

# **Climate Action Planning**

**Learning and Listening:  
Climate Action Plan Basics  
August 26, 2020**

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Office of Environmental Programs

**City of Phoenix**

# 2015 ENVIRONMENTAL SUSTAINABILITY GOALS



**A Carbon  
Neutral City**  
by 2060

**30% GHG Reduction by 2025**





# BACKGROUND

2009  
**CITY OPS**  
GHG  
Inventory &  
Climate  
Action Plan  
Goal: 5% by  
2015

2012  
**CITY OPS**  
7.2% GHG  
reduction  
Goal: 15% by  
2015

2015  
**CITY OPS**  
15.6% GHG  
reduction  
  
Goal: 40%  
reduction by  
2025

2018  
**CITY OPS**  
15.4% GHG  
Reduction  
  
Goal: 40%  
reduction by  
2025

2012  
**COMMUNITY**  
GHG  
Inventory

2016  
**COMMUNITY**  
0.35% GHG  
reduction  
  
Goal: 30% by  
2025

2018  
**COMMUNITY**  
0.5% GHG  
reduction  
  
Goal: 30% by  
2025

2050 Carbon Neutral





# Phoenix Reducing GHG Emissions

- Methane capture
- City fleet to B20 biodiesel & CNG
- Energy efficiency upgrades
- 22M Kwh solar energy generated
- Sky Train reduces fossil fuel
- 27th Avenue Compost Facility



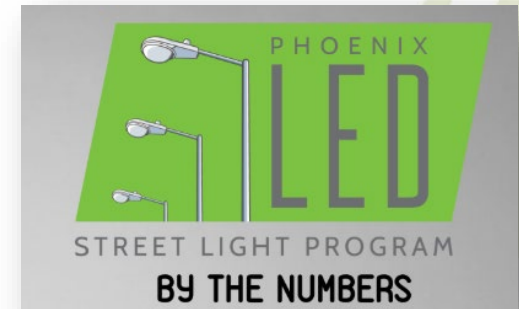


# Phoenix Climate Mitigation Actions

- Activities that reduce the net amount of heat trapping gases.



Driving less/Utilizing Mass Transit



Reduced electricity use



Biogas to Renewable Natural Gas





# Phoenix Climate Adaptation Actions

- Activities to adapt to climate change.

Increasing shade structures/trees



Drought  
Pipeline  
Project



Cooling Centers



# Phoenix is a C40 City

C40  
CITIES

- Phoenix joined in Feb. 2020
  - Global network committed to tackle climate change to increase the environmental and economic wellbeing of its residents.

Mayor Kate Gallego committed Phoenix to the Paris Climate Accord

- Limit global temperature rise to 1.5-2°C by reducing greenhouse gas emissions.

Create C40-compliant Climate Action Plan by 2020



**96** C40  
member cities



**700+**  
million citizens



**1/4**  
of the global economy

Over



**97%**

of C40 cities report already  
feeling the effects of climate  
change, and nearly all are at risk



**ASU** Rob and Melani Walton  
Sustainability Solutions Service  
Arizona State University

# 2018 Community-Scale Greenhouse Gas Emissions Inventory

A comprehensive report  
prepared for



**City of Phoenix**  
April 2020

[sustainabilitysolutions.asu.edu](https://sustainabilitysolutions.asu.edu)

View report: [phoenix.gov/oep/climate](https://phoenix.gov/oep/climate)

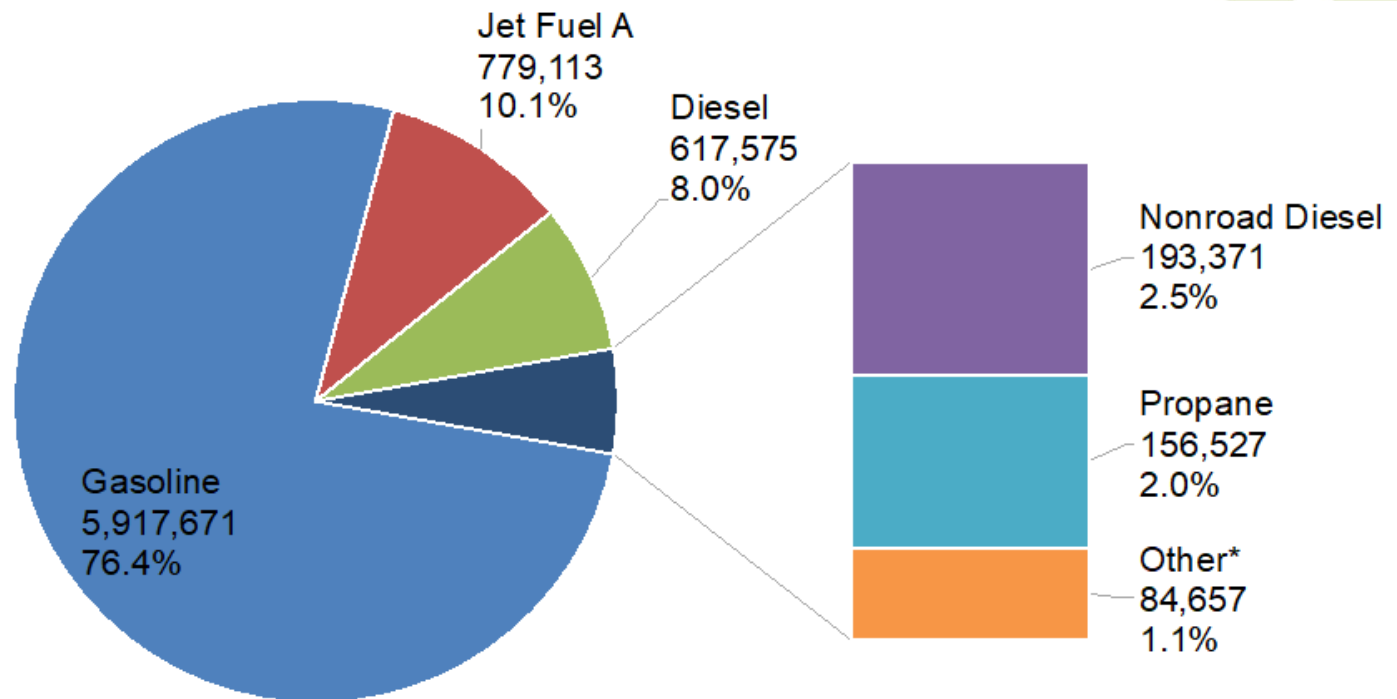




# Transportation Emissions

## Motor vehicle gasoline:

- Largest source of transportation emissions
- 36% of all community-scale emissions



### Label Key

Fuel Type

GHG Emissions (MT CO<sub>2</sub>e)

% of Total Transportation GHG Emissions

\*Other includes minor components of Transportation Sector GHG emissions: biodiesel blends, ethanol blends, CNG, LNG, Aviation Gasoline, and Electricity.



# Most Impactful Changes for Community-Scale

1. A less GHG intensive electricity grid
2. Increased transportation emissions
  - Motor vehicle gasoline use is 36% of all community-scale emissions
  - Increase is proportional to population growth (12.7%)



# Climate Action Plan 2020

- Office of Environmental Programs
  - City Manager
  - Office of Sustainability
  - Climate Liaison from every city department
- Plan Outline
  - Stationary Energy Sector
  - Transportation Sector
  - Waste Sector
  - Equity and Environmental Justice
  - Other Goal Areas for Phoenix
    - 100-Year Water Supply
    - Heat
    - Food Systems
    - Air Quality



# Climate Action Plan 2020

- Future engagement
  - Residents inform and choose approaches best for their community
  - Businesses provide input, ideas, support
- Plan updated every two years
  - GHG emissions inventory
  - Continual improvement
  - Consider new technology, funding, resources







# Potential Actions

- Conduct a Consumption-Based GHG Inventory
- Adaptation and Mitigation Technologies Pilot Program
  - Multi-modal transit studies
  - Clean air zones
- Increase adoption of electric vehicles
- Develop a Regional Resiliency Plan



# Outreach

- Presentations to Village Planning Committees, AZ Green Chamber
- Virtual workshop(s)
- Future engagement opportunities
  - Participate in volunteer Ad Hoc Climate Working Groups comprised of residents, business, and institutions

**ONLINE SURVEY AVAILABLE**  
**Visit: [phoenix.gov/oep/climate](https://phoenix.gov/oep/climate)**  
**Survey open for community feedback!**



# What's Next?

- September
  - Virtual public workshop
  - Draft Plan available for Public Comment
- October
  - Transportation, Infrastructure, and Innovation Council Subcommittee
- November/December
  - Phoenix City Council approval
- 2021
  - Implementation
  - Continual progression and improvement



# Contact Information

- Comments & Questions to:
  - [climate@phoenix.gov](mailto:climate@phoenix.gov)
  - Matthew Potzler
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- Website with more information
  - [phoenix.gov/oep/climate](http://phoenix.gov/oep/climate)

**Thank you!**