



# 2022 Earth Day Report

April 11, 2022





- Provide an update on the S/CAP Ad Hoc Committee's Work
- Discuss the Sustainability and Climate Action Plan (S/CAP) and Residential Building Electrification
- Present the updated S/CAP and Residential Building Electrification Strategy Development Timeline
- Review Palo Alto's 2020 Greenhouse Gas Emissions Inventory



- Intergovernmental Panel On Climate Change Report – April 4, 2022
  - Countries need to drastically accelerate efforts to slash emissions from coal, oil, and natural gas or limiting global warming to 1.5 degrees C will be out of reach
  - We have the tools to slow global warming
    - The technology is (mostly) there
    - Renewable energy is growing and getting cheaper
    - We have a better chance than we did a few years ago at slowing climate change
    - Ditching fossil fuels is costly, but sticking with them is costlier
- Our 80 x 30 goal is in line with the global reductions needed



- 8 Public Meetings, 8 internal meetings
- 1 Residential Building Electrification Workshop
- Deliverables
  - Updated S/CAP Goals and Key Actions and Three-Year Work Plan
  - Established an S/CAP Ad Hoc Working Group and Working Group Teams
  - S/CAP and Residential Building Electrification Strategy Development Timeline
  - Sustainability Newsletters and Climate Blogs, Sustainability Hub
  - Sustainability and Climate Action Frequently Asked Questions
- Decisions
  - Residential Building Electrification Pilot and Long-Term Plan
  - Final S/CAP Goals and Key Actions and Three-Year Work Plan










- Residential building electrification is a key area of focus for the S/CAP
- Electrical grid infrastructure improvements are needed
  - Work must be done in parallel with S/CAP building electrification
- Permitting and inspection processes for electrification projects must be able to scale efficiently for broader implementation
- Piloting Solar APP+



- Advance residential building electrification goals, focusing on 4 areas:
  - Engagement
  - Technology
  - Finance
  - Community Scale
- Each team led by one Council Member and one Staff Member
- Each team will have at least one Utilities Advisory Commission member, at least one working group member, & additional community members
- Grid Modernization will be important part of discussions

# Revised S/CAP and Residential Building Electrification Strategy Timeline

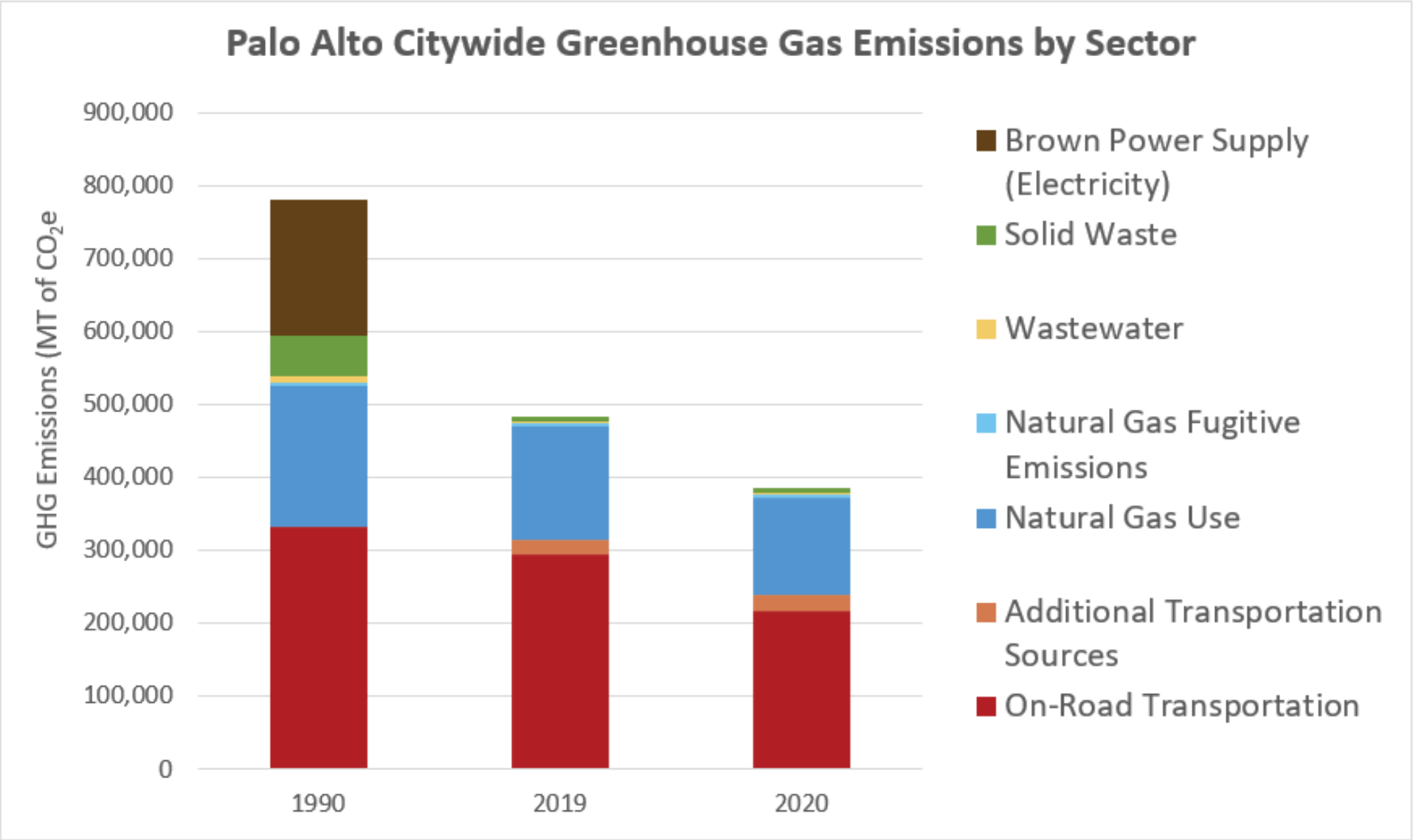
      	Proposed Date	Key Milestone
	April 2022	Launch Climate Pledge
	May 2022	Identify complete set of S/CAP Sustainability Area Goals and Key Actions
	June 2022	Working Group Teams wrap-up recommendations
	July 2022	Refine proposed S/CAP Goals & Key Actions and revise Three-Year Work Plan with Working Group recommendations, draft S/CAP Report
	September 2022	“Making Better Choices in Your Home” Workshop, Climate Day of Action
	Late September 2022	Council Approval of Proposed S/CAP Goals and Key Actions and revised Three-Year Work Plan, Council review of draft S/CAP Report
	Late September 2022	Council Approval of Building Electrification Pilot and Long-Term Plan
	Late September 2022	Start California Environmental Quality Act (CEQA) evaluation of S/CAP
	March 2023	CEQA review completed
	April 2023	Council certification of CEQA and adoption of S/CAP



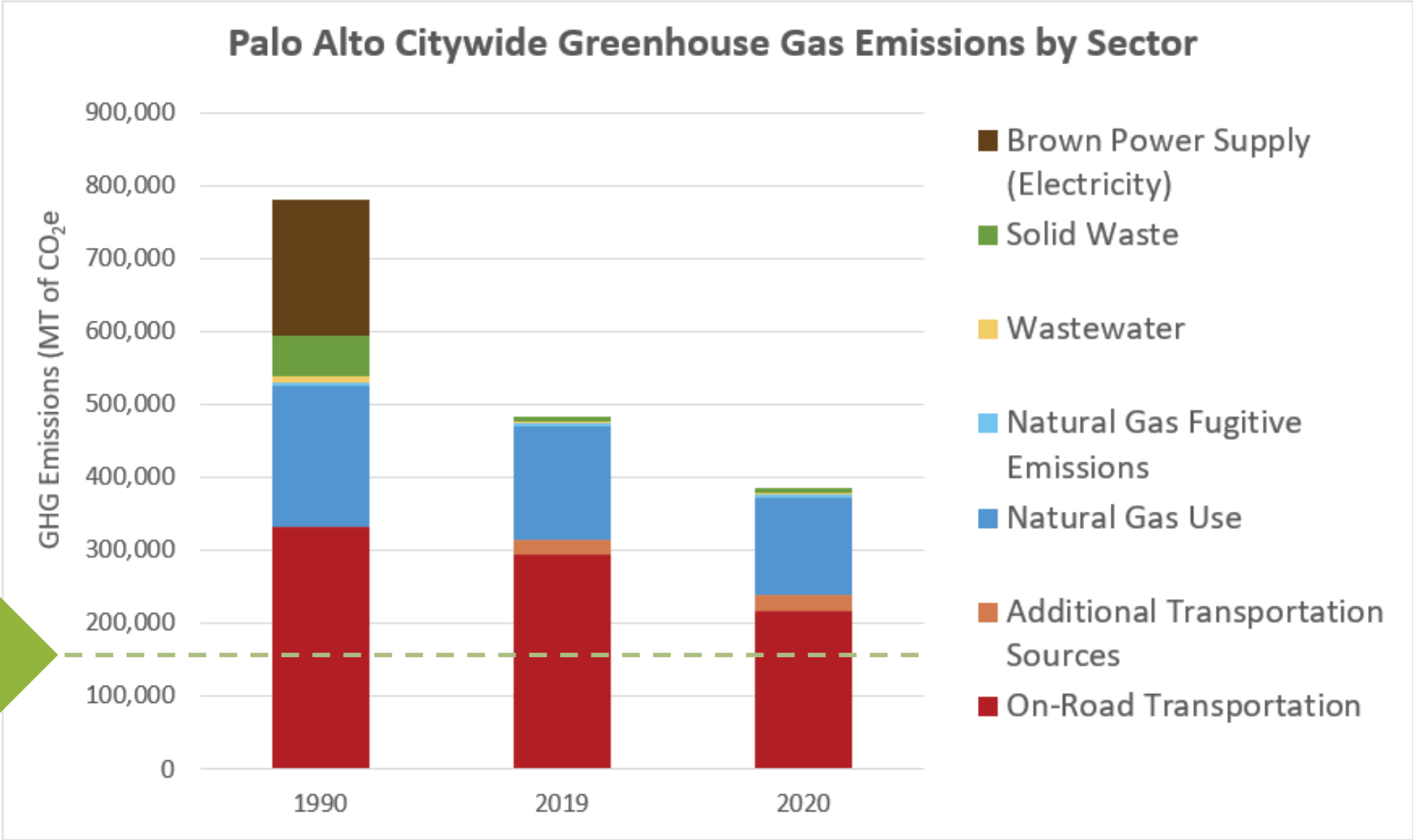
- Pandemic impacts on emissions may be temporary, and include:
  - How and where people worked
  - Energy use
  - Vehicle miles traveled
  - Carbon dioxide emissions
- COVID-19 Pandemic disrupted everyday life across the world
- What's not included: consumption-based emissions



# Palo Alto GHG Emissions Down ~50.6% (~42% without Pandemic)

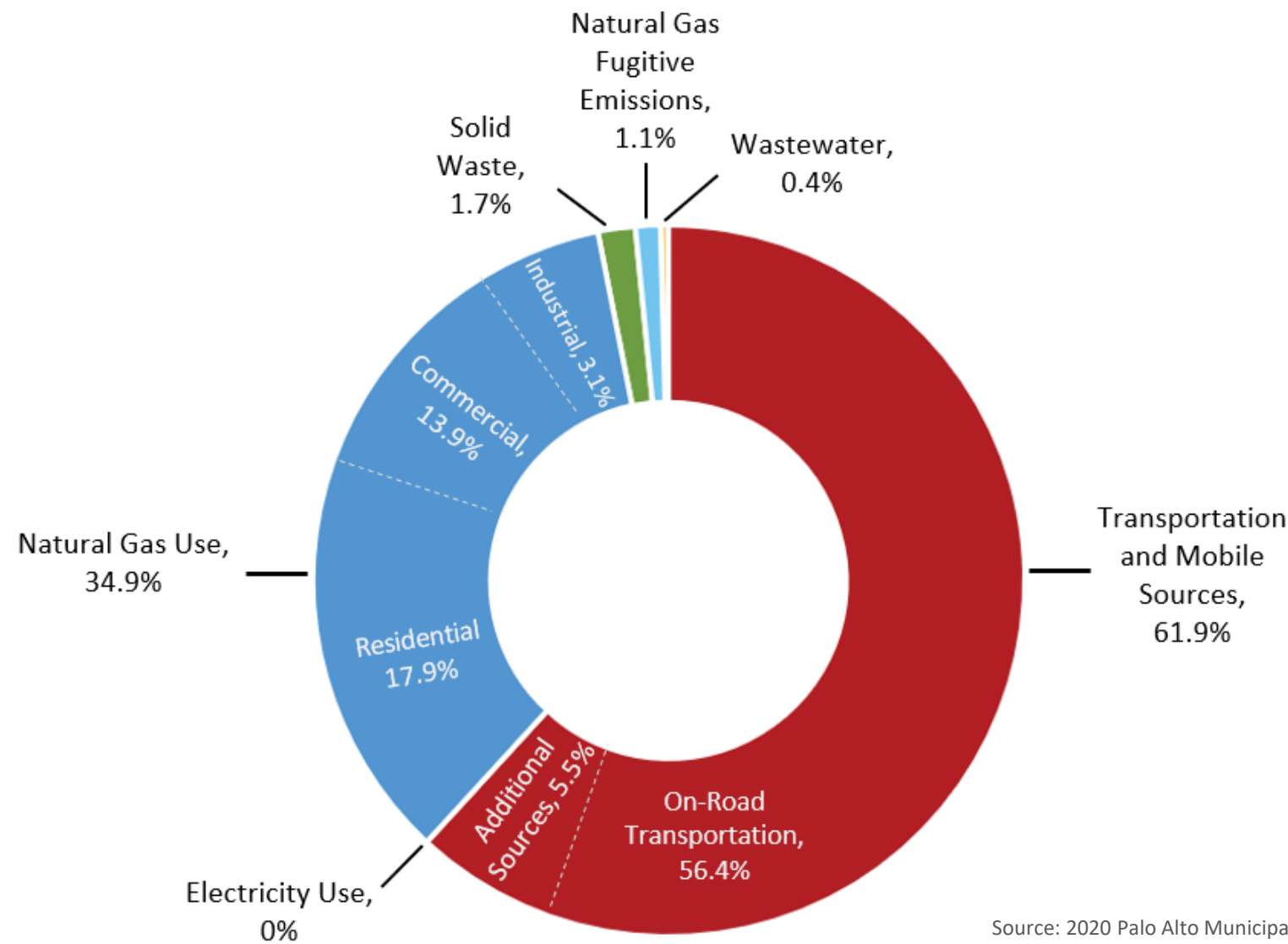


# Palo Alto GHG Emissions Down ~50.6% (~42% without Pandemic)



80 x 30 Target  
(156K MT CO<sub>2</sub>e)

# GHG Emission Sources in Palo Alto



Source: 2020 Palo Alto Municipal Operations & Community GHG Emissions



- Launch Climate Pledge



- Working Group Teams



- Refine proposed S/CAP Goals & Key Actions for all 8 areas and revise Three-Year Work Plan with Working Group recommendations



- Integrate Working Group recommendations into Residential Building Electrification Pilot



- Draft S/CAP Report







# **SUSTAINABILITY & CLIMATE ACTION PLAN**

**Thank You!**

*Acting Now for a Resilient Future*



CITY OF  
**PALO  
ALTO**