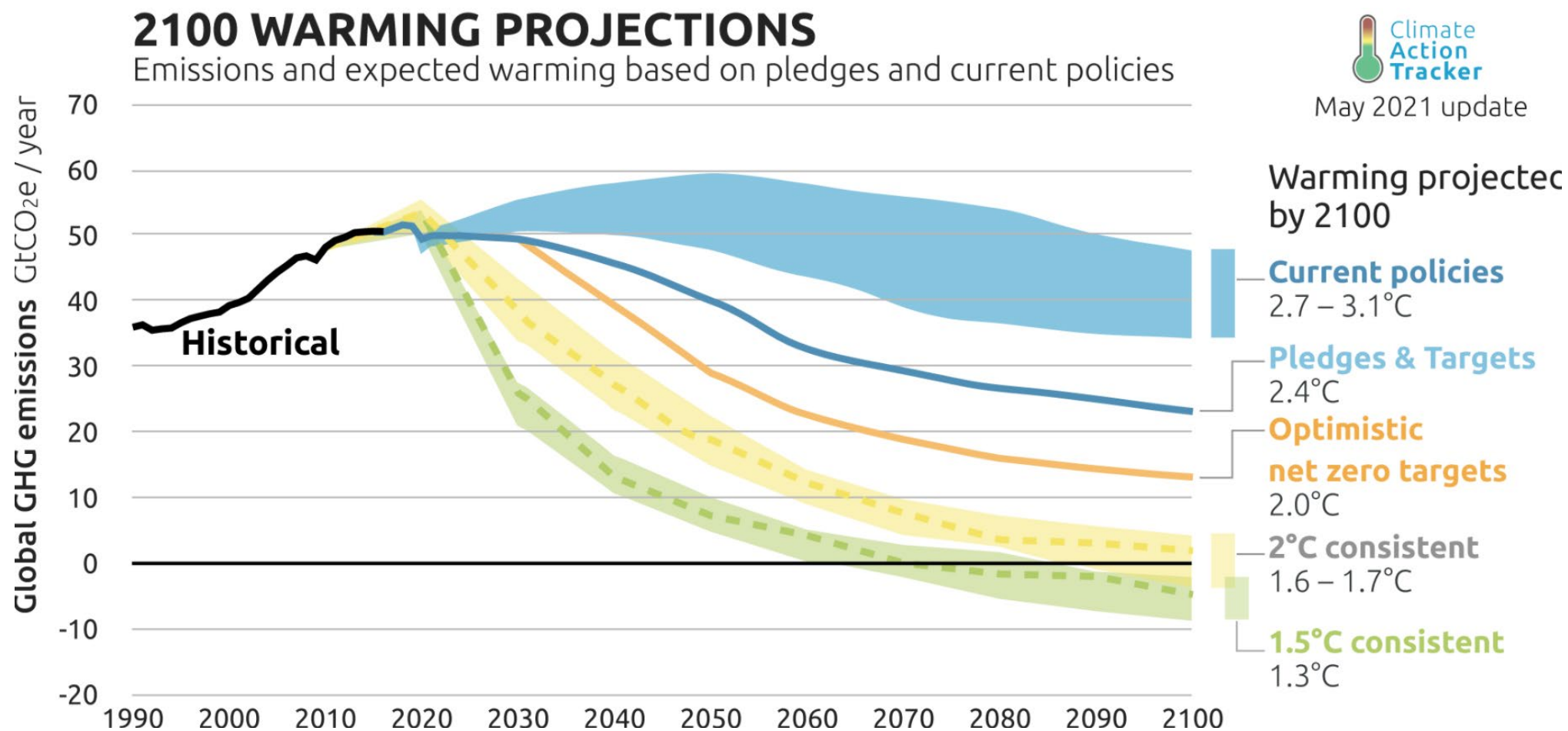
IPCC 2021

Mauna Loa Observatory, Hawaii and South Pole, Antarctica
Monthly Average Carbon Dioxide Concentration

Data from Scripps CO₂ Program Last updated May 2021



Urgent Action Needed



Vision:

“To place Los Altos on an accelerated, sustainable path to carbon neutrality by advancing bold and effective climate policies.”

Mission:

“The mission of our Climate Action and Adaptation Plan is to preserve the unique character of Los Altos and enhance its natural environment, while improving the quality of life and health of its people by supporting transformative change in the areas of climate, resilience and equity.”

CAP 2013 Progress

Los Altos Climate Action Plan (CAP)

- 2013 CAP was adopted
- 2005 Baseline year for GHG Emissions (182,830 MTCO₂e)
- Goal was to achieve a 15% reduction in emissions by 2020 (155,410 MTCO₂e)
- ~44 Measures included in the areas of:

Transportation

Energy

Resource
Conservation

Green
Community

Municipal
Operations

CAP 2013 Progress

Emissions Comparison Table

Community	2005 emissions	2018 emissions	% change	Emissions reduction (MTCO ₂ e)
Transportation & Mobile Sources	96,610	71,531	-26%	25,079
Solid Waste	3,950	2,653	-33%	1,297
Water & Wastewater	2,250	1,063	-53%	1,187
Commercial Energy	20,070	7,535	-62%	12,535
Residential Energy	59,950	35,661	-41%	24,289
Community total	182,830	118,443	-35%	64,387
Total	182,830	118,443	-35%	64,387
<i>2020 target</i>		155,410	-15%	

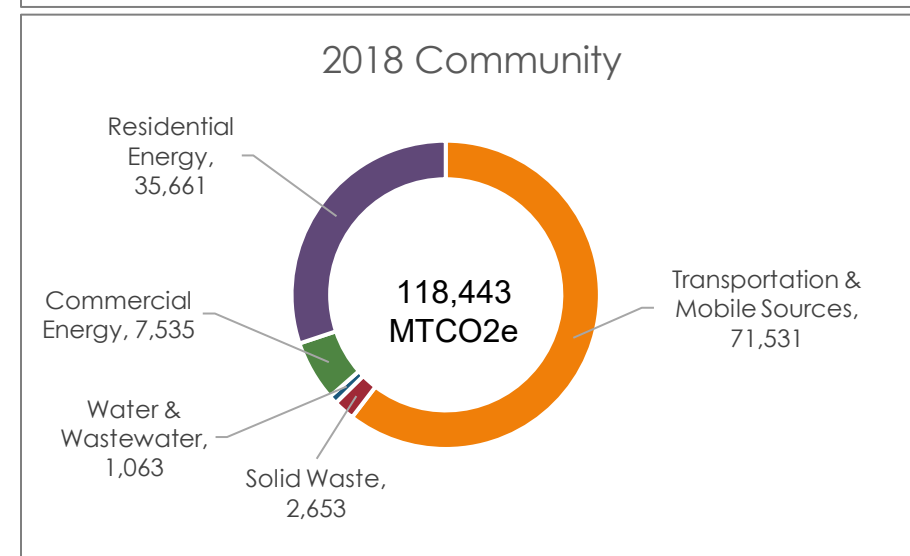
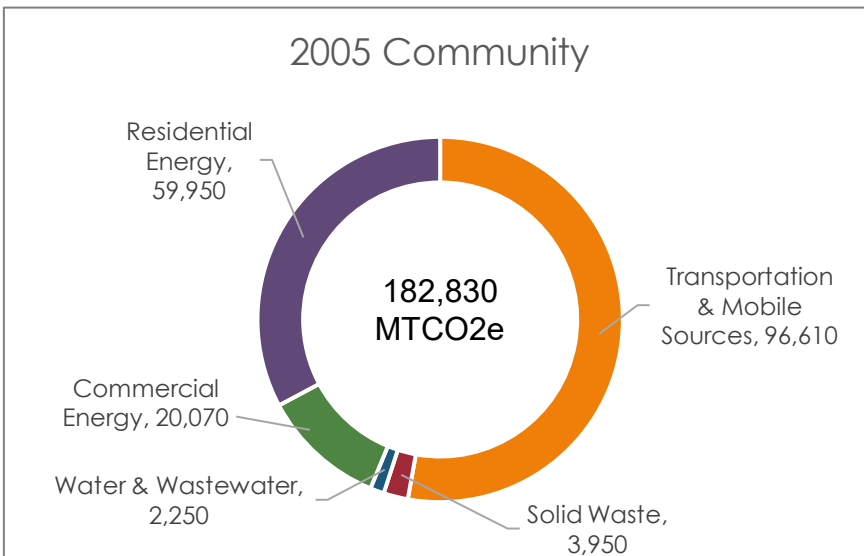
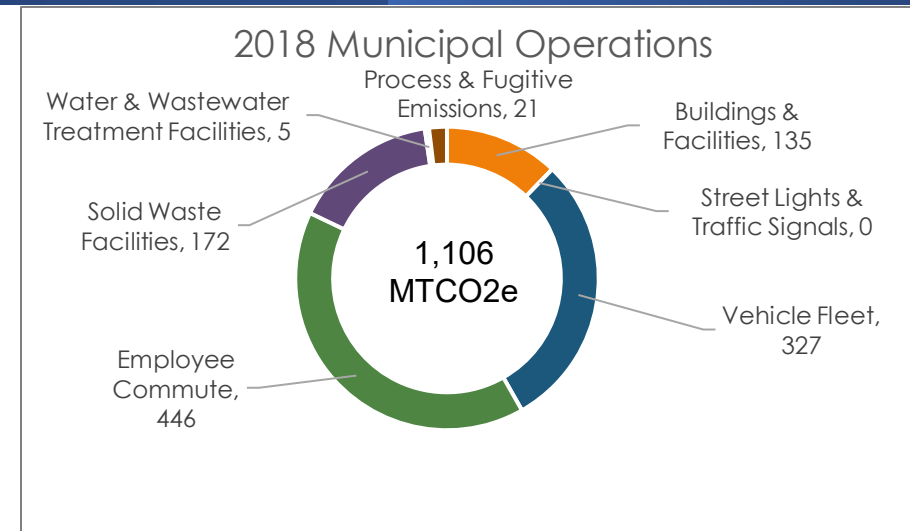
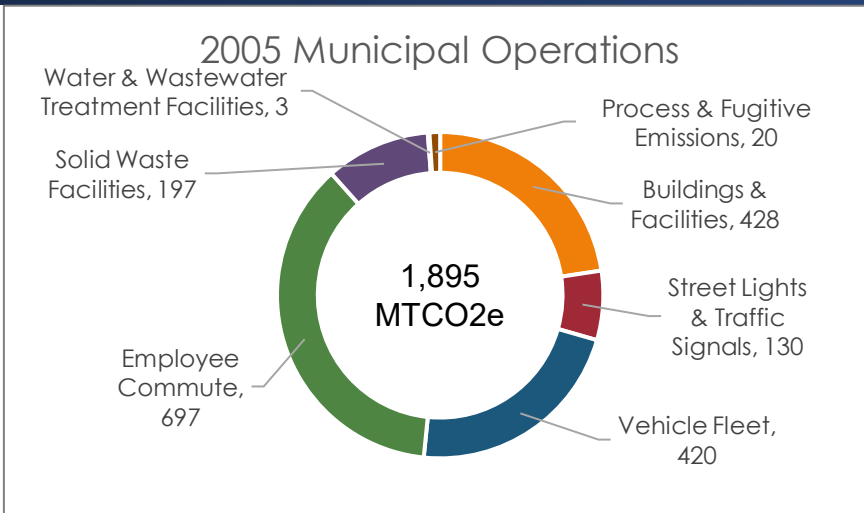
CAP 2013 Progress

Emissions Comparison table

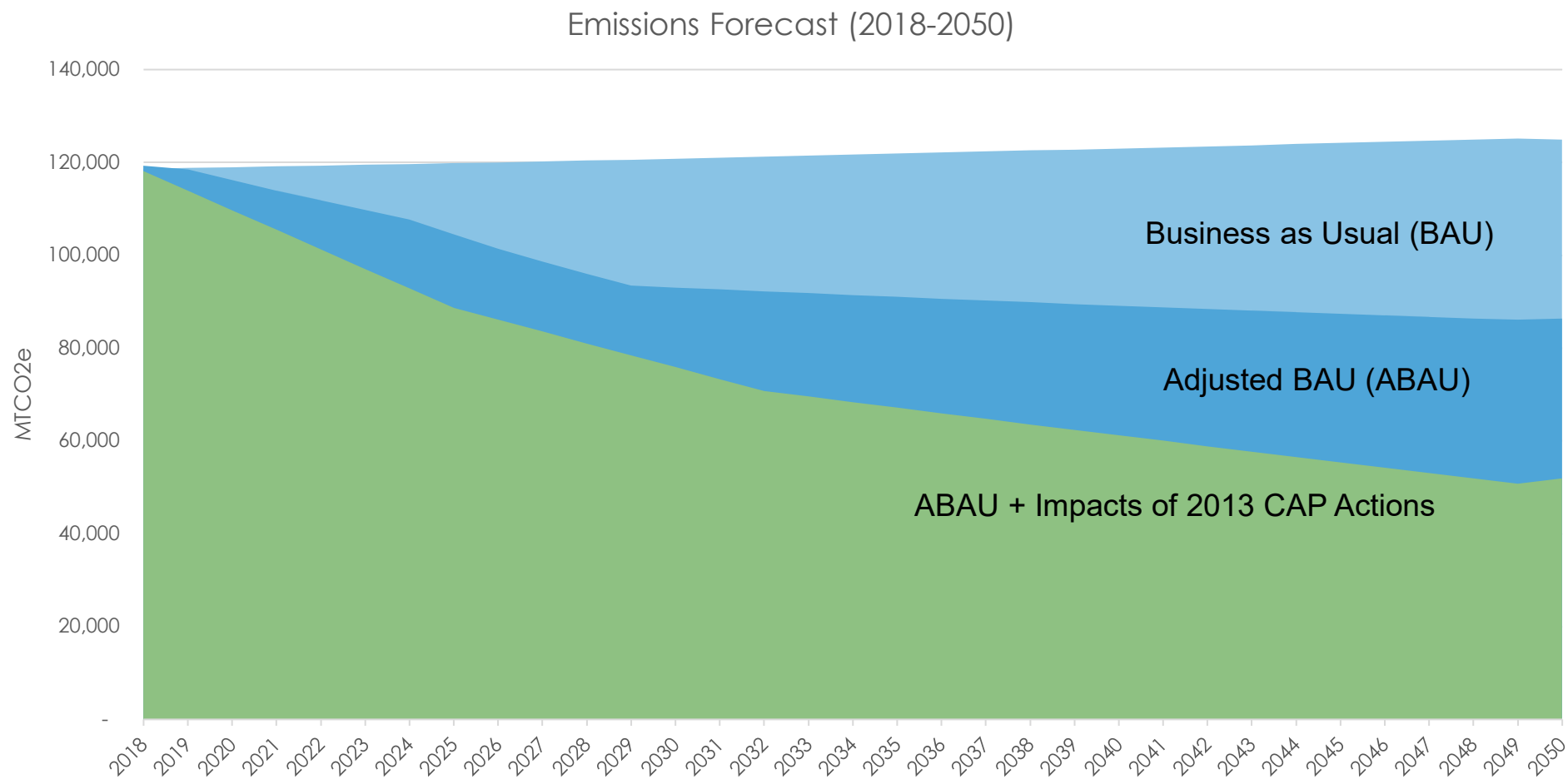
Municipal Operations	2005 emissions	2018 emissions	% change	Emissions reduction (MTCO ₂ e)
Buildings & Facilities	428	135	-68%	293
Street Lights & Traffic Signals	130	<1	100%	130
Vehicle Fleet	420	327	-22%	93
Employee Commute	697	446	-36%	251
Solid Waste Facilities	197	172	-13%	25
Water & Wastewater Treatment Facilities	3	5	67%	(2)
Process & Fugitive Emissions	20	21	5%	(1)
Government total	1,895	1,106	-42%	789
Community (Includes Municipal Operations)	2005 emissions	2018 emissions	% change	Emissions reduction (MTCO ₂ e)
Transportation & Mobile Sources	96,610	71,531	-26%	25,079
Solid Waste	3,950	2,653	-33%	1,297
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<i>2020 target</i>		<i>155,410</i>	<i>-15%</i>	

GHG Emissions

60% from Trans -- 96% from Trans + Res Energy+ Com Energy



Projections: CAP 2013 will have limited future action



Local and International Targets

	Entity	Year	1st Target	
International, National and State targets	U.S. NDC ¹	2021	50-52% below 2005 levels by 2030	
	IPCC/U.S.	2020	net zero by 2050 at the latest	
	Executive Order B-55-18 ²	2018	carbon neutral by 2045	
	Senate Bill 32 (2016)	2016	40% below 1990 levels by 2030	
Local Targets	Menlo Park	2020	Zero Carbon by 2030	
	Sunnyvale	2019	56% below 1990 levels by 2030	
	Belmont	2017	50% below 2005 levels by 2035	
	Los Altos Hills	2016	30% below 2005 levels by 2025	
	Palo Alto	2016	80% below 1990 levels by 2030	
	Mountain View			26% below 2005 levels by 2025
				37% below 2005 levels by 2030 48% below 2005 levels by 2035
	San Carlos	2021	40% below 1990 levels by 2030	

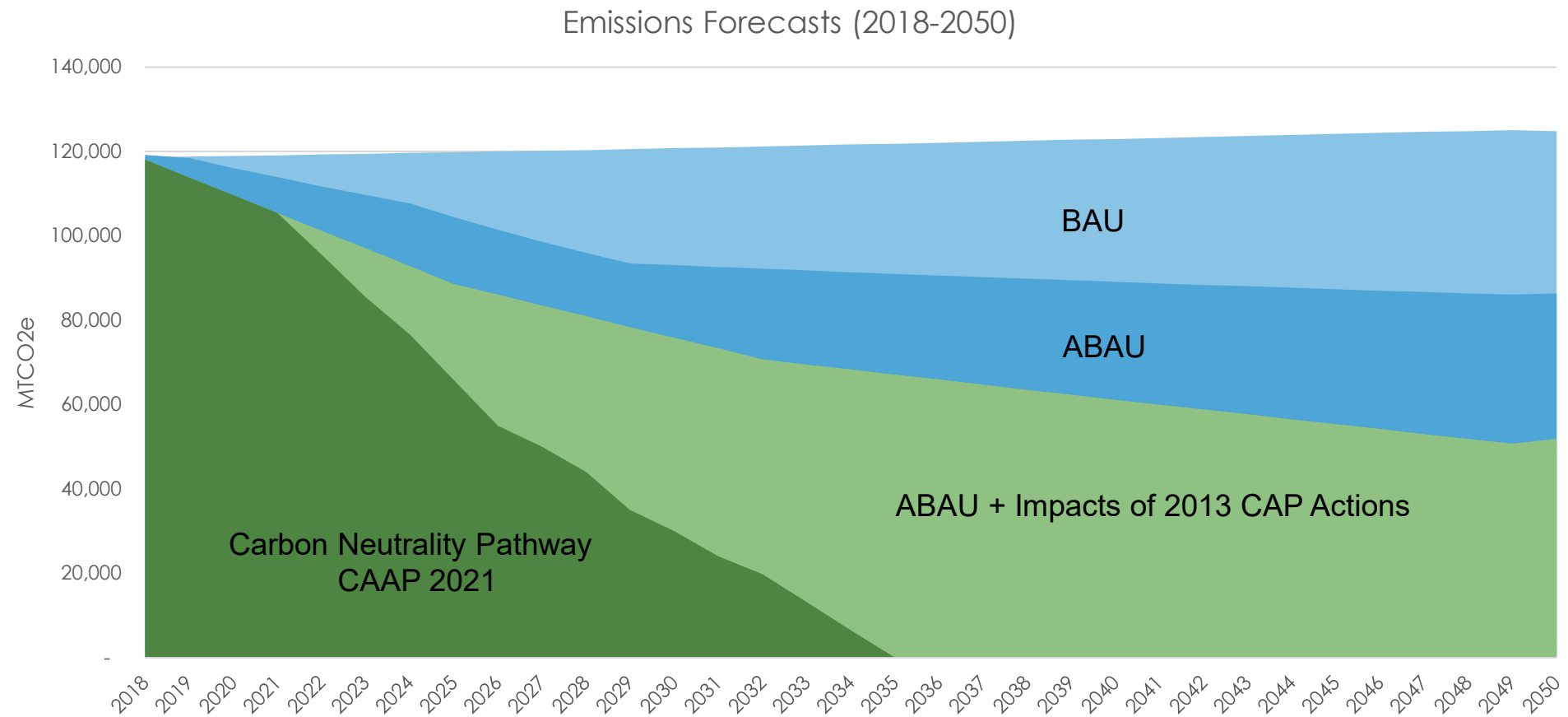
¹Nationally Determined Contribution

²Non-binding target



Our Goal: Achieving an 85% reduction of GHG Emissions from 2005 levels by 2030 and Carbon Neutrality by 2035

Projections: Carbon Neutrality Pathway

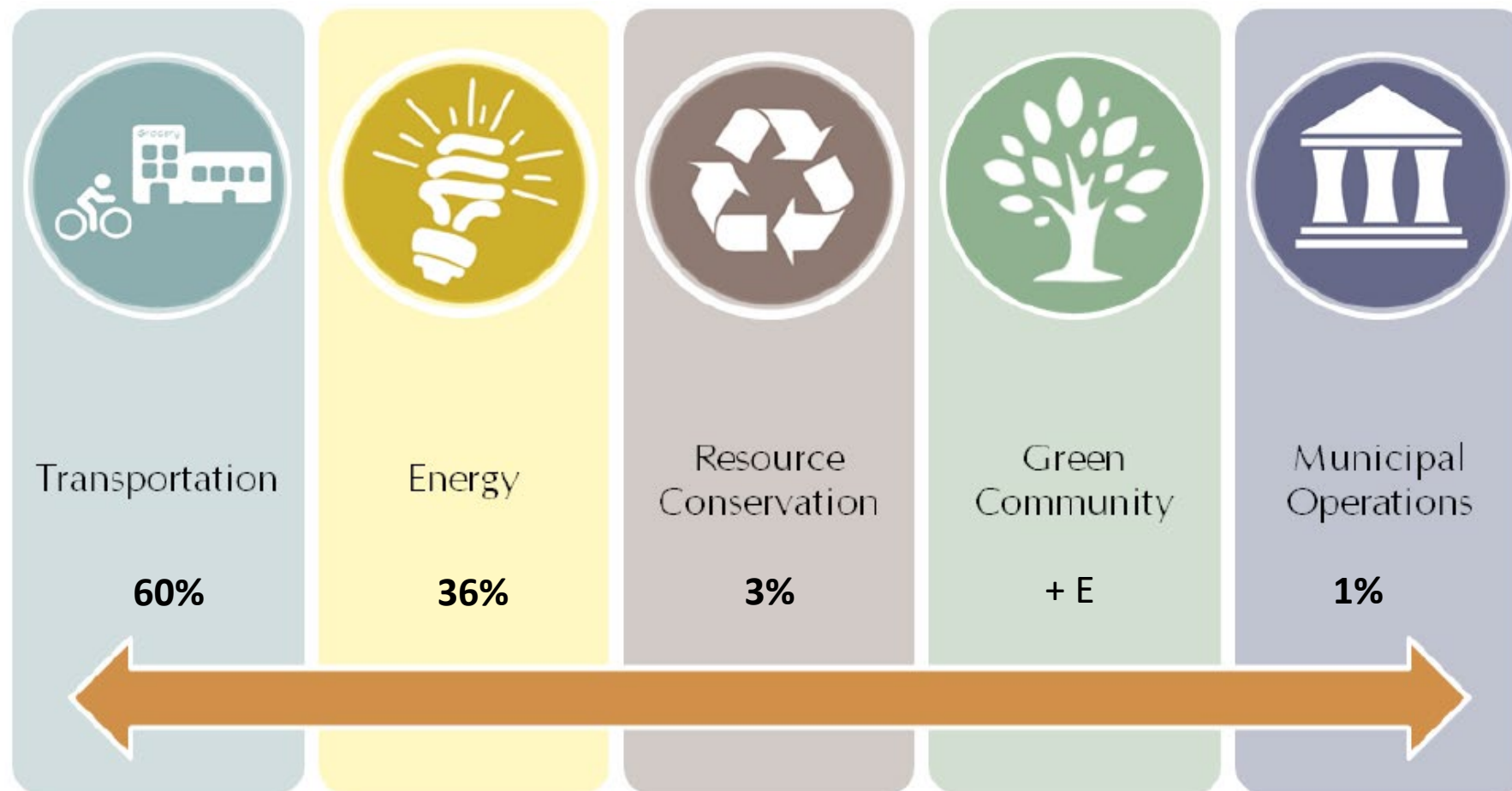


Update 2021 CAAP



Climate Action and Adaptation Plan

Mitigation Sectors and GHG Emissions



Transportation

Strategy 1: Reduce Single-Occupancy Vehicle Travel

Goal 1: Create a Walkable and Bikeable City (38 miles of bike lanes and 10 miles of pedestrian paths built)

- Fully Implement the 2021 Complete Streets Master Plan by 2035 (\$\$\$, RRR)
- Create pedestrian-friendly downtown and commercial areas (\$\$\$, RR)
- Develop a new Parking Management Strategy promoting VMT reduction (\$, RR)

Goal 2: Promote Smart Growth Strategies (10% of population in high density housing)

- Prioritize Transit-Oriented Development (\$, RRR)
- Develop work from home policies and incentives (\$, RRR)

Goal 3: Create Shared Mobility Network (100% of population within 10-minute walk of transit)

- Develop an electric shuttle service and an ebike/escooter program (\$\$\$, RR)
- Expand clean transit service (\$, RR)



Transportation

Strategy 2: Electrify Transportation

Goal 1: Accelerate EV Adoption (60% EVs by 2035)

- Increase awareness of EV resources & incentive programs (\$, RR)
- Actively promote EVs adoption and require dedicated EV parking (\$, RR)

Goal 2: Install Community-Wide EV Supply Equipment (1-mile target for DCFC, 1 level 2 charger/2 cars)

- Increase Level 2 EV charging stations in commercial and multifamily areas (\$, RR)
- Create a network of DC Fast Charging stations (\$\$, R)
- Double the current EV charging and pre-wiring requirements via Reach Code updates (\$, R)



Energy

Strategy 1: Reduce Energy Consumption

Goal: Fund Energy Efficiency Incentive Programs (Energy audits and home upgrades per year)

- Perform residential and commercial energy audits (\$\$)
- Increase residential and commercial energy efficiency (\$\$, RR)

Strategy 2: Increase Solar Energy and Battery Storage

Goal: Adoption of Net Zero Buildings requirements (All new buildings net zero as of 2030)

- Strengthen community solar requirements (\$,R)
- Establish community energy storage requirements (new buildings) (R)



Energy

Strategy 3: Facilitate Building Decarbonization

Goal 1: Require All-Electric New Buildings and Major Retrofits (150/year)

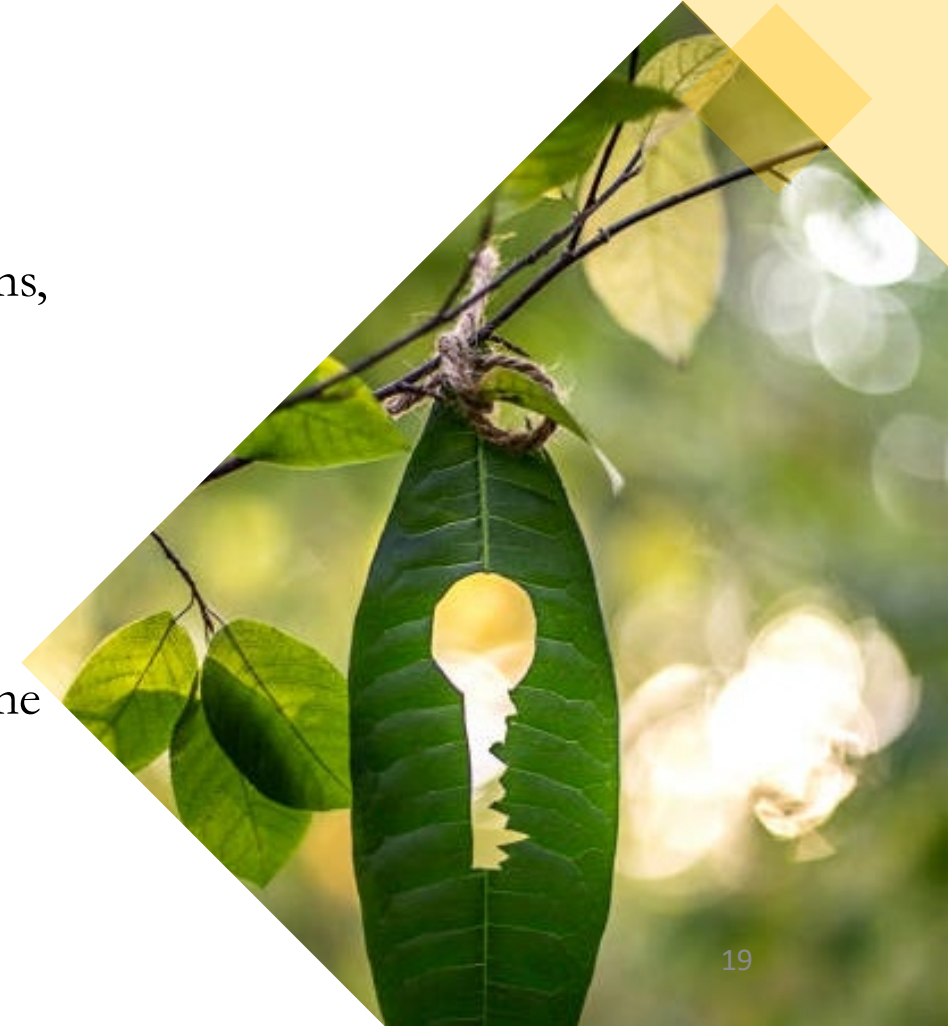
- Adopt bold Reach Codes expanded to include large additions, ADUs and major remodels (\$, RR)

Goal 2: Increase Fuel Switching in Existing Buildings (470/year)

- Accelerate residential fuel switching (\$, RR)
- Accelerate commercial fuel switching (\$, RR)

Goal 3: Disincentivize methane gas (Supportive)

- Implement a Carbon Emission Permit for the use of methane gas



Resource Conservation

Strategy 1: Reduce Consumption and Waste

Goal 1: Continue to Decrease Waste (95% landfill diversion rate by 2035)

- Increase the landfill diversion rate (R)
- Adopt new ordinance to eliminate single-use plastics (\$, R)
- Reduce waste from construction and building materials (R)

Goal 2: Promote a Circular Economy (Supportive)

- Promote sustainable food choices (\$, R)
- Increase knowledge of responsible goods & services consumption (\$, R)

Attachment A



Municipal Operations

Strategy 1: Operate Sustainable Municipal Buildings

Goal 1: Increase Building Efficiency (30% reduction by 2035)

- Audit appropriate City facilities and conduct comprehensive energy efficiency upgrades (\$, R)

Goal 2: Develop Solar + Storage at City Facilities

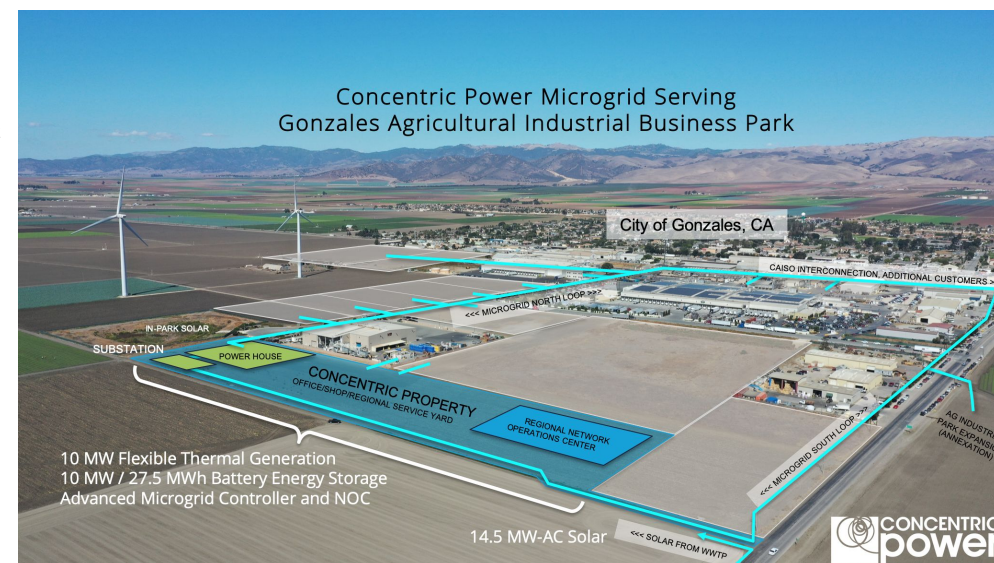
- Build new City buildings to Net Zero standards (\$, R)
- Retrofit existing buildings to add solar power and battery storage (\$\$, R)
- Build a microgrid for all city facilities and emergency buildings (\$\$, R)

Strategy 2: Reduce Municipal Vehicle Miles Traveled

Goal 1: Convert 100% City's Fleet to Electric Vehicles by 2030

- Develop a phase-out schedule to replace all City-owned fleet vehicles with electric versions (\$, RR)

Goal 2: Develop guidelines for sustainable employee commute/business travel by 12/2022 (\$, R)



CAAP

Cross Cutting Actions & Adaptation

CROSS CUTTING ACTIONS

- Municipal Operations
- Building a Green Community

ADAPTATION

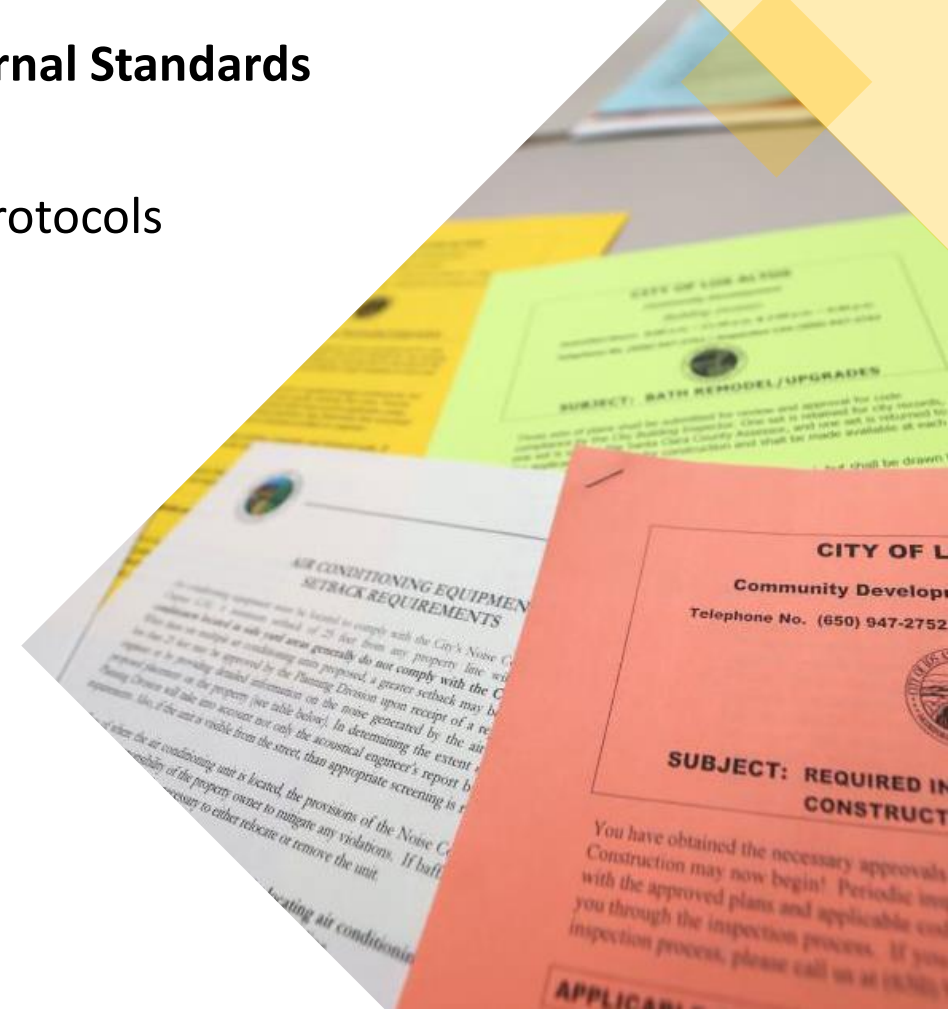
- Reducing Climate Risk
- Emergency Preparedness
- Towards a Resilient Community

Cross Cutting Actions - Municipal Operations

Integrate Climate Action and Adaptations in City Functions

Goal: Incorporate CAAP into city policy, budget planning & Internal Standards

- Account for climate change in all new city projects
- Incorporate climate preparedness into City programs & protocols
- Integrate CAAP goals into budget process



Cross Cutting Actions - Green Community

Strategy: Develop Nature Based Solutions

Goal 1: Expand green infrastructure and improve water resilience

- Develop citywide green infrastructure plan
- Create water efficient buildings and landscapes
- Implement water recycling and natural water harvesting systems

Goal 2: Expand natural environments and carbon sequestration

- Develop citywide natural environment plan
- Increase urban tree canopy
- Expand and enhance green wilderness, natural habitat and park area
- Pilot carbon farming strategies

Adaptation - Climate Risk

Understand and Reduce Physical Risk

Goal 1: Reduce Flood Risk

- Reduce stormwater runoff
- Manage flood plains
- Restore riparian ecosystems

Goal 2: Reduce Heat Risk

- Enact reflectivity/green standards for roofs and ground level surfaces
- Promote alternative building cooling strategies like shade trees & awnings



Adaptation – Emergency Management

Strategy: Integrate Adaptation into Emergency Preparedness & Response

Goal 1: Ensure Safety during extreme heat

- Develop heat alert system and heat management plan
- Implement heat safety protocols for outdoor work
- Expand public drinking water stations

Goal 2: Ensure safety during unhealthy air events

- Develop early warning system for air quality
- Distribute masks and filters to vulnerable populations



EXTREME
HEAT
ALERT

Adaptation - Resilient Community

Strategy: Educate and Protect Residents

Goal 1: Establish Resilience Hubs (10% population capacity)

- Upgrade existing buildings
- Construct new facilities where needed

Goal 2: Protect vulnerable community members

- Identify and protect vulnerable populations
- Engage and train caregivers

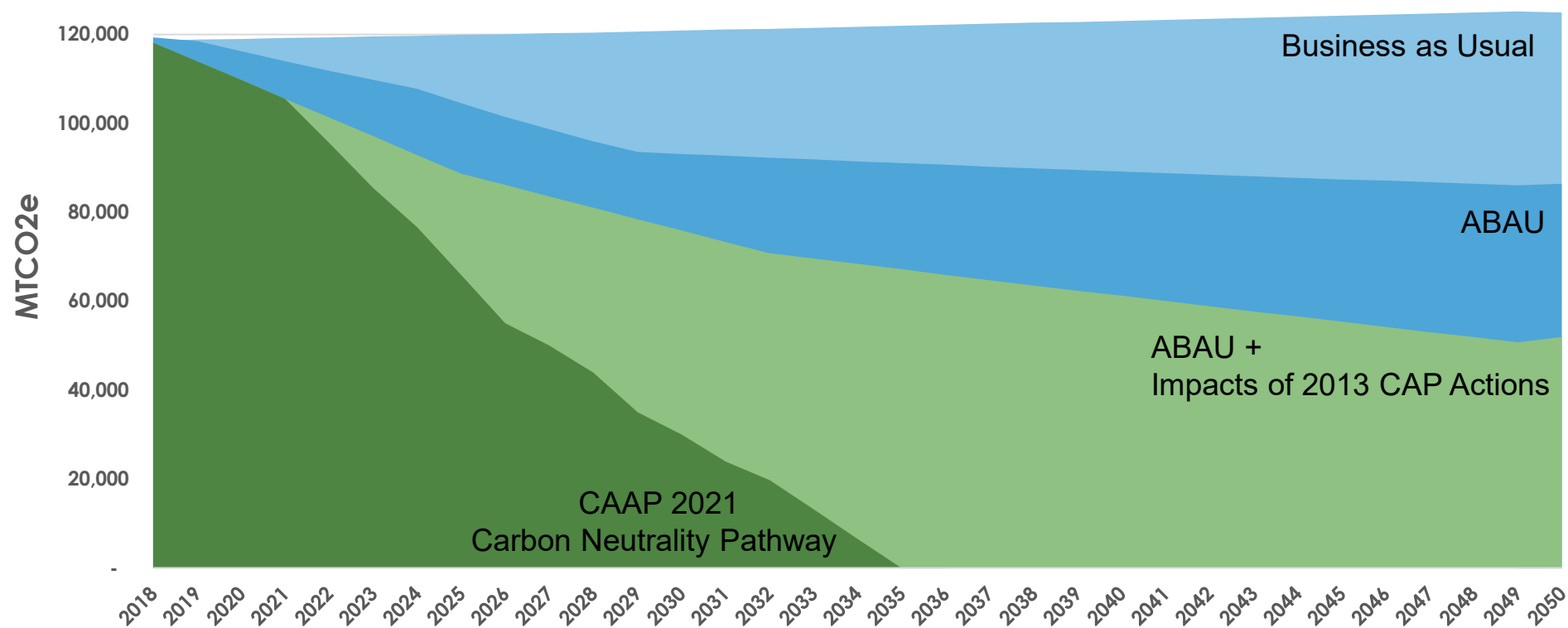
Goal 3: Improve Climate Literacy & Risk Understanding

- Update CERT to include growing climate hazards
- Launch a Community Climate Action Grant



Los Altos CAAP – 2021

85% reduction from 2005 levels by 2030
Carbon Neutrality by 2035



CITY COUNCIL PRIORITIES FY 2021-2023: The City of Los Altos will be a leader on environmental sustainability through education, and adopting and embracing policies, initiatives, and practices that advance this effort.

Thank You

Climate Action and Adaptation Plan Environmental Commission

November 15, 2021

Environmental Commission Subcommittee:

- **Bruno Delagneau**
- **Raashina Humayun**
- **Don Weiden**



Schedule

Tentative Timeline

- November 30: Draft Plan available for review
- December 13: Environmental Commission - 2nd Meeting Presentation
- January 25: City Council 1st Meeting
- February/March: City Council 2nd Meeting



52.2%

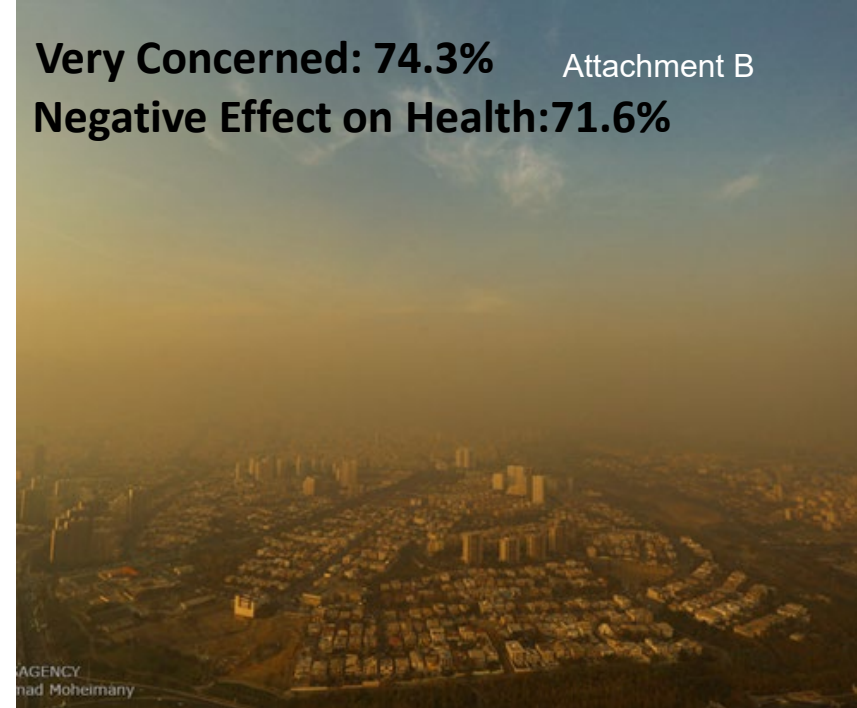


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Engaged and Informed: 76.1%



27.7%



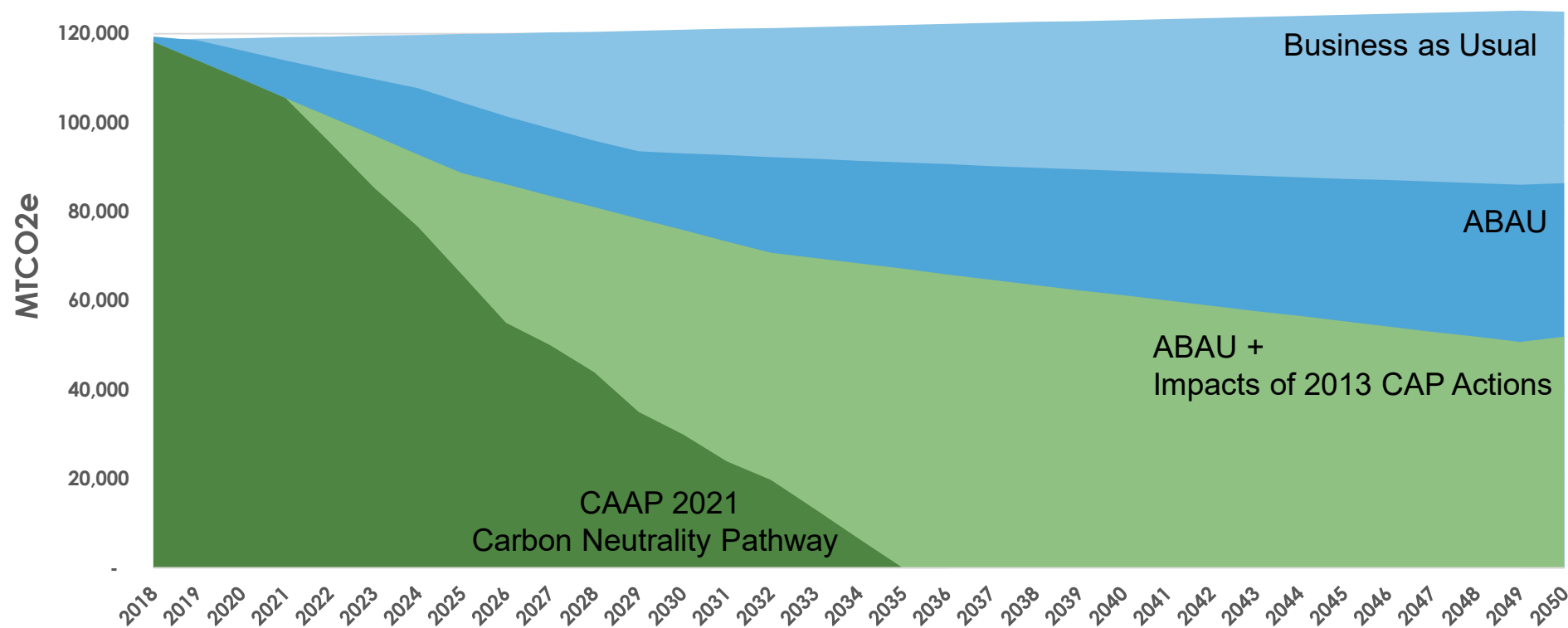
Very Concerned: 74.3% Attachment B
Negative Effect on Health: 71.6%



54%

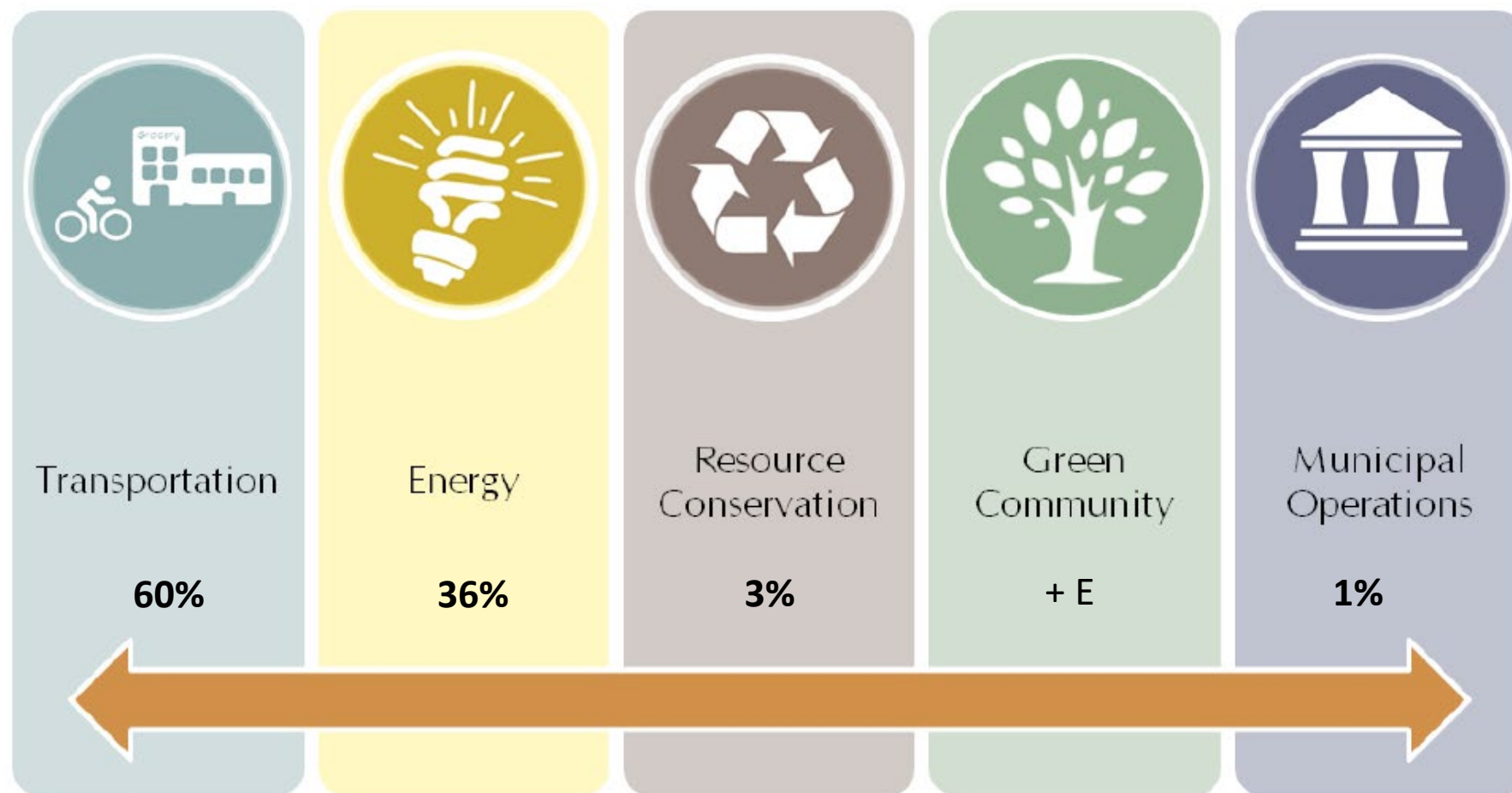
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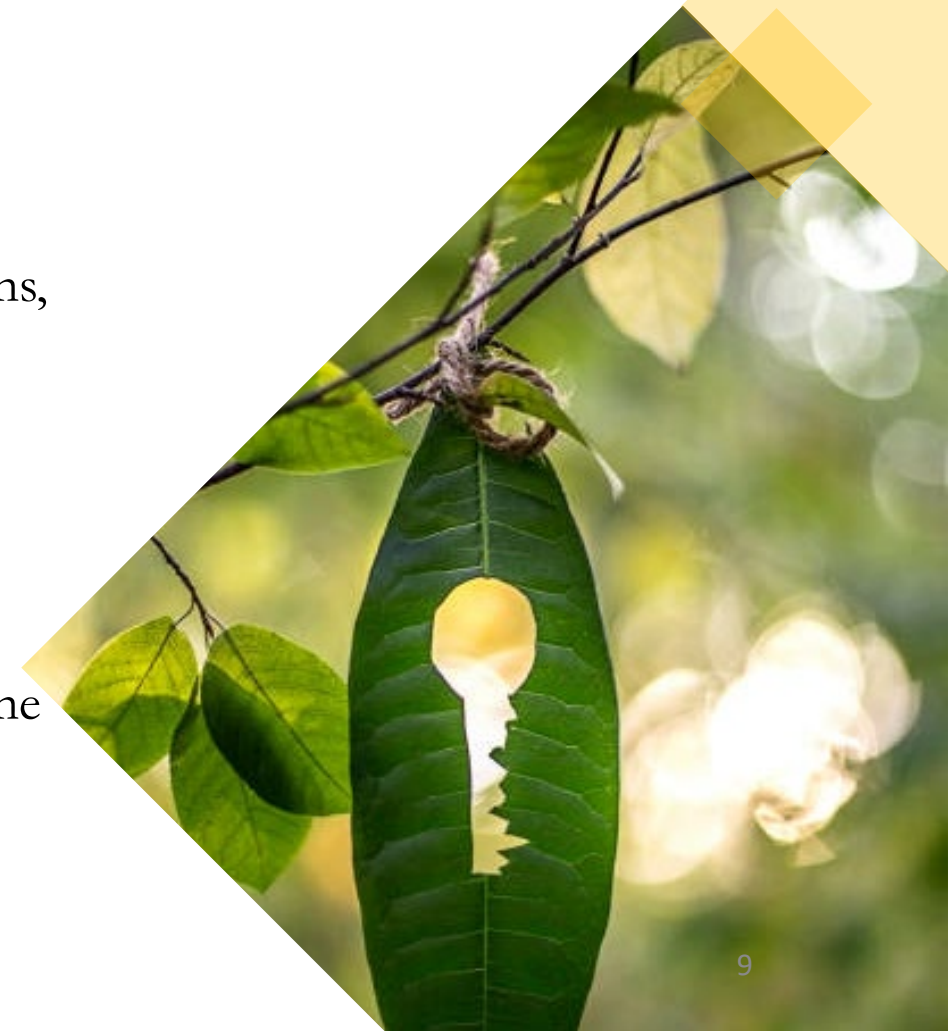
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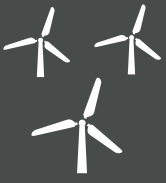
City Council Study Session Feedback

- Need to clarify why we use 2005 instead of 1990.
- How are GHG emissions calculated?
- Several questions about Carbon Emissions Permit.
- Need to clarify the goal of 10% of population in multi-housing considering current state targets.
- Clarify goal of 10-minute walk to transit versus 15-minute city goal.
- Questions about whether a goal of 100% electrical housing is reasonable considering that there are challenges meeting electricity demand today.
- Need to define carbon neutrality.
- Can we accomplish these goals with Los Altos limited budget?
 - Highlight areas of funding.
- Can we recycle and what happens to new electrification hardware such as solar panels, batteries?

City Council Study Session Feedback

- Need to take into account COVID-19 impacts.
- How can we help residents become greener? Can the plan propose specific actions that can be taken by residents?
- Need to have a priority order.
- Monitoring will be key, and we should lay out details in the plan.
- What is the city's role with flood control?
- Some concerns whether the targets can be achieved (limited budget and staffing).
- Include annual updates and specific timelines.
- Lessons learned from 2013 CAP.

Thank You



LOS ALTOS

CLIMATE ACTION AND ADAPTATION PLAN

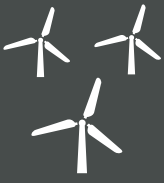
2021

CAAP GOALS

**ACHIEVE AN 85% REDUCTION IN
GREENHOUSE GAS EMISSIONS BY 2030,
AND CARBON NEUTRALITY BY 2035**

Reduce emissions 85% below 2005 levels by 2035, and eliminate, sequester, or offset all remaining emissions by 2035





FOCUS AREA GOALS AND STRATEGIES

TRANSPORTATION

Strategy 1: Reduce Single-Occupancy Vehicle Travel

Reduce communitywide fossil fuel SOV travel ~29% from 2018 levels by...

- Creating a Walkable and Bikeable City
- Promoting Smart Growth Strategies
- Supporting Shared Mobility

Strategy 2: Electrify Transportation

Increase EV ownership to 60% of all light-duty vehicles in Los Altos by 2035 by...

- Increasing Community-Wide Electric Vehicles Adoption
- Accelerating Community-Wide Electric Vehicle Supply Equipment Deployment

ENERGY

Strategy 1: Reduce Energy Consumption

Reduce the amount of electricity and methane gas used in homes and businesses 20% by 2035 by...

- Funding or Supporting Energy Efficiency Incentive Programs

Strategy 2: Facilitate Building Decarbonization

Reduce or eliminate methane gas use in homes and businesses by 2035 by...

- Requiring All-Electric New Buildings and Major Retrofits
- Eliminating Methane Gas Use in Existing Buildings by Increasing Fuel Switching
- Disincentivizing Methane Gas Use

Strategy 3: Increase Solar Energy and Battery Storage

Facilitate the installation of new solar capacity and expand battery storage on new and existing buildings communitywide by...

- Increasing Solar Requirements on New Construction from 4kWh to 6kWh
- Promoting Solar Incentive Programs
- Adopting Net Zero Building Requirements by 2030



FOCUS AREA GOALS AND STRATEGIES CONT.

RESOURCE CONSERVATION

Strategy 1: Reduce Waste Consumption

Increase landfill diversion, reduce water use, and promote sustainable lifestyles by...

- Increasing the Landfill Diversion to 95% by 2035
- Eliminating Non-Essential Single-Use Plastics
- Reducing Water Use 15% by 2030
- Promoting a Circular Economy

GREEN COMMUNITY

Strategy 1: Develop Nature-Based Solutions

Improve stormwater management and sequester carbon by...

- Expanding Green Infrastructure
- Improving Water Resilience
- Expanding Natural Environments and Increasing the Urban Tree Canopy

MUNICIPAL OPERATIONS

Strategy 1: Operate Sustainable Municipal Buildings

Increase efficiency, resiliency, and renewable energy at City-owned buildings and facilities by...

- Reducing Municipal Building Energy Use by 30%
- Installing Solar + Battery Storage and Pilot Microgrids at City facilities

Strategy 2: Reduce Municipal VMT

Reduce commute fossil fuel VMT and eliminate City fleet fossil fuel VMT by...

- Converting 100% of the City's Fleet to Electric Vehicles by 2030
- Developing Guidelines for Sustainable Employee Commute and Business Travel

Strategy 3: Promote Green Municipal Practices

Create and promote efficient practices by...

- Prioritizing Responsible Procurement
- Utilizing Digital and Remote Systems to reduce VMT



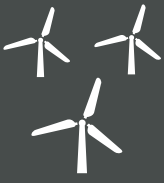
KEY ACTIONS

TRANSPORTATION

- 1.** Fully implement the 2021 Complete Streets Master Plan by 2035 and make adjustments as needed to comply with VMT reduction objectives
- 2.** Create a pedestrian-friendly Downtown and other community and commercial spaces throughout the city
- 3.** Develop and implement a new Parking Management Plan that supports strategic VMT reduction
- 4.** Pilot shared bike, e-bike, and e-scooter programs
- 5.** Support Transit-Oriented Development
- 6.** Promote Work From Home policies and infrastructure
- 7.** Develop an electric shuttle program as an alternative to SOV travel
- 8.** Expand transit service, connectivity, and transit stop amenities
- 9.** Partner with adjacent cities to improve first/last mile options
- 10.** Actively promote EV adoption and require EV-only parking
- 11.** Increase the number of available Level 2 EV charging stations in workplace, commercial and multifamily areas
- 12.** Create a citywide network of DC Fast Charging (DCFC) stations
- 13.** Double the current Electric Vehicle charging and pre-wiring requirements in future Reach Code updates

KPIS

- Miles of bike and pedestrian path built
- Number of traffic calming projects completed
- Number of EV-only, handicapped, and total citywide parking spaces
- Number of shared bikes, e-bikes, and e-scooters available to community members
- Percent of population living in high-density smart growth areas
- Yearly transit ridership
- Percent of EV penetration
- Number of public, workplace, and residential EV chargers available



KEY ACTIONS CONT.

ENERGY

1. Increase residential and commercial energy efficiency
2. Adopt evolving Reach Codes and expand to include large additions, ADUs and major remodels
3. Accelerate residential fuel switching
4. Accelerate commercial fuel switching
5. Increase community solar capacity
6. Adopt Net Zero Building requirements for new construction by 2030

KPIS

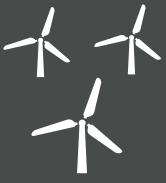
- Number of energy audits performed
- Number of residential and commercial energy efficiency retrofits performed
- Number of methane gas HVAC and hot water heater units replaced with electric versions
- Communitywide kWh of solar capacity installed
- Number and capacity of battery storage systems installed

RESOURCE CONSERVATION

1. Increase the landfill diversion rate
2. Eliminate non-essential single-use plastics
3. Reduce waste from demolition, construction and building materials
4. Increase water efficiency in buildings and landscapes
5. Promote sustainable food choices
6. Encourage responsible goods & services consumption

KPIS

- Landfill diversion rate
- Gallons of water used by the community
- Number of Farmers Markets held per year



KEY ACTIONS CONT.

GREEN COMMUNITY

1. Update building code to incentivize rainwater harvesting and greywater recycling; install systems at municipal facilities
2. Create water-efficient buildings and landscapes
3. Develop a partnership with the Regional Water Quality Control Plant to use recycled water from the plant
4. Increase urban tree canopy
5. Expand parks and natural wooded spaces

KPIS

- Percent of buildings with rainwater harvesting and greywater recycling systems
- Number of public and private trees planted
- Acres of wilderness, natural, and park areas

MUNICIPAL OPERATIONS

1. Audit appropriate City facilities and conduct comprehensive energy efficiency upgrades
2. Build new City buildings to Net Zero standards
3. Develop battery storage options and evaluate microgrids for cost savings and resilience
4. Develop a phase-out schedule to replace all City-owned fleet vehicles with electric vehicles
5. Improve City staff use of commute alternatives to single-occupant vehicles
6. Develop Work From Home and flexible schedule policies
7. Adopt a zero-waste policy for City facilities and City-sponsored events
8. Account for climate change in all new City projects
9. Integrate CAAP goals into the budget process

KPIS

- Number of building audits performed
- kWh of solar capacity installed at City buildings and facilities
- Battery storage systems installed at City buildings and facilities
- Percent of the City's vehicle fleet that is EV
- Number and percentage of City plans and standards addressing climate change