

All action is climate action.



How you power your home/business

How you get around

All action is climate action.



How you power your home/business



How you get around

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All action in climate action.



How you power your home/business

How you get around





- Phoenix joined C40 Cities in Feb. 2020
- Mayor Kate Gallego affirmed Phoenix commitment to the Paris Climate Accord
- C40-compliant Climate Action Plan by Dec 2021





2009

First City
Operations
Greenhouse
Gas
Emissions
Inventory

City
Operations
Climate
Action Plan

2012

First
CommunityWide
Greenhouse
Gas
Emissions
Inventory

2016

2050 Sustainability Goals 2018

City
Operations &
CommunityWide
Greenhouse
Gas
Inventories

2020-2021

Climate Action Planning

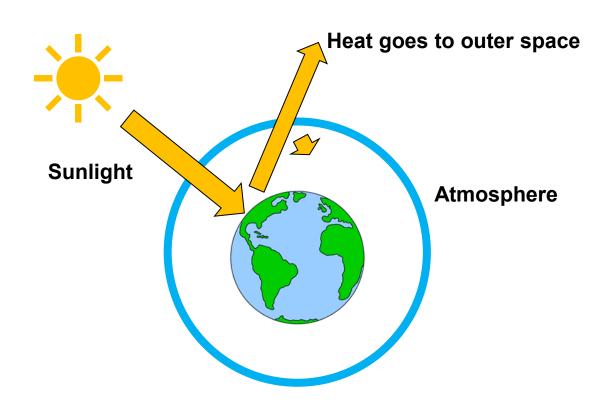
Climate Action Plan by December 2021 2050

Net-zero GHG city

Introduction - Why Greenhouse Gases?



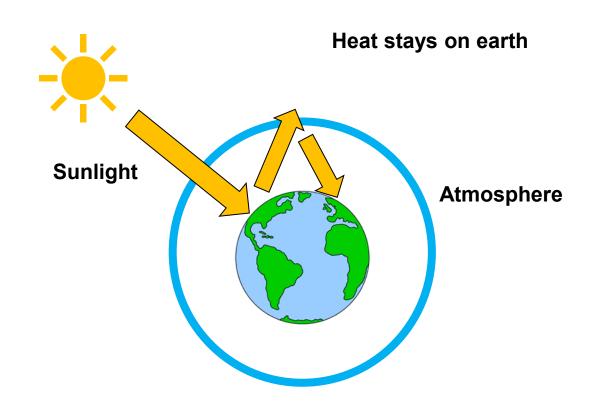
Greenhouse Effect



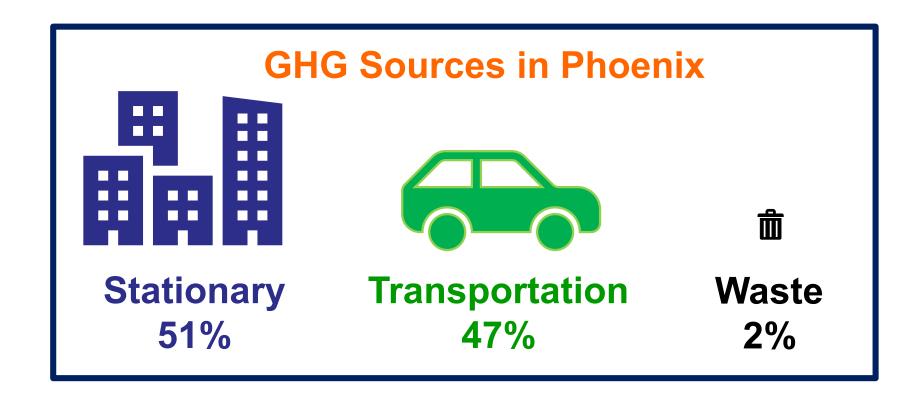
Introduction - Why Greenhouse Gases?



More GHGs in atmosphere means more heat for us



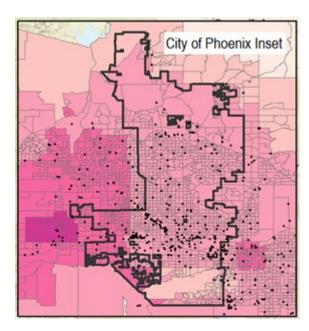




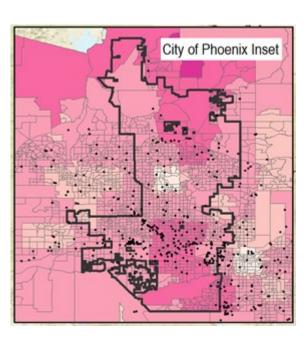
The largest sources of GHGs are from the generation of electricity and use of gasoline fuel.



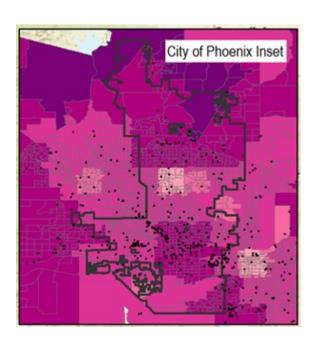
Extreme Heat: Maximum Summer Temperature (Darker colors signify higher temperatures)



Historical Average over 1986-2005



Predicted: Lower Emissions

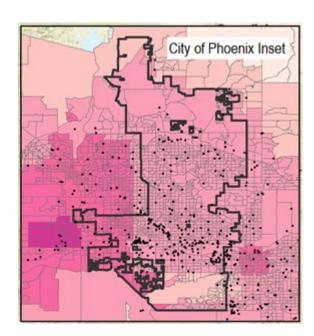


Predicted: Business as Usual

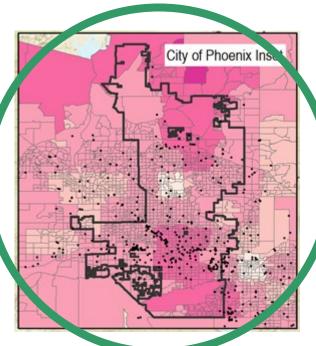
RTI Study 2020



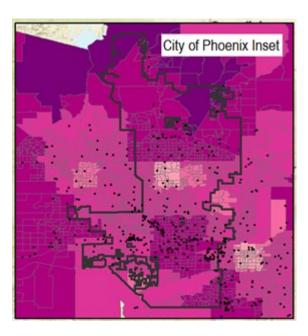
Extreme Heat: Maximum Summer Temperature (Darker colors signify higher temperatures)



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Predicted:
Lower Emissions

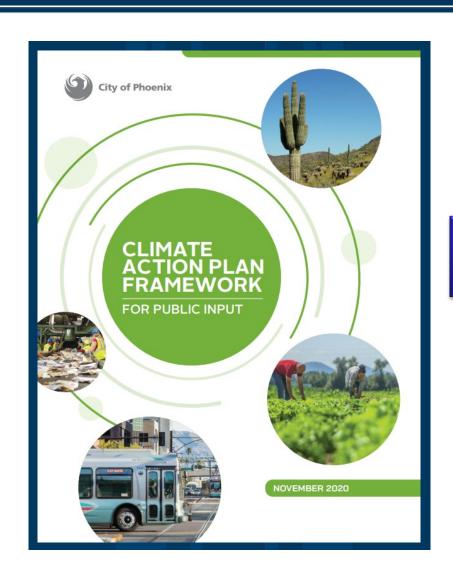


Predicted: Business as Usual

RTI Study 2020

Climate Action Plan Framework





phoenix.gov/oep/climate

Climate Action Planning



Climate Liaisons - 28 Departments C40 Pathways Modeling **Data Verification** Plans, Programs, Community **Projects** Input **ACTIONS**

Climate Action Planning



Climate Liaisons - 28 Departments



Plans, Programs, Projects

C40 Pathways Modeling Data Verification





Climate Action Planning







Emission Reduction Goals

Stationary Energy Sector

Transportation Sector

Waste Sector

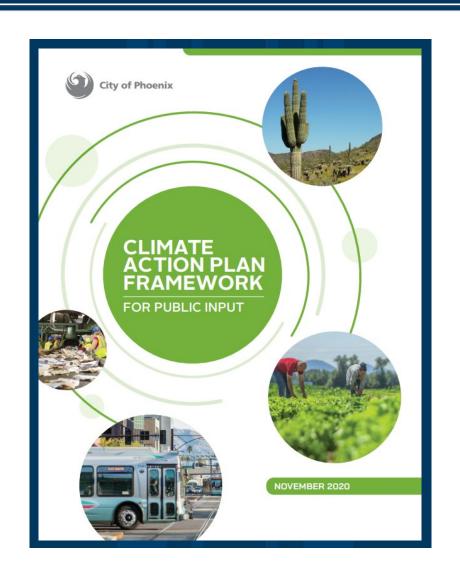




Air Quality
Local Food Systems
Heat
Water

Climate Action Plan Framework





Sector Goals

2050 Goals

Quickstart Action Examples

Short, Mid, Long-term Goals

Key Achievements

Stationary Energy Goals



2050 Goal:





Goal 1 Add 50 MW Solar by 2030 Goal 2
Reduce energy use
25% by 2025

Goal 3
Secure 200MW of renewable energy to offset electricity use in City Operations.

Goal 4
Three new
conservation and
renewable-energy
programs by 2025.

Goal 5
Promote development
of microgrids

Goal 6
Net-Positive
Buildings by 2050

Goal 7
Net-zero electrical
grid by 2050

Stationary Energy – Quickstart Example



• Install solar at city housing sites for a total of 872 kW by 2021.





phoenix.gov/housing/building-affordable-housing/cni-grant

Stationary Energy – Key Achievement



Solar on 50 City Properties



Rental Car Center Solar Installation: 4.2 MW



Burton Barr Library: 148 KW



Lake Pleasant Water Treatment Plant - 7.5 MW

Transportation Goals



2050 Goal:







Goal 1

Implement the city's Complete Streets
Policy and Active Transportation
Program to encourage multiple
modes of transportation.

Goal 2

Increase the use of alternative fuels.

Goal 3

Increase the adoption and rollout of electric vehicle and electric-vehicle charging stations.

Goal 4

Reduce the number of **vehicle trips** taken.

Waste Goals



2050 Goal:





Goal 1

Implement programs to increase the reuse and recovery of waste materials and promote social and economic value.

Goal 2

Reduce GHG emissions resulting from degradation of waste by increasing landfill gas capture.

Goal 3

Increase wastediversion participation by all residents and businesses.

Goal 4

Transition to green alternatives from environmentally hazardous materials.

Goal 5

Expand brownfield redevelopment along the Rio Salado in Phoenix.

Goal 6

Reduce GHG emissions from water and wastewater treatment by capturing biogas from treatment processes.

Air Quality Goals



2050 Goal:





Goal 1

Decrease **ozone precursor emissions**, like nitrogen oxides and volatile organic compounds from municipal vehicles by 10% by 2025.

Goal 2

Decrease emissions of dust/particulate matter (PM-10 and PM-2.5).

Local Food Systems Goals



2050 Goal:





Goal 1

All people living in Phoenix should have enough to eat and have access to affordable, healthy, local, and culturally appropriate food.

Goal 2

Businesses that produce, process, distribute, and sell local and healthy food should be recognized as integral to the economy and encouraged to grow and thrive in Phoenix.

Goal 3

Growing food in Phoenix and the region should be **easy and valued**, for personal or business use.

Goal 4

Food-related waste should be prevented, reused, or recycled via sustainable food production practices that maintain a healthy environment.

Goal 5

Develop food policies and actions that address local and global challenges posed by climate change, urbanization, political and economic crises, population growth and other factors.

Heat Goals



2050 Goal:



2030 Goal:



Goal 1:

Create a network of cool corridors in vulnerable communities to facilitate movement from residents' homes to their places of employment, education and play.

Goal 2:

Increase shade provided by trees or constructed shade in parks, streets and right-of-way.

Goal 3:

Provide resources and services to residents to manage heat.

Goal 4:

Increase the use of high albedo, or reflective, materials in infrastructure projects.

Goal 5:

Develop HeatReady certification for cities.

Water Goals



2050 Goal:



Goal 1:

Identify and implement infrastructure projects to ensure water security.

Goal 2:

Improve conservation of water resources by improving stormwater management, optimizing water use, conducting water audits, and utilizing wastewater.

Goal 3:

Increase outreach and provide programs to residents and businesses to reduce water use.

Goal 4:

Reduce GHG emissions from water and wastewater treatment by capturing biogas from treatment processes and increasing renewable sources of energy.

MAG/Regional Interface



• MAG:

MARICOPA ASSOCIATION of GOVERNMENTS

- Heat Relief Regional Network
- MAG Air Quality Technical Advisory Committee
- Transportation Division
 - T2050, Valley Metro





- Maricopa County
 - Air Quality & Public Health Departments
- Regional Resiliency Summit
- Maricopa County Food Systems Coalition



MARICOPA COUNTY

State and Federal Interface



- Arizona Water Banking Authority
- 2018 Arizona Hazard Mitigation Plan
- Utilities transitioning to clean energy
- Department of Environmental Quality
 - Air Quality Coalition
- Department of Agriculture
 - Food & Agriculture Policy Advisory Committee
- Clean Air Act
- New Administration
 - Rejoining Paris Agreement











Next Steps



Public Engagement
Virtual Workshops & Topic-Driven Surveys

Spring 2021

Complete C40 Pathways Modeling

Spring 2021

Draft Plan Completed

Spring 2021

Draft Plan Public Comment Period

Summer 2021

Final Plan to City Council

Fall 2021

How to use your voice



Find your Councilmember

https://www.phoenix.gov/mayorcouncil/find-my-council-district

Budget Hearings

https://www.phoenix.gov/budget/fund

Mayor & Council



The Phoenix City Council is made up of a mayor and eight councilmembers, elected by the people on a non-partisan ballot for four-year terms. Find information on this page to help you get in touch with your councilmember.

- Use our online search to find your council member
- View a listing of all City Council staff
- View a list of City Council Subcommittees
- · View City Council meetings and agendas





City of Phoenix 2020-21 General Fund Budget (by Category)

Yo	ου are balanced.	
Where the Money Goes	Spending	
	Public Safety: \$944.7m	>
	Community Enrichment: \$169.5m	>
	Contingencies and Unassigned Vacancy Savings: \$37.0m	>
	General Government: \$152.9m	>
	Criminal Justice: \$37.5m	>
	Transportation: \$20.8m	>
	Environmental Services: \$18.8m	>
Revenue	Community Development: \$24.8m	>
	Submit	

Comments & Questions



Climate Page, Surveys, Future Workshop

Information

www.phoenix.gov/oep/climate



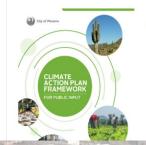




Recycling Program

Phoenix Climate Action Planning

Have a minute? Give us your feedback! What climate action do you want by 2025? Let us know here!



The Draft Climate Action Plan Framework is now available for public review and comments.

View the draft here or by clicking the photo.