



PUBLIC MEETING AGENDA

Transportation Commission

MEETING DATE

Tuesday, May 28, 2019
7:30 a.m.

MEETING LOCATION

City of Tempe
Don Cassano Community Room
200. E. Fifth Street, 2nd floor
Tempe, Arizona

AGENDA ITEM	PRESENTER	ACTION or INFORMATION
1. Public Appearances The Transportation Commission welcomes public comment for items listed on this agenda. There is a three-minute time limit per citizen.	Brian Fellows, Commission Chair	Information
2. Approval of Meeting Minutes The Commission will be asked to review and approve meeting minutes from the May 14, 2019 meeting.	Brian Fellows, Commission Chair	Action
3. Climate Action Plan Staff will present the final draft Climate Action Plan.	Braden Kay, City Manager's Office	Information and Possible Action
4. Department & Regional Transportation Updates Staff will provide updates and current issues being discussed at regional transportation and transit agencies.	Engineering & Transportation Department Staff	Information
5. Future Agenda Items Commission may request future agenda items.	Brian Fellows, Commission Chair	Information and Possible Action

According to the Arizona Open Meeting Law, the Transportation Commission may only discuss matters listed on the agenda. The city of Tempe endeavors to make all public meetings accessible to persons with disabilities. With 48 hours advance notice, special assistance is available at public meetings for sight and/or hearing-impaired persons. Please call 350-4311 (voice) or for Relay Users: 711 to request an accommodation to participate in a public meeting.



Minutes
City of Tempe Meeting of the Transportation Commission
May 14, 2019

Minutes of the meeting of Tempe Transportation Commission held on Tuesday, May 14, 2019, 7:30 a.m. in the Tempe Transportation Center, Don Cassano Community Room located at 200 E. Fifth Street, Tempe, Arizona.

(MEMBERS) Present:

Susan Conklu	Lloyd Thomas
Jeremy Browning (via phone)	John Federico
JC Porter	Peter Schelstraete
Paul Hubbell	Pam Goronkin (via phone)
David A. King	Brian Fellows
John Kissinger	Shana Ellis
Ryan Guzy	

(MEMBERS) Absent:

Bonnie Gerepka	Cyndi Streid
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City Staff Present:

Shelly Seyler, Deputy Director Engineering & Transportation	Sue Taaffe, Senior Management Assistant
Chase Walman, Planner II	TaiAnna Yee, Public Information Officer
Joe Clements, Transportation Financial Analyst	Laura Kajfez, Neighborhood Services Specialist
Vanessa Spartan, Planner II	Bonnie Richardson, Principal Planner
Eric Iwersen, Transit Manager	Judi Baumann, City Attorney
Robert Yabes, Principal Planner	Jim Peterson, Lieutenant

Guests Present:

David Sokolowski	Steve Bartel
Jason Simmers	Ted Raper
Anne DeBoard	

Commission Chair Brian Fellows called the meeting to order at 7:30 a.m.

Agenda Item 1 – Public Appearances

Steve Bartel spoke about agenda item #4 and the importance of safety as it relates to the proposed ordinance language.

Ted Raper also spoke about agenda item #4 and the importance of safety as it relates to the proposed ordinance language.

Agenda Item 2 – Minutes

Brian Fellows introduced the minutes of April 23, 2019 meeting of the Transportation Commission and asked for a motion for approval.

Motion: Commissioner Paul Hubbell
Second: Commissioner John Kissinger

Decision: Approved by Commissioners:

Susan Conklu
Jeremy Browning
JC Porter
Paul Hubbell
David A. King
John Kissinger
Ryan Guzy

Lloyd Thomas
John Federico
Peter Schelstraete
Pam Goronkin
Brian Fellows
Shana Ellis

Agenda Item 3 – Bike Hero

Commissioners discussed the eight applications. A motion was made to nominate Dr. Trisalyn Nelson as the 2019 Tempe Bike Hero.

Motion: Commissioner JC Porter
Second: Commissioner Lloyd Thomas

Decision: Approved by Commissioners:

Susan Conklu
Jeremy Browning
JC Porter
Paul Hubbell
David A. King
John Kissinger
Ryan Guzy

Lloyd Thomas
John Federico
Peter Schelstraete
Pam Goronkin
Brian Fellows
Shana Ellis

Agenda Item 4 – Council Bike Safety Working Group Update (Bicycles, E-Bicycles, Human Powered Vehicles, Non-Human Powered Vehicles and Electric Personal Assistive Mobility Devices)

Shelly Seyler presented the draft ordinance related to Bicycles, E-Bicycles, Human Powered Vehicles, Non-Human Powered Vehicles and Electric Personal Assistive Mobility Devices. Topics of the presentation included:

- Current ordinance language
- Definitions of human powered and non-human powered vehicles
- Proposed changes to the specific modes: bicycle, electric bicycle, non-human powered vehicles (scooters), electric personal assistive mobility devices, and human powered vehicles.
- Survey results
- Next steps
 - April 3, 2019 – April 21, 2019 – Public Comment
 - April 9, 2019 – Transportation Commission Meeting
 - April 10, 2019 – Public Meeting
 - May 14, 2019 – Transportation Commission Meeting
 - May 16, 2019 – Work Study Session
 - June 6, 2019 – First Public Hearing
 - June 27, 2019 – Second Public Hearing

Discussion included construction zone language, definitions, regional ordinance differences, yielding in crosswalks and an education campaign.

Agenda Item 5 – Tempe/Mesa Streetcar Feasibility Study Update

Eric Iwersen presented information on the status of the Tempe/Mesa Streetcar Extension Feasibility Study. Topics included:

- Overview and purpose
- Outreach and stakeholders
- Study area
- Initial phase evaluation criteria
- First phase evaluation results
 - Top performing corridors to advance for detailed review
 - Rio Salado Parkway (Tempe, Mesa)
 - Dobson Road (Mesa)
 - Southern Avenue (Tempe, Mesa)
 - Country Club Drive (Mesa)
 - Mill Avenue (Tempe)
 - Rural Road (Tempe)
- Next steps

Discussion included top performing corridors and future modes.

Agenda Item 6 – Grand Canal Multi-use Paths

Chase Walman and Anne DeBoard made a presentation about the Grand Canal Phase I & II projects. Topics of the presentation included:

- Overview
- Grand Canal Phase I
 - Existing conditions
 - Path options
- Grand Canal Phase II
 - Existing conditions
 - Path options
- Next steps
 - Public meetings: May 8 and 11
 - Transportation Commission: May 14
 - Draft PA Report and Preferred Alternatives Review: June 2019
 - Transportation Commission: August 13
 - Sustainability Commission: September 2019
 - Public meetings: August 24 and 28
 - Final Design Completion (Phase I) – Final PA Report (Phase II): Oct/Nov 2019
 - Construction Phase I: Est. to begin Summer 2020
 - Construction Phase II: TBD, Construction funding not yet identified

Discussion included coordination with Union Pacific Railroad.

Agenda Item 7 – Department & Regional Transportation Updates

Susan Conklu informed the Commission that the College/68th Street bridge project is under construction.

Shelly Seyler announced Marilyn DeRosa as the new Engineering & Transportation Director. Shelly also informed the Commission that meetings for the remainder of the year will continue to be in the Don Cassano Community Room.

Agenda Item 8 - Future Agenda Items

- May 28
 - Climate Action Plan
- June 11
 - Transportation Overlay District
 - DTA Update
 - I-10 Broadway Curve P3 Project Update
 - Alameda Drive Streetscape
- July 9
- August 13
 - Speed Limits
 - Transportation Overlay District
 - Grand Canal Multi-use Path Project
 - Scooter Update
 - 3-Foot Bicycle Signage
- September 10
 - Transit Security Update
 - El Paso Multi-use Path Project
 - North/South Railroad Multi-use Path Project
 - Bus Shelter Design
- October 8
 - Annual Report
 - McClintock Drive Project Update
- November 12
 - Annual Report
 - Bus Shelter Design
- December 10
- January 14
 - Commission Business
- February 11
- March 10
- April 14
 - Paid Media Plan
- May 12
 - Bike Hero
 - Capital Improvements Project Update
 - MAG Design Assistance Grants

The next meeting is scheduled for May 28, 2019.

The meeting was adjourned at 8:55 a.m.

Prepared by: Sue Taaffe
Reviewed by: Shelly Seyler

CITY OF TEMPE TRANSPORTATION COMMISSION



STAFF REPORT

AGENDA ITEM 3

TO: City of Tempe Transportation Commission
FROM: Braden Kay, Director of Sustainability (City of Tempe)
SUBJECT: Tempe's Climate Action Plan

Introduction

The City of Tempe began its first Climate Action Plan (CAP) planning process in January 2018. The Office of Sustainability and supporting Departments met with commissions, residents, and key stakeholders. A draft of the plan will be released in the Summer of 2019 and it will be submitted to City Council for approval in the Fall of 2019. The plan will include:

- **New Performance Measures**
The CAP will focus on new performance measures for greenhouse gas (GHG) emissions reduction and for city resilience (targeted on extreme heat).
- **Reduce Tempe's Impact on Climate Change**
Climate change is caused by increasing concentrations of greenhouse gases in the earth's atmosphere. There are many different types of emissions. The emissions commonly targeted in climate action plans are carbon dioxide emissions from fossil fuels used to power cars and provide the electricity that makes a city function.
- **Specific Actions and Investments for Municipal Government and Tempe Community**
The plan will clearly define actions and investments that Tempe can make to reduce emissions and address extreme heat both in city operations, and citywide in partnership with residents, businesses and institutions.
- **Broad Support for Investments**
The Plan will identify short-term investments in current CIP and long-term investments that may require additional bonding capacity. All proposed performance measures, strategies and investments in the CAP will be explicitly linked to council-approved strategic priorities, ensuring that building resilience and reducing GHG emissions will create co-benefits across city priority areas. The process of developing the CAP will

focus on building internal and external support for potential investments and emission reduction policies.

Greenhouse Gas Inventory

Cities produce Greenhouse Gas Emissions. Emissions are estimated by how much gas is put into the atmosphere every year. These emissions are caused by our use of energy, water, transportation, food and the landfill. Tempe has recently estimated its emissions using 2015 data, which will now act as our baseline.

Tempe Municipal GHG Emissions Baseline

In 2015 Tempe emitted the equivalent emissions of 6,096 homes.

- 40,670 metric tons CO₂e, all categories
- 28,723 metric tons CO₂e, energy only

Tempe Community GHG Emissions Baseline

As a community, all residents, business, and institutions in Tempe emitted the equivalent of 549,694 homes electricity use in a year.

- 3,667,560 metric tons CO₂e, all categories
- 2,023,229 metric tons CO₂e, energy only

The data for municipal and community emissions will act as a baseline as Tempe builds a movement within our government and citywide to reduce emissions. The Climate Action Plan will identify investments that will reduce our impact on global emissions.

Overview of Climate Action Plan

Tempe's first Climate Action Plan will include new performance measures, targeted actions, and guiding principles for our second Climate Action Plan.

Performance Measures:

The Climate Action Plan will include the following new performance measures:

- Communitywide Greenhouse gas emissions (Required by Global Compact for Climate and Energy)
- Alternative transportation target (to match the Maricopa County Goal of 40% of all trips are walking, biking and transit)
- Municipal electric vehicle target (Goal of % of all city vehicles that are electric)
- Resilience to extreme heat

Actions:

The Climate Action Plan will get policy approval for Departments and the Office of Sustainability to work on 12 actions including the following highlights:

- **Transportation:** Transportation Demand Management (City works with businesses to improve transportation system)
- **Energy:** Resilient Energy Hubs (Critical buildings can have solar with battery storage)
- **Extreme Heat:** Green Building Code and Green Infrastructure Standards (City works to ensure buildings and infrastructure keep our city cool)

Guiding Principles for Climate Action Plan 2.0

The Office of Sustainability will propose four guiding principles to guide the work of the second Climate Action Plan that we will complete in 2021. These principles are meant to assure stakeholders that we are ready to tackle a broad agenda with our second plan:

- **Enterprise:** Ensuring a business-friendly approach that supports Tempe businesses and creates jobs
- **Equity:** Using Equity in Action as a platform to ensure that our climate action impacts all Tempe residents
- **Evidence:** Creating partnerships with ASU, MAG, SRP, and APS to use an evidence-based approach to climate action
- **Engagement:** Improving how we engage with businesses and residents on climate and sustainability

Conclusion

The Office of Sustainability will release of complete draft of the Climate Action Plan this summer. There will be time for public comment before the plan is sent to Council for approval in the Fall of 2019. Tempe's first Climate Action is an opportunity to work with residents and businesses on collective action. If you have any additional questions, email Dr. Braden Kay at braden_kay@tempe.gov.

Community Climate Action Plan

Tempe Transportation Commission
May 28, 2019



Action Plan



As part of the City's Commitment with the Global Covenant of Mayors:

1. Letter of Intent from Mayor and Council
2. Complete a greenhouse gas emissions inventory
3. Will set a target to reduce GHG emissions
4. Develop Climate Action Plan on how Tempe will reduce GHG emissions

What Does a “Climate Action Plan” look like in Tempe?

- New **goal** for carbon reduction
- New **goal** for resilience to extreme heat
- Menu of **potential investments** (Including projects in current CIP, and projects to put in year 5 before next bond authorization)
- Develop **community support, and data** to support actions and investments (Partnership with ASU)

Looking Forward: Investments



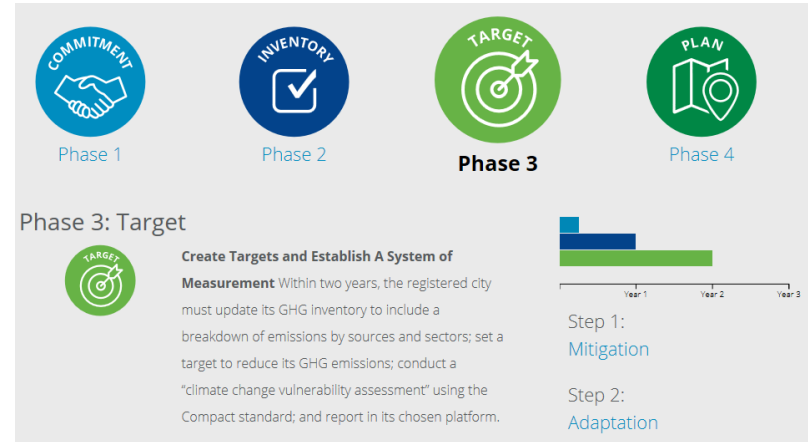
- Utility-scale solar
- Electric fleet
- Urban Core Master Plan
- Water Infrastructure
- Urban Forestry Master Plan
- Tempe Streetcar



Looking Forward: Process



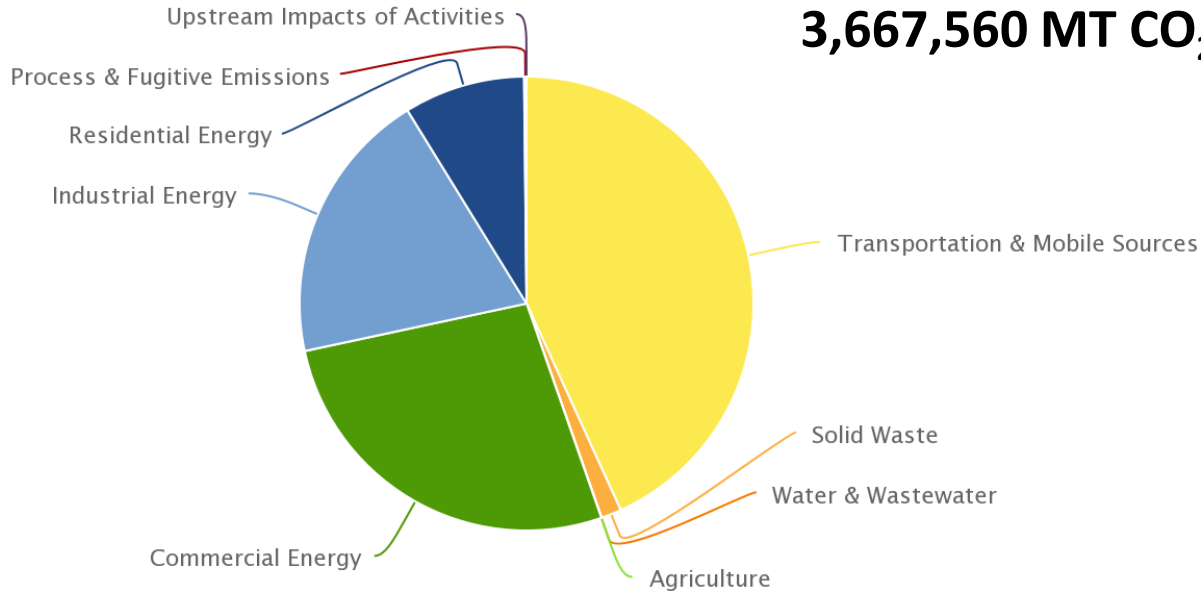
- Climate Action Plan
- Strategic Management Planning Process
- Capital Improvement Plan Budget
- Design, Codes and Standards
- Financing



Tempe's Community Greenhouse Gas Inventory

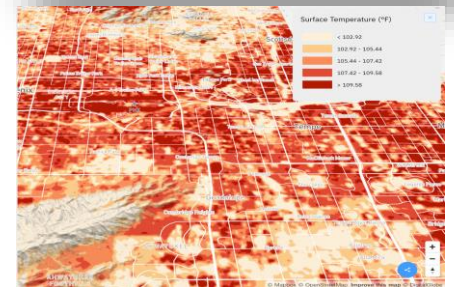
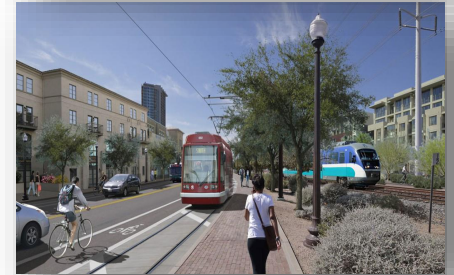
CO₂e across all categories for current inventory

Total Emissions:
3,667,560 MT CO₂e



What Areas Does our Climate Plan Address?

- Emissions reduction
 - Energy
 - Business engagement
 - Renewables
 - Energy efficiency financing
 - Transportation
 - 20 minute city (Demand response, transit and roadway configuration)
 - Electric and autonomous vehicles Resilience (Extreme heat, Drought resilience, Air Quality)
- Resilience
 - Extreme heat
 - Emergency response
 - Building and landscape code
 - Urban forestry



CRAFT 2050: Tempe's First Climate Action

Extreme Heat

- 1 Hire an Emergency Manager that works on the city's resilience to extreme heat.
- 2 Further invest in Urban Forestry Master Plan to provide more shade in parks and along streets.
- 3 Adopt Green Building Code with support for increasing shade and use of cool materials.
- 4 Adopt Green Infrastructure and low-impact development standards.

Energy and Energy Efficiency

- 1 Create a revolving fund to support energy upgrades to businesses and schools in Tempe.
- 2 Pilot solar electric vehicle charging to capture and store energy during peak sunlight hours.
- 3 Create a centralized sustainability platform to help businesses implement energy upgrades.
- 4 Create resilient energy hubs with renewable energy and energy storage.

Transportation

- 1 Invest in electric vehicle charging infrastructure and adopt building code changes that support electric vehicles.
- 2 Prioritize safe and low-stress connections by walking, biking or riding transit in all transportation projects.
- 3 Create an urban core Transportation Demand Management program and a Transportation Management Association.
- 4 Develop an automated mobility readiness guide and policy framework

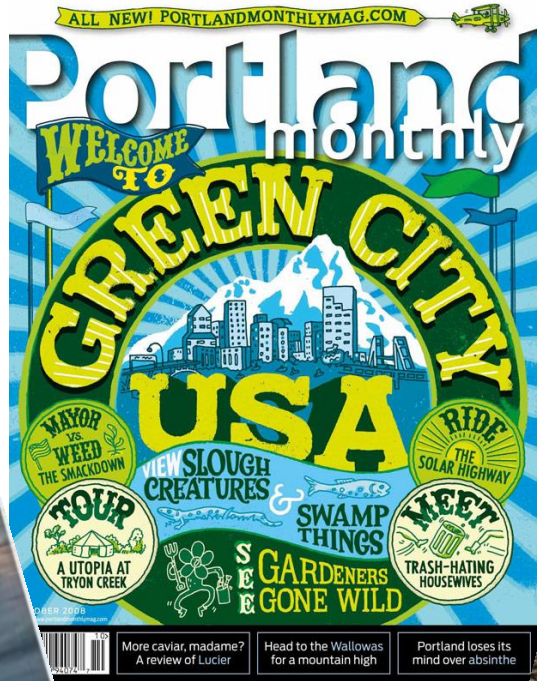


Local Climate Action:

Portland's plan for an equitable,
prosperous, healthy way forward

Car-Free Crossing of the Willamette





1970's Portland = 180 Air Quality Violations





“Urban Renewal”



I-5 Construction



REAL PROGRESS



REAL PROGRESS

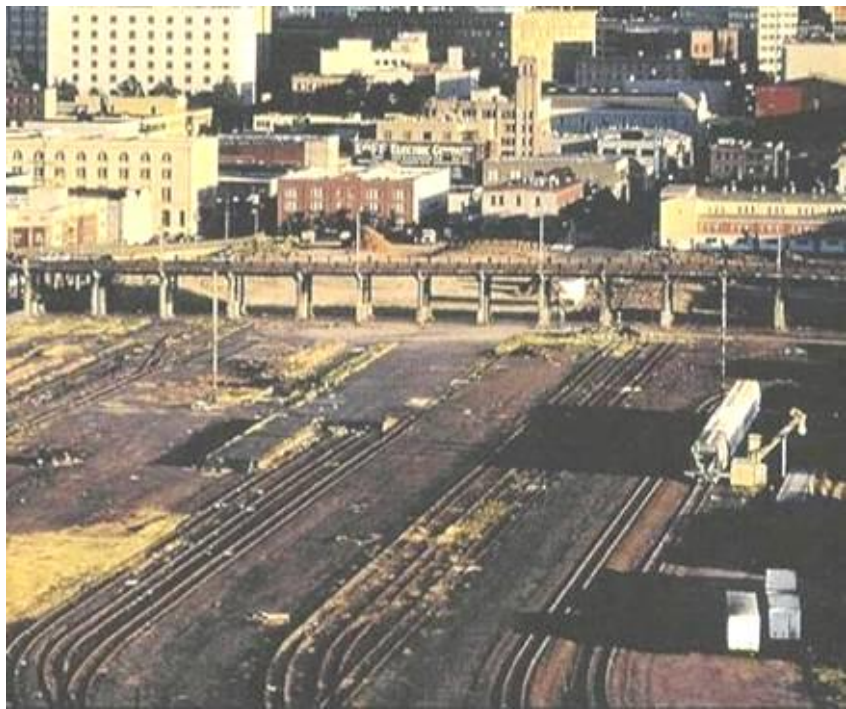


Harbor Drive

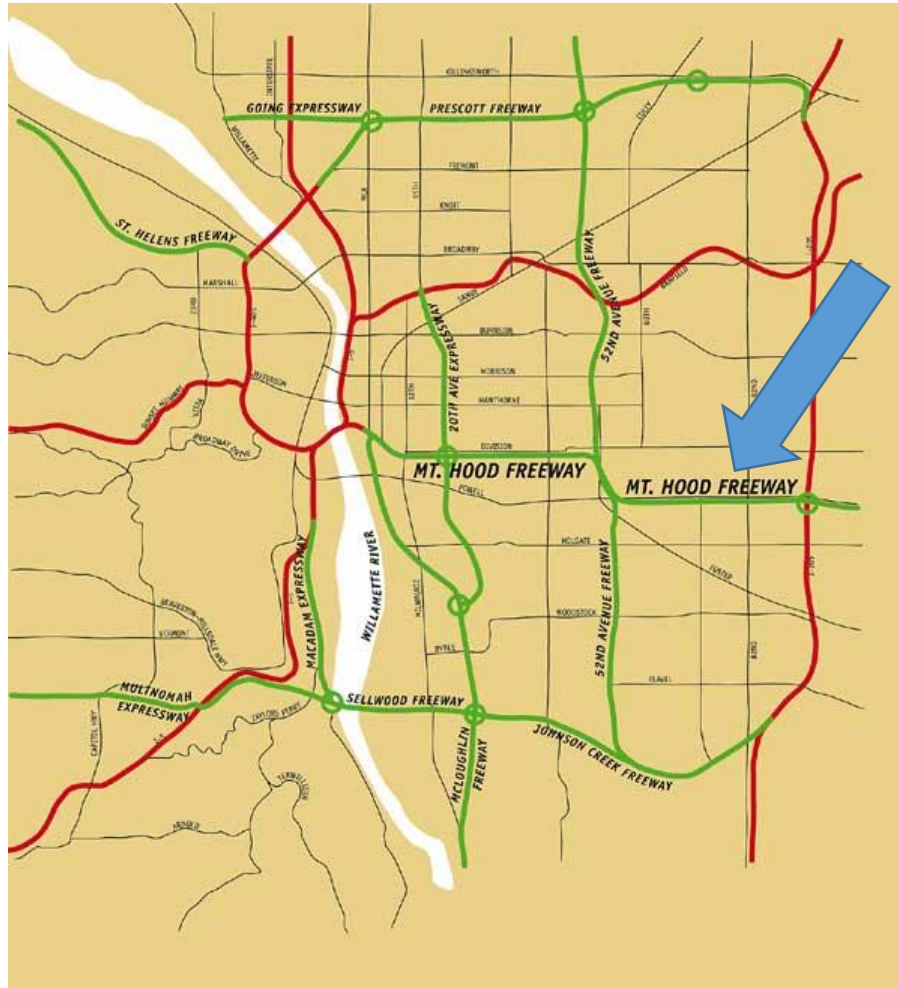


Waterfront Park

REAL PROGRESS



Pearl District



REAL PROGRESS



Mt. Hood Freeway "ghost ramp"



Car-Free Crossing of the Willamette



Municipal Climate Action



Introduction

#4.19 Achieve the City Council goal of carbon neutrality in municipal operations by 2050 with a strategy of 100% renewable energy by 2035.



What are Carbon Emissions and Why is Reducing Them Important?

The burning of fossil fuels (coal, oil, natural gas) releases carbon dioxide and other greenhouse gases which:

- Trap heat
- Warm the atmosphere
- Extreme weather
- Water supply
- Health
- Climate Change



Why It Matters



Why It Matters



Greenhouse Gas Inventory

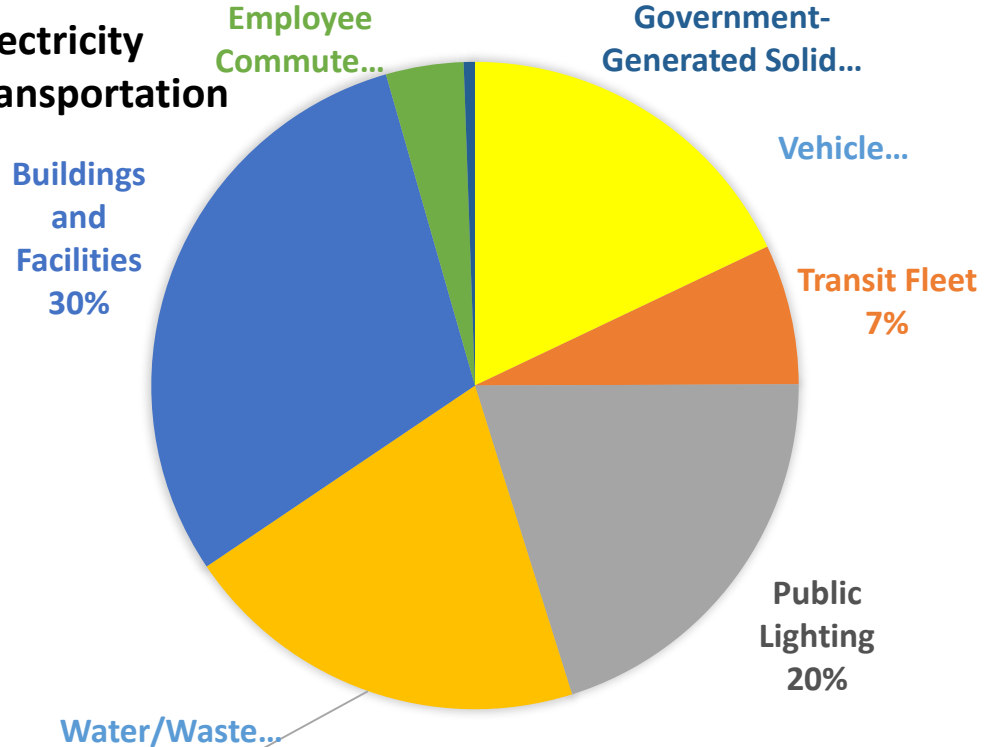
- If you can't measure it you can't manage it
- Sets a baseline to set reduction targets
- Identifies major sources of emissions
- Measures effectiveness of programs over time



Greenhouse Gas Inventory

Total Emissions:
40,670 MT CO₂e

70% electricity
30% transportation

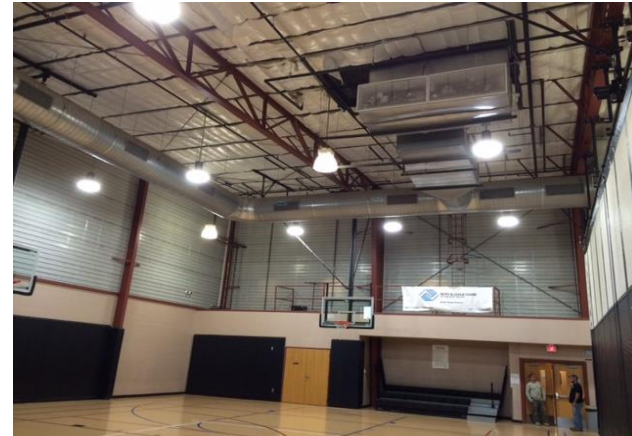


Municipal Energy Investments

Energy improvements in city facilities:

- Efficiency
 - Water treatment
 - Street lights
 - Buildings
 - HVAC
 - Lighting
 - Controls
 - Energy Management System

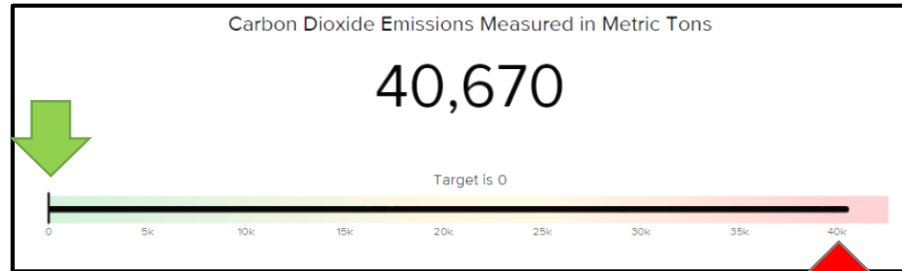
- Renewable Energy
 - Solar Panels installed at 6 city facilities
 - Alternative fuels



What Strategies Will Move Us Forward on Municipal Carbon Neutrality?

- Facilities
- Water Utilities
- Transportation
- Transit
- Fleet

Target
0
(2050)



Baseline
40,670 metric tons
(2015)

Facilities

● Sustainability Plan for Facilities



Water Utilities

- Assessments of Water Treatment Plants & Operations



Transportation & Transit

- LED Streetlights
- Transit Fleet
- Fleet Electrification



Challenges

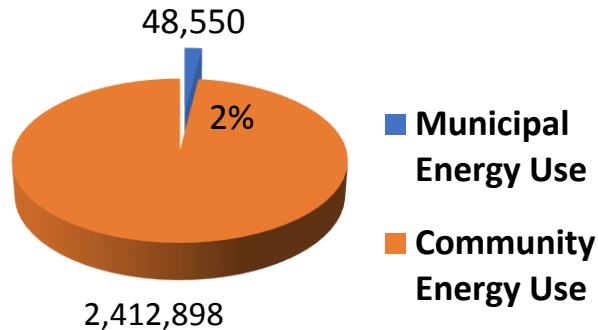
- State and Utility Renewable Policies and Pricing
- Investing in Energy Efficiency
- Acceptance of Electric Buses and Cars
- Need for Advancement in Transportation & Energy Technologies
- Operations & Maintenance of Solar Facilities

Challenges

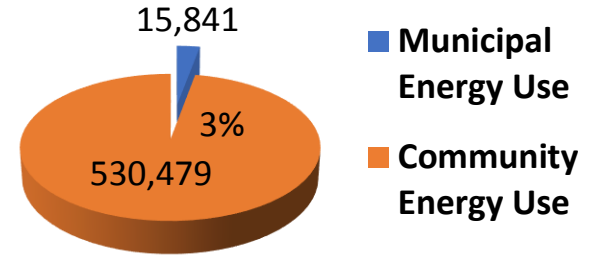


APS & SRP Service Area

SRP Service Area in Tempe
(in MWh)



APS Service Area in Tempe
(in MWh)



- APS: +8 MW utility scale = 100% APS Muni Energy
- SRP: +26 MW utility scale = 100% SRP Muni Energy

CITY OF TEMPE TRANSPORTATION COMMISSION



STAFF REPORT

AGENDA ITEM 5

DATE

May 28, 2019

SUBJECT

Future Agenda Items

PURPOSE

The Chair will request future agenda items from the Commission members.

BACKGROUND

The following future agenda items have been previously identified by the Commission or staff:

- June 11
 - Transportation Overlay District
 - DTA Update
 - I-10 Broadway Curve P3 Project Update
 - Alameda Drive Streetscape
 - Transit Fund Update
- July 9
- August 13
 - Speed Limits
 - Transportation Overlay District
 - Grand Canal Multi-use Path Project
 - Scooter Update
 - 3-Foot Bicycle Signage
- September 10
 - Transit Security Update
 - El Paso Multi-use Path Project
 - North/South Railroad Multi-use Path Project
 - Bus Shelter Design
- October 8
 - Annual Report
 - McClintock Drive Project Update
 - ASU ADA Program
- November 12
 - Annual Report
 - Bus Shelter Design
 - Tempe/Mesa Streetcar Extension Feasibility Study
- December 10
- January 14

- Commission Business
- February 11
- March 10
- April 14
 - Paid Media Plan
- May 12
 - Bike Hero
 - Capital Improvements Project Update
 - MAG Design Assistance Grants

RECOMMENDATION

This item is for information only.

CONTACT

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shelly_seyler@tempe.gov