Welcome! The Webinar will begin shortly





cityofpaloalto.org/ClimateAction

Acting Now for a Resilient Future



Agenda



- S/CAP Update and 2023-2025 Work Plan
 - Feedback and Questions
- Full Service Heat Pump Water Heater Pilot Program
 - Feedback and Questions
- S/CAP Ad Hoc Committee Comments

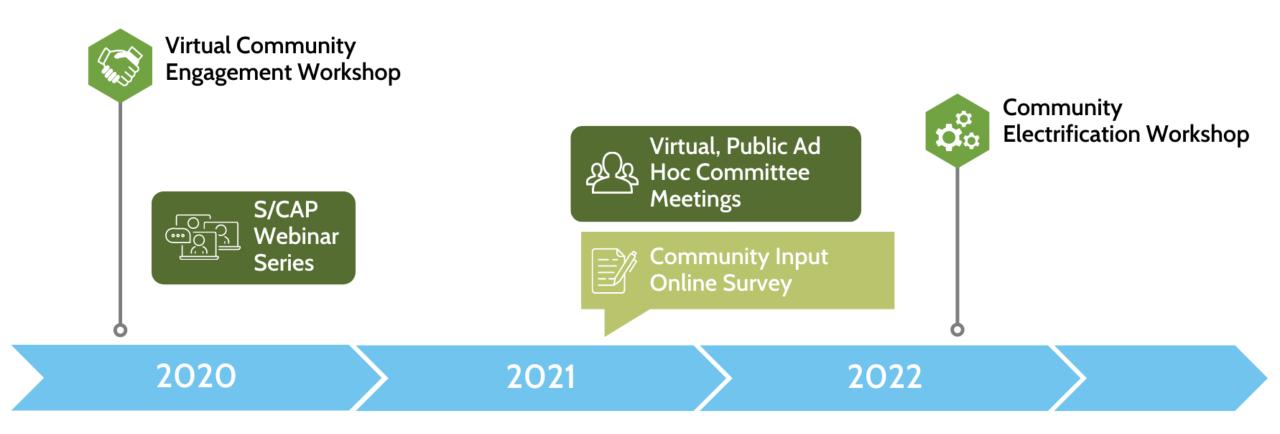
Sustainability and Climate Action Plan (S/CAP)





S/CAP Update Community Engagement





City Council Actions









• April 19, 2021: Directed the Mayor to form an S/CAP Ad Hoc Committee



• December 13, 2021: Study Session on S/CAP and Ad Hoc Committee



• March 7, 2022: Joint Study Session with UAC



• April 11, 2022: Study Session on Earth Day Report



• September 27 and October 3, 2022: Council approved the S/CAP Goals and



Key Actions which initiated CEQA review, recommended the creation of an Advanced Heat Pump Water Heater Pilot Program, and adopted a carbon



neutrality by 2030 goal

Sustainability and Climate Action Plan (S/CAP) Goals



California's Goal:

Palo Alto's Goal:

48% BELOW
1990 LEVELS

BY 2030

Carbon Neutral

BY 2045

80% BELOW 1990 LEVELS

BY 2030

Carbon Neutral

BY 2030















S/CAP KEY ISSUE AREAS



CLIMATE ACTION

Reduce overall greenhouse gas emissions 80% below 1990 levels by 2030



ELECTRIFY BUILDINGS

Reduce the use of natural gas in buildings



INCREASE ACTIVE TRANSPORTATION

Reduce overall vehicle miles travelled



SUPPORT EV ADOPTION

Reduce transportation related greenhouse gas emissions



NATURAL ENVIRONMENT





PREPARE FOR CLIMATE CHANGE

Reduce impacts of climate change from sea level rise and wildfires

ENHANCE BIODIVERSITY

Restore and enhance resilience of the natural environment

SUPPORT ZERO WASTE

Divert 95% of waste from landfills by 2030, leading to zero waste

FURTHER WATER CONSERVATION

Decrease water use and improve water systems

Outcomes Needed by 2030









• Vehicle Miles Traveled (VMT) are reduced 12%



• 85% of all Palo Alto new vehicle purchases are EVs (up from 30%) for a vehicle fleet that is 44% EVs (50% in single-family households, 33% in multifamily)



• 40% of commuter trips into Palo Alto and 30% of visitor trips are made by EVs, 35% total (Currently 3%)



• Virtually all single-family gas appliances and virtually all commercial rooftop HVAC units are electrified



 Significant additional multi-family and commercial building electrification and other emissions reductions to be determined







2023-2025 S/CAP Work Plan Development









Staff presented a draft Policy Framework



Council supported the framework and added additional actions



August 2021: First Draft of Three-Year Work Plan



Includes estimates of staff and funding needs for implementation



• December 2021: Second Draft of Three-Year Work Plan



S/CAP Ad Hoc Committee and Working Group Review



June 14, 2022: Public S/CAP Working Group Meeting

2023-2025 S/CAP Work Plan: Climate Action





P1. Complete grid modernization plan



P2. Launch effective programs for emissions reductions with highest impact and lowest cost



P3. Build community awareness and confidence in electrification



P4. Identify an additional 9% in emissions reduction opportunities to achieve the 80x30 goal



P5. By 2024 identify funding needed and potential funding sources for full scale implementation of highest impact emissions reductions





Climate Action Work Plan Highlights

















Priority	2023	2024	2025	
P1 (Modernize grid)	 Grid modernization study completion, hire contractor Reliability/Resiliency Strategic Plan 	 Begin a 5-7 year construction effort to increase reliability and transformer capacity Implement Reliability and Resiliency Strategic Plan 		
P2 (Launch programs)	Design and launch programs:			
	 Full-scale HPWH program Pilot commercial HVAC Municipal electrification Downtown parking management program On-demand transit pilot 	 Single-family whole home Full-scale commercial HVAC Full-scale multi-family EV charger program (tentative) 	Design and launch additional programs based on the 2024 studies (See P4 for other studies that may result in new programs) and the EV	
	Studies to guide program launches:		Strategic Plan	
	 EV Strategic Plan Multi-family and incomequalified EV work plan Bicycle Plan update 	 Work plan for commuter and visitor EV charging and EV promotion Vision Zero program (tentative) 		

Climate Action Work Plan Highlights



	Priority	2023	2024	2025
	P3 (Build awareness and confidence)	Build awareness of the need for climate action and the City's services and achievements. Drive community actions to achieve S/CAP goals. Build confidence in the City's electric infrastructure. Report results from new and existing programs:		
		 New program: HPWH pilot Existing programs: Existing Mobility programs Multi-family EV charger 	 New programs: Full-scale HPWH program, commercial HVAC pilot All other existing programs 	 New programs; Full- scale HVAC, multi- family EV charger Existing programs
	P4 (Additional emissions reductions)	 Seek ideas from community members and other experts Monitor technologies and medium term opportunities 	 Multi-family and non- residential electrification study Study highest potential community ideas/technologies 	 Evaluate new programs based on studies
THE STATE OF THE S	P5 (Funding needs and sources)	 Evaluate implementation cost for full scale high impact / lower cost programs Preliminary evaluations of potential funding sources 	 Decisions on how to fund priority electrification areas Develop financial and operational plan for gas utility 	Implement follow- up from prior-year studies

2023-2025 S/CAP Work Plan: Sustainability









Develop and adopt a multi-year Sea Level Rise Adaptation Plan



Minimize wildland fire hazards



Increase Palo Alto's Tree Canopy and reduce pesticide usage



• Support the Green Stormwater Infrastructure (GSI) Plan



Encourage food waste reduction, prevention, and recovery



• Eliminate single-use disposable containers and prioritize domestic processing of recyclable materials

Feedback and Questions







































SWITCH YOUR WATER HEATER

Switching to electric is better for your health, your wallet, and the environment. Upgrade to a heat pump water heater with these new options.

FULL SERVICE SOLUTION

\$2,700 for a standard installation through a City contractor, which includes a rebate.

FULL SERVICE SOLUTION WITH MONTHLY PAYMENTS

\$1,500 for a standard installation through a City contractor with \$20 monthly payments on your utility bill for 5 years, which includes a rebate.

APPLY FOR A REBATE

\$2,300 with an approved application. You choose your contractor.

www.cityofpaloalto.org/UpgradeYourWaterHeater











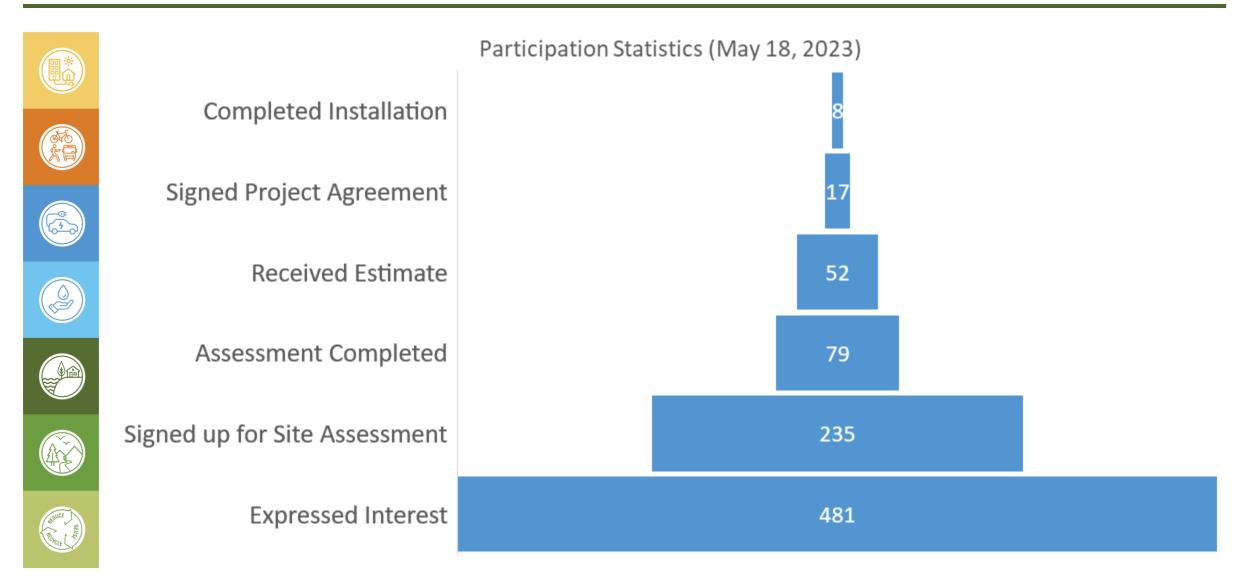






- Officially launched in February 2023
- Generated a lot of interest very quickly more than anticipated
- Nearly 500 people interested, with most contacted by the City
- 8 HPWH installs completed, 9 scheduled but a lot of progress behind the scenes
 - Interest list should all be contacted within the next couple of weeks, after that new participants
 will be contacted within a week
 - 79 site assessments completed, over 100 more scheduled, about 60 remaining to be scheduled
 - Productivity in getting people assessments and estimates is increasing
- Next major focus: increasing participant commitment rate and generating leads
- Marketing next steps community partnerships (e.g. Silicon Valley 350), electrification marketing campaign, and traditional municipal / utility marketing
- Great City / contractor / community alignment everybody is pushing for success





Feedback and Questions



















Objectives for June 5 Council Meeting

















- 1. Certify the Comprehensive Plan Environmental Impact Report Addendum: Update to the Sustainability and Climate Action Plan (S/CAP)
- 2. Adopt a resolution Approving an Addendum to the Comprehensive Plan Environmental Impact Report and Adopting the Sustainability and Climate Action Plan
- 3. Accept the 2023-2025 S/CAP Work Plan
- 4. Review the 2023 Earth Day Report



















SUSTAINABILITY & CLIMATE ACTION PLAN

Thank You!

