

# Climate Action Plan Survey Results 865 Responses



75% or more extremely concerned with:

- ✓ Extreme Temperature & Heat Waves
- ✓ Prolonged and extreme drought



## Agenda



4:30 p.m.	Welcome and	Introduction
-----------	-------------	--------------

4:45 p.m. Overview of Water, Heat, Energy Sectors

5:00 p.m. Sectors Breakout Rooms

5:40 p.m. Report Out

5:55 p.m. Next Steps

6:00 p.m. Adjourn

## Introduction



- 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



## Introduction



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



# **Greenhouse Gas Inventory Sectors**

#### **Stationary Energy**

Emissions mostly from electricity

#### **Transportation**

Emissions mostly from gasoline fuel

#### Waste



# **Greenhouse Gas Inventory Sectors**

## **Stationary Energy**

Emissions mostly from electricity

#### **Transportation**

Emissions mostly from gasoline fuel

#### **Waste**





# **Greenhouse Gas Inventory Sectors**

# Stationary Energy Emissions mostly from electricity

Transportation
Emissions mostly from gasoline fuel

#### Waste





# **Greenhouse Gas Inventory Sectors**

#### **Stationary Energy**

Emissions mostly from electricity

#### **Transportation**

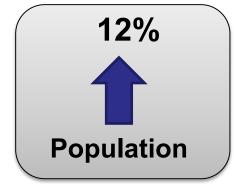
Emissions mostly from gasoline fuel

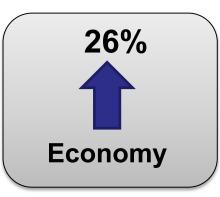
#### Waste

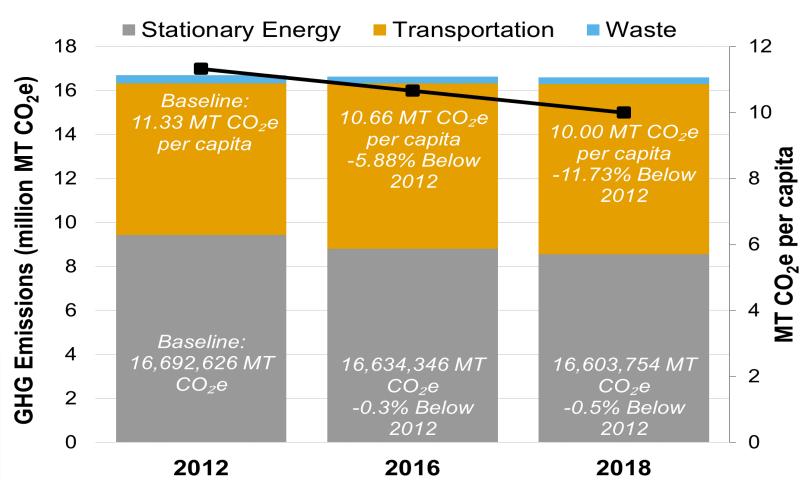




Community-Scale
GHG Inventory







## **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

Community Input





## **Climate Action Planning**







Emission Reduction Goals

Stationary Energy Sector

Transportation Sector

Waste Sector

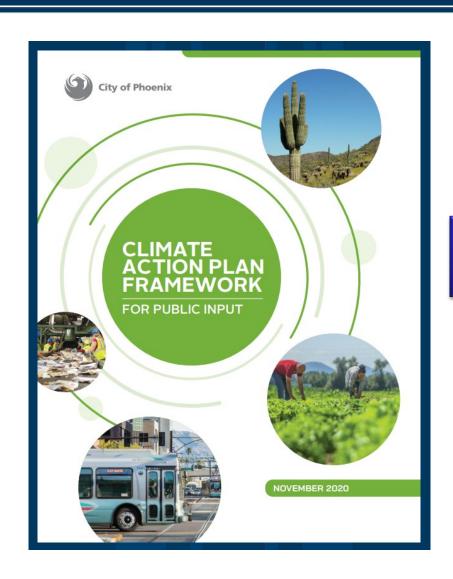




Air Quality
Local Food Systems
Heat
Water

### **Climate Action Plan Framework**

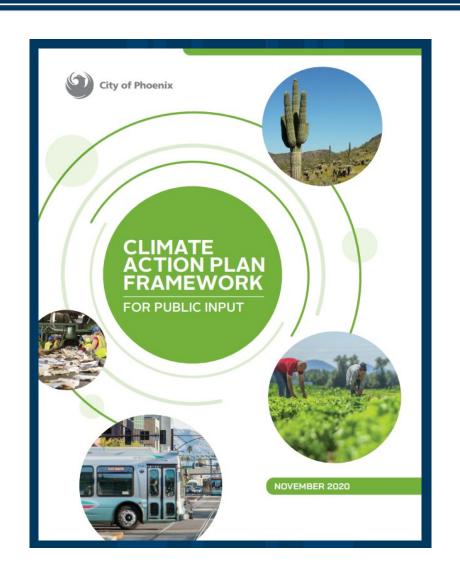




phoenix.gov/oep/climate

### Climate Action Plan Framework





**Sector Goals** 

2050 Goals

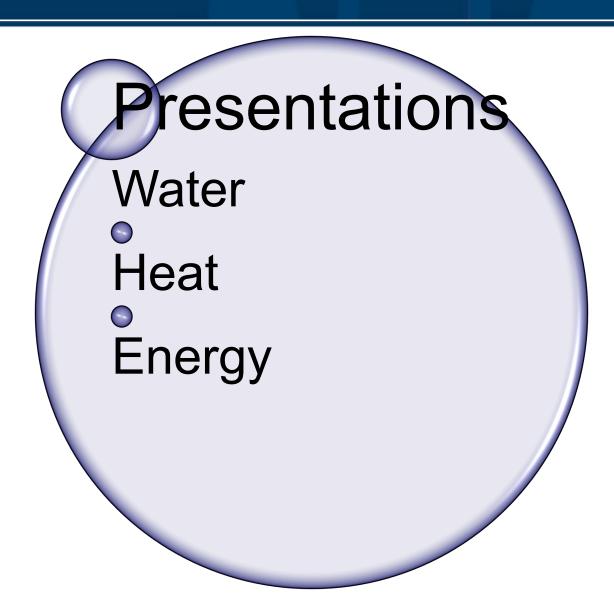
Quickstart Action Examples

Short, Mid, Long-term Goals

**Key Achievements** 

## **Breakout Sector Overviews**





## **Breakout Sector Overviews**



## Presentations

Water

Heat

Energy

**Cynthia** Campbell Water Services Department Water Resources Management Advisor

## **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.

## Water - Quickstart Action Example



Complete construction of Drought Pipeline Project by 2025.





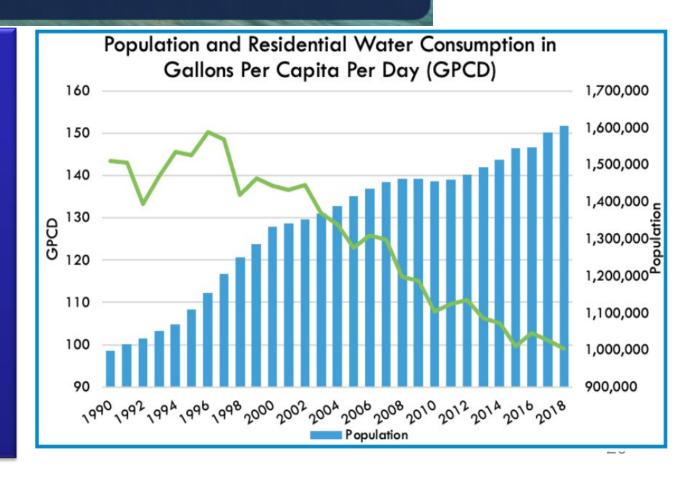
phoenix.gov/waterservices/droughtpipeline

## Water - Key Achievement



## **PHXWATER SMART**

- Leads water conservation efforts
- Distributes tap water to
   1.7 million customers
- Wastewater treatment for 2.5 million residents in 5 valley cities



## **Water - Ongoing Efforts**



- Phoenix Water received a WaterSmart Marketing Grant from the U.S. Bureau of Reclamation to develop the Central Arizona Water Clearinghouse – a transactional discovery tool for all water users in Central Arizona to collaborate on ways to share resources and infrastructure to optimize efficiency of available water supplies
- Phoenix Water continues to collaborate with other parties to improve its water supply portfolio through opportunities to augment supplies
- Phoenix Water continues to study demand management trends to guide targeted water conservation efforts

### **Breakout Sector Overviews**



## Presentations

Water

Heat

Energy

Michael
Hammett
Communications
Office
Interim Deputy
Communications

## **Heat Goals**



2050 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.

## **Heat – Quickstart Example**



• Increase outreach about resources and services to residents to manage heat.



- Comprehensive program providing heat- and waterrelated information.
- phoenix.gov/summer





## **Heat – Key Achievement**



## **Heat Respite Center**

- Human Services led the efforts for and coordinated with multiple City departments to create a Heat Respite Center at the Phoenix Convention Center.
- The hours of operation were 9:00 a.m. to 7:00 p.m., seven days a week and was staffed by City employees.
- Several providers were on site for case management, medical evaluations, HIV/Hepatitis C testing, and flu shots.







## **Heat – Key Achievement**



## Heat Respite Center

- Computer stations with internet access were available for guests to conduct employment and housing searches.
- St. Vincent de Paul was contracted to provide lunch and dinner daily.
- From May 29 through September 30, over 27,000 guests utilized the Heat Respite Center.







### **Breakout Sector Overviews**



## Presentations

Water

Heat

0

**Energy** 

Mark Hartman
Office of
Sustainability
Chief
Sustainability
Officer

## **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 48 City Properties



Rental Car Center Solar Installation: 4.2 Mega-watts



Burton Barr Library: 148 KW



Lake Pleasant Water Treatment Plant - 7.5 MW

## **Breakout Sessions**



- Please mute your device when you are not speaking.
- Please be respectful and courteous to other participants.

## **Report Out**



Quickstart Actions, Ideas, Solutions

Water

Heat

Energy

## **Next Steps**



Public Engagement
Virtual Workshops & Topic-Driven Surveys

Spring 2021

**Public Comment Period** 

Through December 31, 2020

**Complete C40 Pathways Modeling** 

Spring 2021

**Draft Plan Completed** 

Spring 2021

Plan Public Comment Period

**Summer 2021** 

Final Plan to TII Subcommittee & Council

**Fall 2021** 

## **Comments & Questions**



