

2023 CLIMATE ACTION PLAN UPDATE

ATHERTON CITY COUNCIL
REGULAR MEETING
6/21/2023



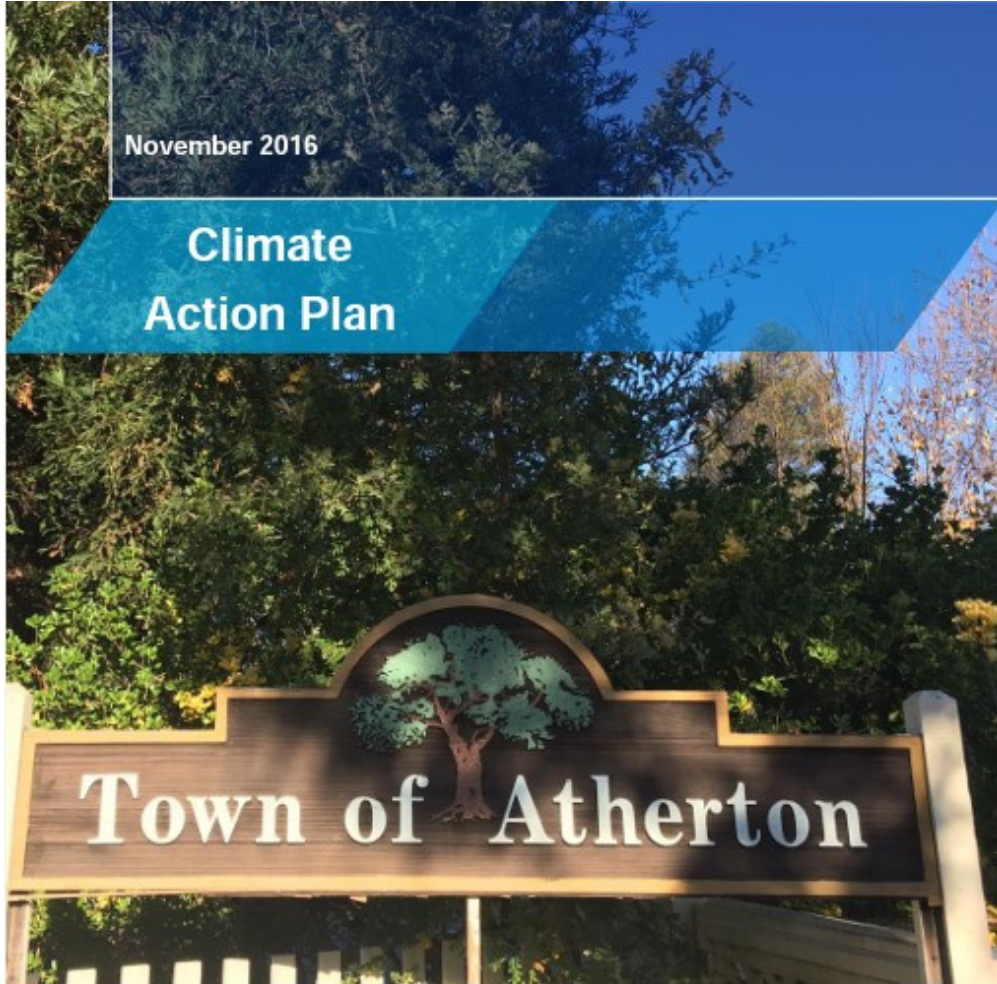


Meeting Objective

- Review and discuss the 2023 Climate Action Plan Update
- Provide direction on the draft Climate Action Plan Update

OR

- Adopt Plan as an update to the 2016 Plan and Authorize Submittal of CEQA Notice of Exemption



2016 CLIMATE ACTION PLAN

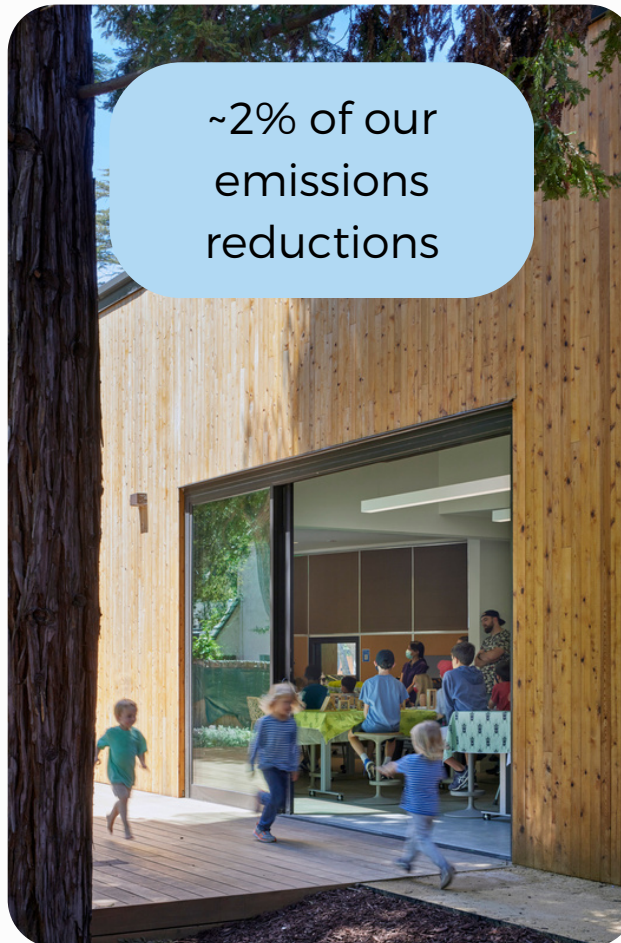
- Established a comprehensive strategy to reduce GHGs to 15% of 2005 levels (approx. the equivalent of 1990 levels)
- Identified GHG reduction measures and implementation strategies to achieve GHG reduction target

Climate Successes



~13% of our
emissions
reductions

Joined Peninsula Clean Energy to provide 100% greenhouse gas free electricity to the community. Built all electric Town Center to maximize use of clean energy.



~2% of our
emissions
reductions

Improved bike infrastructure and installed electric vehicle chargers to promote clean transportation.



~5% of our
emissions
reductions

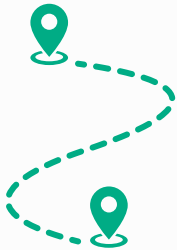
Established organic waste program turning yard and food waste into compost that is being used locally and adopted an ordinance eliminating single use plastics for food service.

These successes among others led to the Town to exceed it's goal of a 15% reduction from 2005 levels by 2020. The Town's 19% reduction is the equivalent of taking 4,374 gasoline-powered vehicles off the road for a year!

WHY UPDATE THE 2016 CAP?



State targets have changed since 2016 in response to the latest science, technological advancements, and climate emergencies



Achieved our first milestone and need a more detailed roadmap to achieve our 2030 goal



Establish a work plan for our Sustainability Coordinator & Environmental Programs Committee

CAP UPDATE PROCESS

GREENHOUSE GAS EMISSION INVENTORY



FORECAST



EXISTING AND PLANNED EFFORTS



GHG REDUCTION STRATEGIES

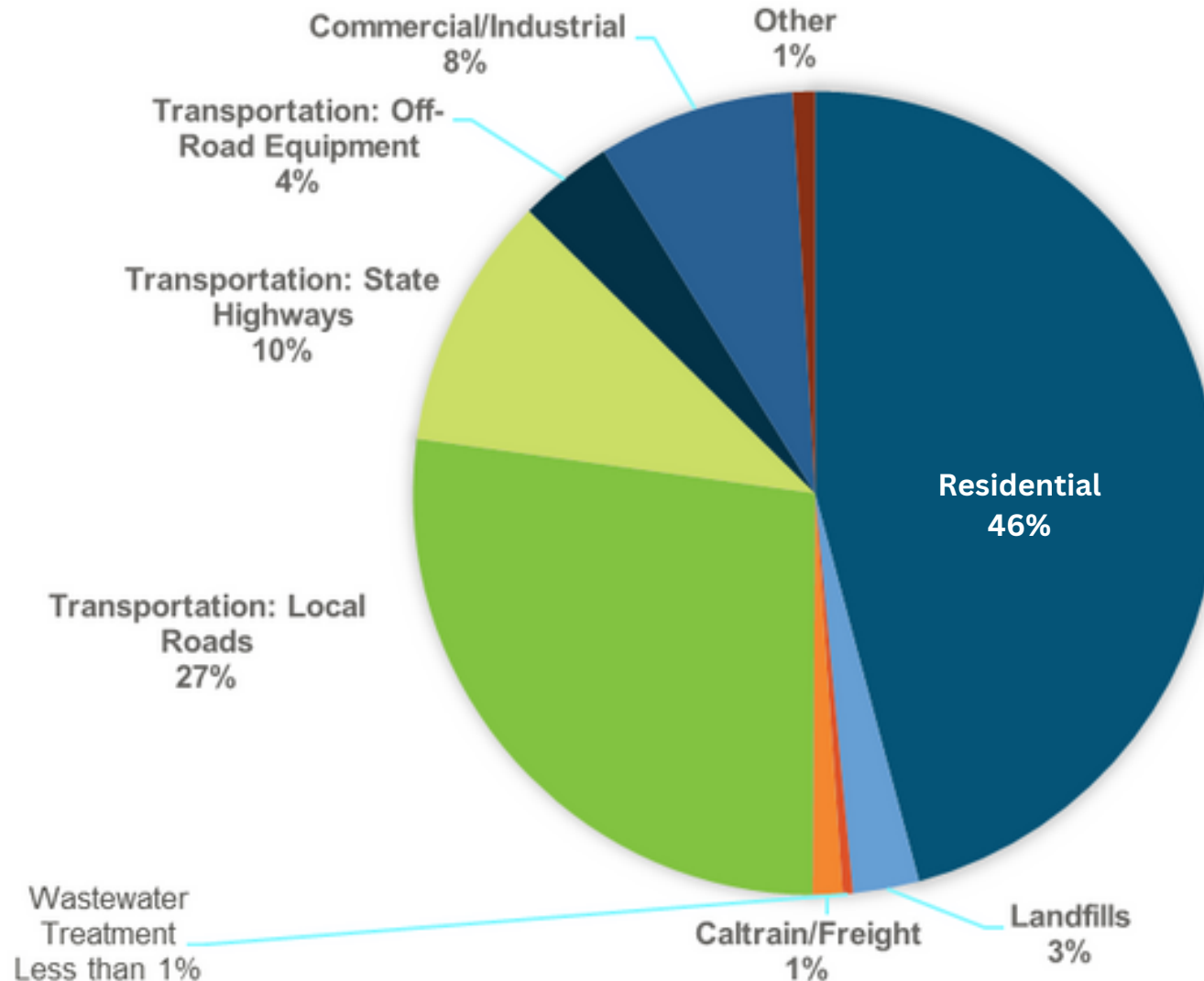


IMPLEMENTATION STRATEGY



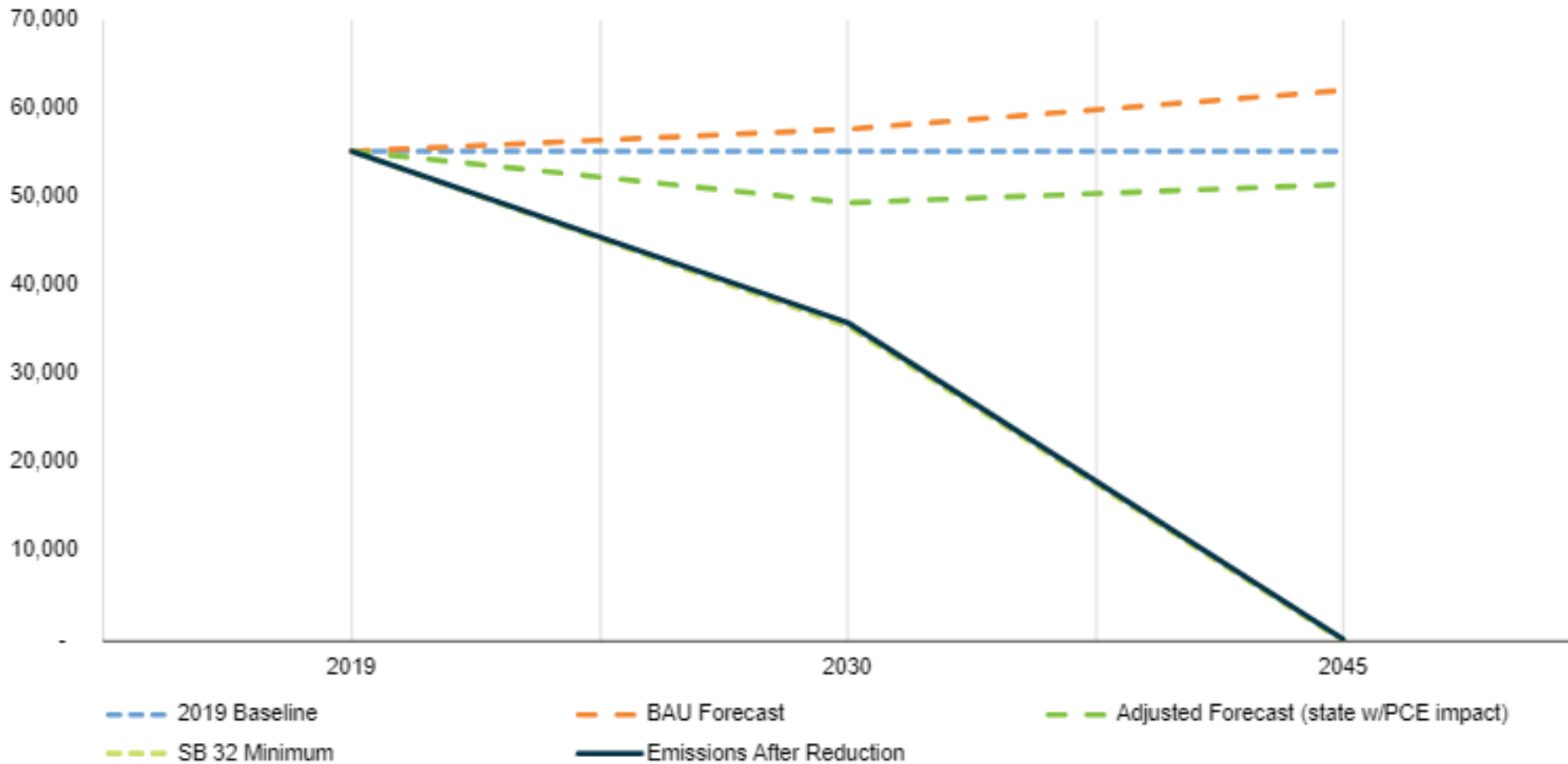
DRAFT 2023 CAP UPDATE

2019 GREENHOUSE GAS EMISSION INVENTORY



FORECAST

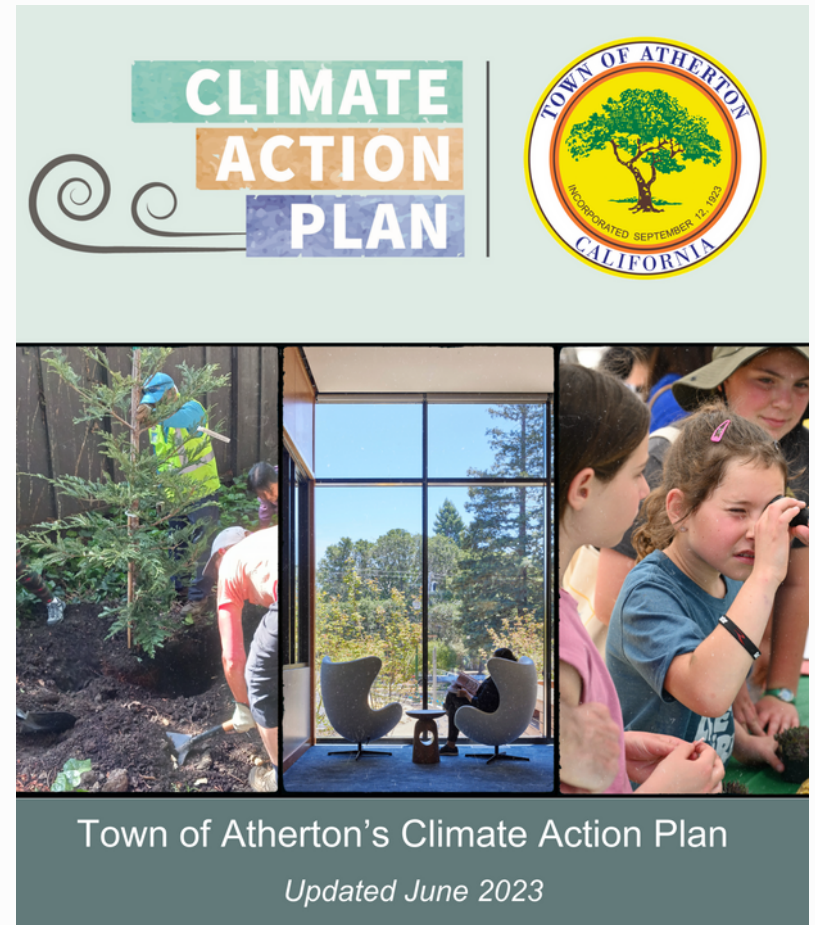
GHG Emissions Timeline



WHAT'S NEW?

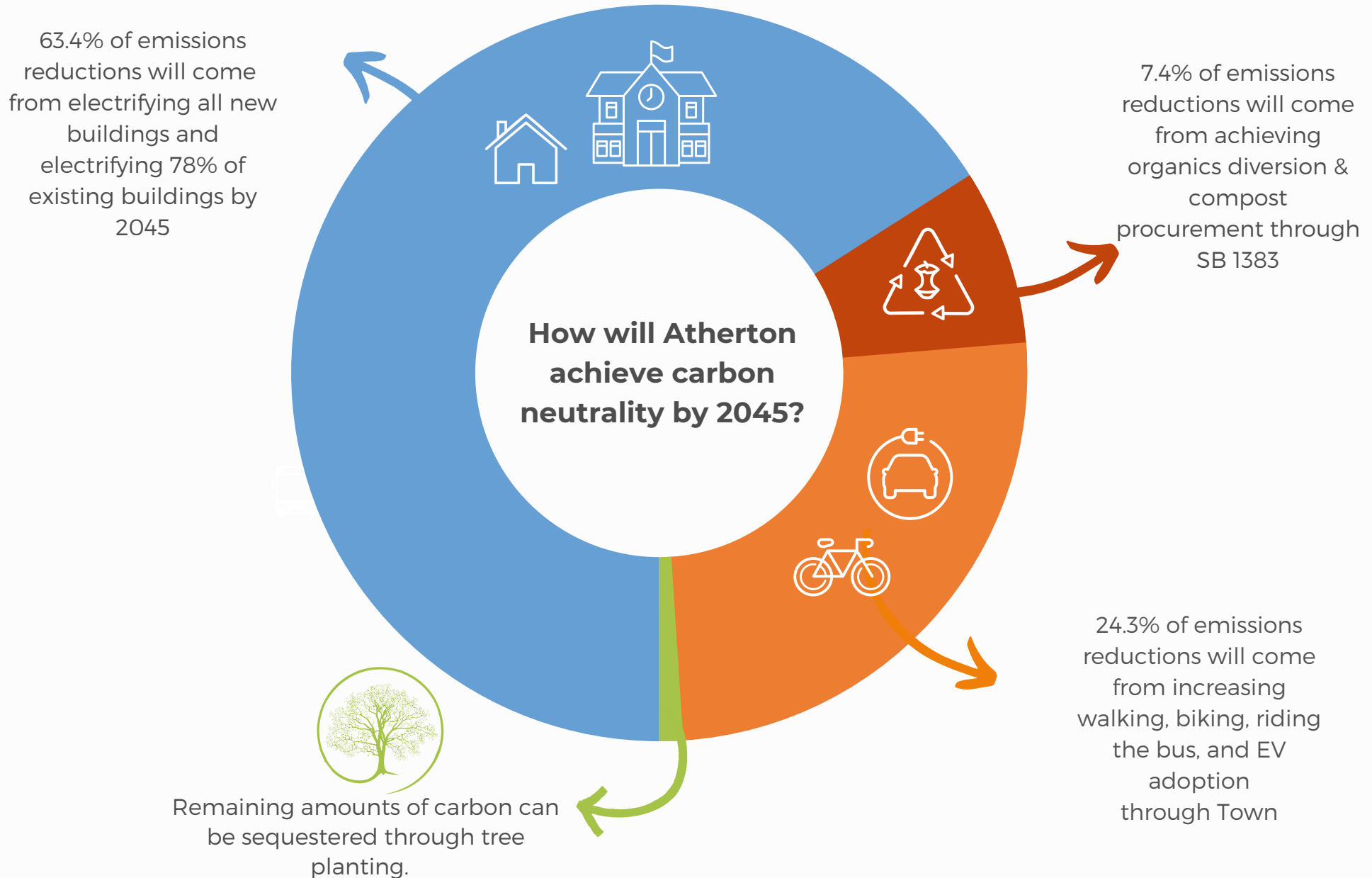
2023 CLIMATE ACTION PLAN UPDATES

- A vision for a carbon-neutral Atherton with two key milestones:
 - 49% reduction of 2005 levels by 2030 (equivalent to a 40% reduction of 1990 levels) aligning with SB 32 (2016)
 - 100% reduction of 2005 levels by 2045 aligning with B-55-18 (2018)
- Expanded our objectives and strategies to achieve these more ambitious goals including adding Carbon Sequestration as a focus area
- Introduced strategies to reduce emissions from consumption



Images from left to right: Tree planting at Holbrook Palmer Park, the view from the Library, and the next generation learning at the 2023 Love Our Earth Festival

GHG REDUCTION STRATEGIES



ENERGY

	Objective	2030 Goal	2045 Goal
E1	Electrify new construction	100% of new construction is all-electric	Maintain 100% of new construction as all-electric
E2	Electrify existing buildings	26% of existing buildings are electrified	78% of existing buildings are electric
E3	Promote use of clean energy	Maintain Peninsula Clean Energy's (PCE) opt-out rates at 3%	Maintain a 3% or less opt out rate



Featured photos: Located in Portola Valley, Tah Mah Lah, was recognized by PCE for being Zero Net Energy - the all electric estate and vehicles are fueled by both on-site solar and geothermal sources of energy.

TRANSPORTATION

	Objective	2030 Goal	2045 Goal
T1	Implement the Projects in the Bike and Pedestrian Master Plan	Decrease vehicle miles travelled (VMT) by 0.42%	Decrease VMT by 1%
T2	Decarbonize passenger and commercial vehicles and off road equipment	Increase passenger adoption from 7.36% to 50%, increase commercial from 9.71% to 25% by 2030	Increase both to 100%
T3	Promote biking, walking, rolling, and taking transit through and in Town	Increase active transportation mode share from 2% to 4%	Increase active transportation mode share to 7%



Featured photos: Residents exploring different options for bicycles, electric vehicle chargers at Town Center, and a digital rendering of SamTrans' fleet which will be all electric by 2034.

SOLID WASTE

	Objective	2030 Goal	2045 Goal
W1	Implement SB 1383 requirements to divert organic waste, reduce inorganic waste, and procure compost.	Reduce community-wide landfilled organics 75% by 2025 and maintain, apply 600 tons of compost to land areas throughout the community	Reduce all community-wide landfilled waste by 90%, apply 659 tons of compost to land areas throughout the community
W2	Eliminate single use plastics	Achieve zero plastic waste in municipal operations	Achieve zero plastic waste in the community
W3	Promote waste diversion through home composting, reducing, reusing, and recycling	Reduce all waste by 35%	Reduce all waste by 90% by 2040



Featured photos: Pilot to apply compost on San Mateo County farmlands to meet our SB 1383 goals, providing opportunities to properly dispose of and reuse items through community events, and an example of reusable foodware for school lunches

CARBON SEQUESTRATION AND WATER CONSERVATION

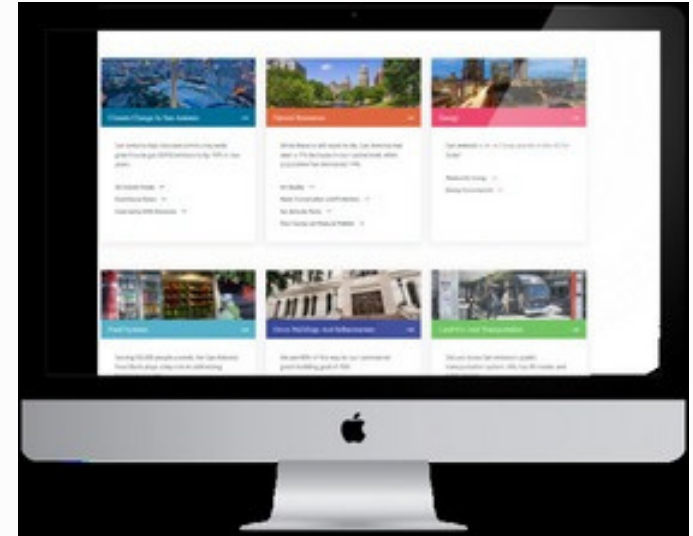
	Objective	2030 Goal	2045 Goal
C1	Increase the community's tree canopy	Plant 650 trees	Plant 1,500 trees
C2	Explore carbon sequestration opportunities in the community	Quantify and pursue opportunities	Carbon loads that can not be zeroed will be offset by an array of carbon sequestration approaches
C3	Reduce embodied carbon in building materials	Achieve a 20% net reduction of GHG emissions of building materials	Maintain or increase 40% reduction (should be met by 2035 per AB 2446)
C4	Conserve water both in landscaping and in buildings	Gallons used is less than State guidelines per capita	Gallons used is less than State guidelines per capita



Featured photos: An Atherton resident's water wise landscape, community tree planting at Holbrook Palmer Park, and the Atherton Library leading by example showcasing low carbon building materials

SPRINGING INTO ACTION

- Hone in on opportunities with Town operations
- Deepen partnerships with local energy programs
- Expand compost giveaway program and facilitate planting of 100 trees
- Create an inviting data-driven climate action hub custom for Atherton community members
- Pursue funding and assistance
- Finalize our 2021 and 2022 inventories



Engaging residents with data, stories, and actionable resources



Residents digging into the self service organic compost pile at Holbrook Palmer Park



Recommendation

- Review and discuss the 2023 Climate Action Plan Update
- Provide direction on the draft Climate Action Plan Update

OR

- Adopt Plan as an update to the 2016 Plan and Authorize Submittal of CEQA Notice of Exemption



THANK YOU!
QUESTIONS?
