

# Climate Emergency Declaration Update

October 27, 2020






# Discussion



1. The Climate Emergency Declaration
2. The Path to Carbon Neutrality
3. Mobilization Efforts
4. What's Next?

**FLAGSTAFF IS MOBILIZING TO ADDRESS THE CLIMATE CRISIS**



**The facts**  
We are in a climate emergency. The world is on track to warm by 5° F this century unless we make big changes. Consequences will be severe, especially for vulnerable communities.

**This will take all of us**  
The City will revise its Climate goals to reach carbon neutrality by 2030. This means reducing our community's impact to zero. Families, businesses, neighborhoods and institutions can all be part of the solution.



**What does this mean?**  
A carbon neutral world means more walking and biking; less wasted food and more gardens; more energy from the sun and efficiency in our homes. We can get there!



To learn more: [www.Flagstaff.AZ.gov/Climate](http://www.Flagstaff.AZ.gov/Climate)

# The Climate Emergency Declaration



# Climate Emergency Declaration

1. Dramatic increase in ambition to combat climate change
2. Commits to City-wide climate emergency mobilization
3. Commits to educating residents and especially youth
4. Underscores the need for full community participation
5. Commits to keeping vulnerable communities at the forefront of decision making
6. Joins a nationwide call for mobilization
7. **Advance the Climate Action and Adaptation Plan's goals to achieve carbon neutrality by 2030**
8. Calls on all governments to initiate a transition

# The Path to Carbon Neutrality

# The Path to Carbon Neutrality

- Requires sustained and focused commitment
- Requires re-aligning systems
- Requires bold action and big shifts
  - Reimagine the future
  - Shift organizational strategies and operations
- There are no “silver bullets”
- Accelerate the 2018 Climate Action and Adaptation Plan (CAAP)
- Prescriptive measures in key sectors



# Flagstaff's Greenhouse Gas Emissions

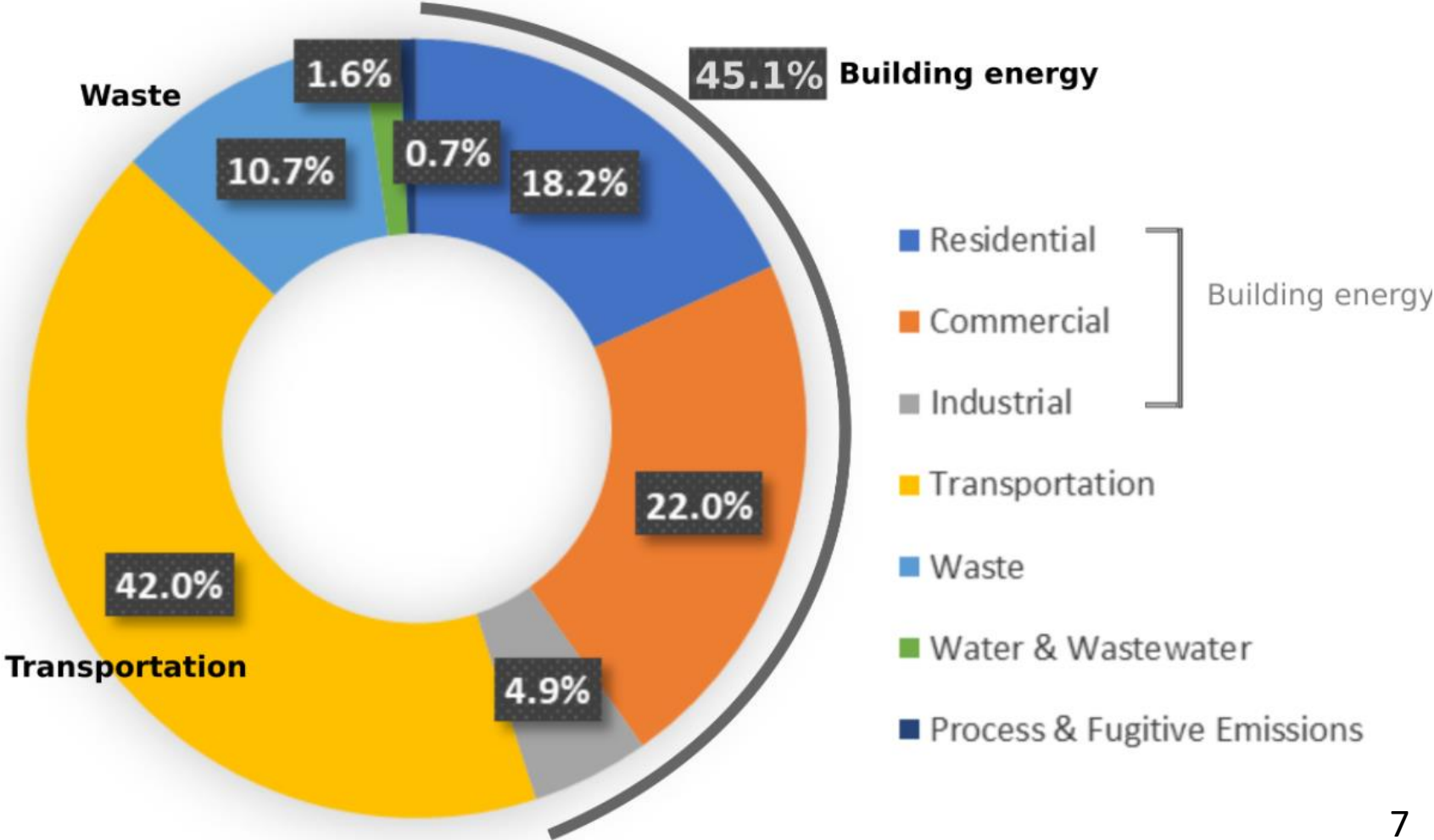
#1  
Powering  
Buildings



#2  
Car Emissions



Community Emissions by Sector: 2016 and 2018 Average



# Mobilization Efforts

# Since the Climate Emergency Declaration ...

Staff have been focusing on:

- Technical analysis and impact scenarios
- Community engagement
- Re-engaging the Climate Action and Adaptation Plan Steering Committee
- Updating 2018 Climate Action and Adaptation Plan
- Determining social cost of carbon





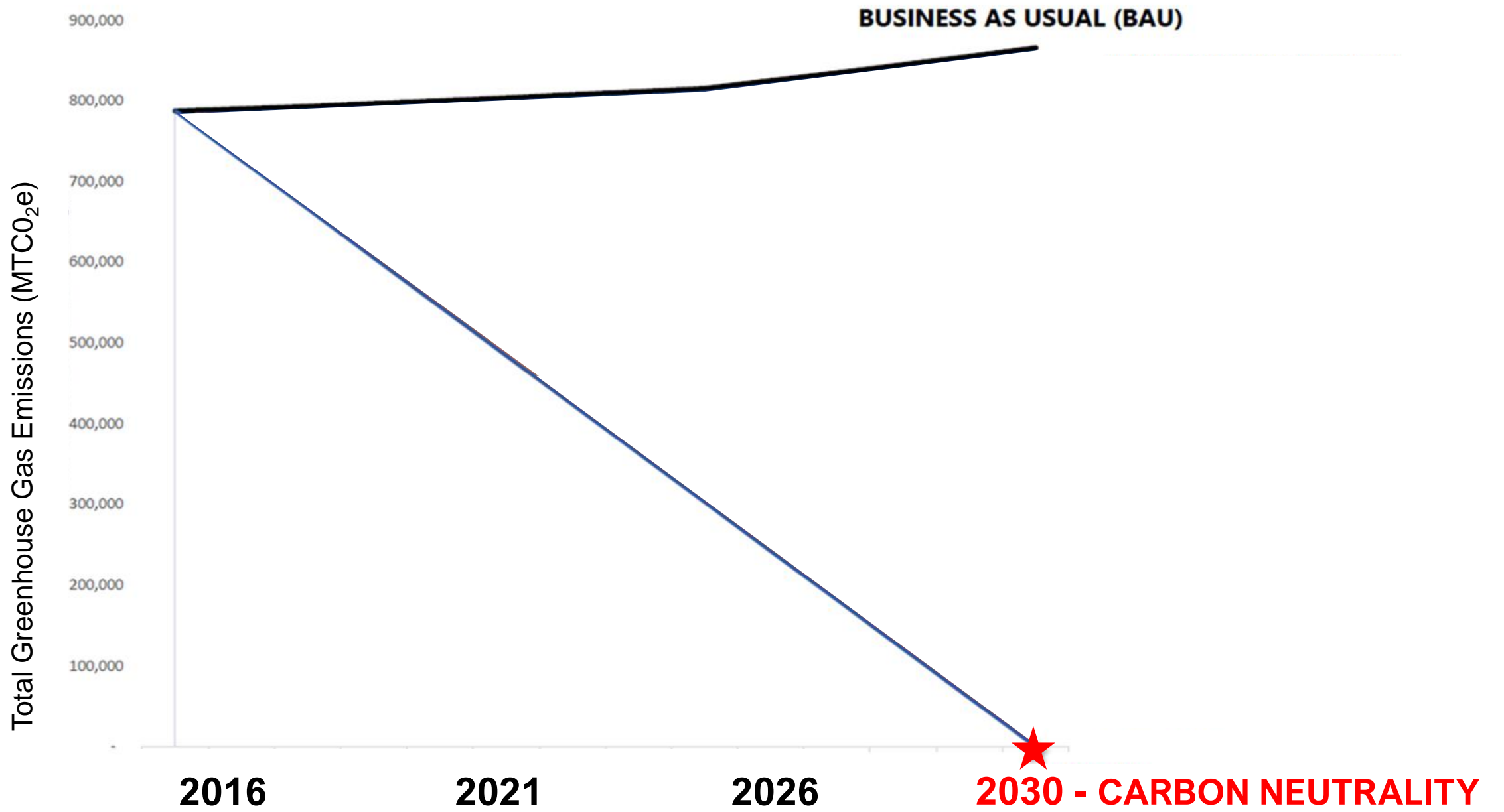
# Technical Analysis



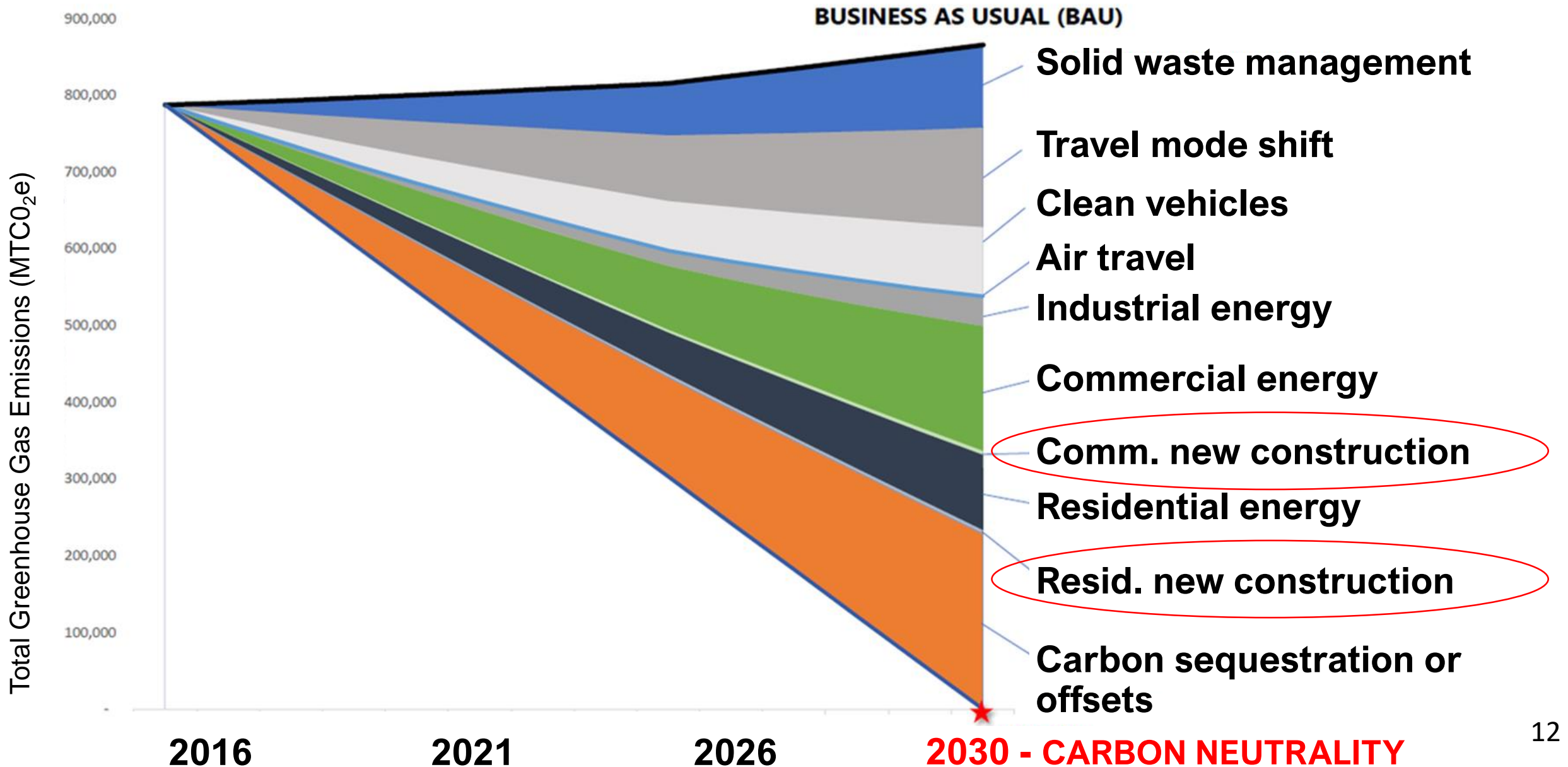
Determining how Flagstaff achieves carbon neutrality by 2030 considers:

- 2016 and 2018 greenhouse gas inventories
- 2018 Climate Action and Adaptation Plan
- 2018 Climate projections for Coconino County
- Regional, national, and international best practices
- Public comment
- City Council direction

# Preliminary Emission Reduction Targets Needed to Achieve Carbon Neutrality



# Preliminary Emission Reduction Targets Needed to Achieve Carbon Neutrality





# Preliminary Emission Reduction Targets Needed to Achieve Carbon Neutrality



**Solid Waste:** Reduce materials sent to the landfill 80%

**Travel Mode Shift:** Reduce vehicle miles traveled an additional 50% by promoting biking, walking, and public transit

**Clean Vehicles:** Reduce fuel consumption by 75% through zero emission vehicles

**Air Travel:** Reduce fuel consumption 15%

**Industrial Energy:** 100% renewable electricity, reduce natural gas and electricity consumption by 50% and 5% respectively

**Commercial Energy:** 100% renewable electricity, reduce natural gas and electricity consumption by 40% and 20% respectively



# Preliminary Emission Reduction Targets Needed to Achieve Carbon Neutrality



**Commercial New Construction:** No natural gas\*

**Residential Energy:** 100% renewable electricity, reduce natural gas and electricity consumption by 70% and 40% respectively

**Residential New Construction:** No natural gas\*

**Carbon Sequestration/Offsets:** 173,367 MTCO<sub>2</sub>e

*\*Banning of natural gas is prohibited in Arizona*



# Community Engagement

- Climate Emergency Forums
- City Commissions presentations
- Community Group presentations
- *Flagstaff Community Forum*
- City staff presentations
- Social media
- Print/web/radio advertising
- Water Services billing



## **The Path to 2030**

**Multimodal transportation will help us get there!**

Share your thoughts on expanding multimodal transportation and other local actions by taking our 10-minute survey.

[www.flagstaff.az.gov/fcf](http://www.flagstaff.az.gov/fcf)





# Community Engagement

## Flagstaff Community Forum Survey

- Walks participants through preliminary emission reduction targets
  - Dives deeper with questions about Flagstaff specific actions within each target sector
- 500+ respondents
- Themes in the **Energy Sector**:
  - Rooftop solar is the highest ranked renewable energy generation model
  - 71% of respondents would support a ballot measure to raise funds for major renewable energy projects
  - 48% of respondents are interested in switching their natural gas appliance to electric



# Community Engagement

## Themes in the **Transportation Sector:**

- 58% of respondents are interested in working remotely 2 days per week
- For commuting and social engagements respondents said they would bike more if there were more bike lanes, safe routes, lanes and streets were clear of debris, and there were manageable bike times

## Themes in the **Waste Sector:**

- 66% of respondents are interested in residential composting service
- 77% of respondents would participate in a food recovery program

## Themes in the **Sequestration Sector:**

- 49% of respondents are interested in keeping a sequestration project local
- 34% of respondents are interested in affordability of a sequestration project



# CAAP Steering Committee

- Reconvened CAAP Steering Committee and invited new community representatives to join
- Have had seven meetings taking a deep dive into preliminary emission reduction targets and exploring specific actions within each target sector
- Discussion themes:
  - Need to create and commit to a “Big Shift” to achieve this goal, especially in an equitable manner
  - Incentivizing actions will be critical in supporting/assisting with the Big Shift (so none are left “behind”)
  - This commitment requires on-going dialogue



# CAAP Steering Committee

## Specific discussion regarding the **Transportation Sector**:

- Transitioning to electric vehicles is integral to reducing emissions, emphasis on EV adoption can be a distraction to other more impactful, equitable and sustainable strategies
- Therefore City resources and focus should be directed to the harder work that will benefit and be *accessible* to the larger community, not just those that can afford electric vehicles
- Rather than thinking about how to subsidize getting another car on the road, electric or not, our focus should be on transforming our city to support biking, walking, public transit and other forms of micro-mobility
- This means **ReThinking Mobility** and will require policy changes related to infill, density, codes, lane conversations, etc.

**What's Next?**



# Plan for Action

- Continue community engagement efforts
- Synthesize feedback from 800+ community members
  - Refine sector based targets
  - Develop specific actions to achieve targets
- Identify which CAAP strategies will need to be accelerated
- Develop a 10-year investment scenario
- Develop funding scenarios
- Bring updated CAAP with refined targets and prioritized actions back to City Council in February
  - The 2030 carbon neutrality goal necessitates that this will be a living document

# In addition to 2018 CAAP actions and strategies ...

- Developing equity review committee
- Partnering with Solar United Neighbors
- Collaborating with City Planning
  - Developing carbon neutrality scoring index for new development
  - Active Transportation Management Plan
- Collaborating with City Capital Improvements
  - Lone Tree Overpass
- Developing Climate Action decision matrix
- Determining the social cost of carbon



# Thank you.

