

# PUBLIC MEETING AGENDA



## Sustainability Commission

### MEETING DATE

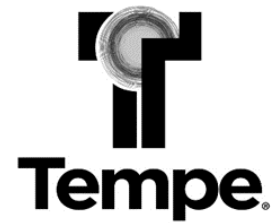
Monday, April 15, 2019  
4:30 p.m.

### MEETING LOCATION

Engineering & Transportation Conference Room  
31 E. 5<sup>th</sup> Street, City Hall, garden level  
Tempe, Arizona

AGENDA ITEM	PRESENTER	ACTION or INFORMATION
<b>1. Public Appearances</b> The Sustainability Commission welcomes public comment for items listed on this agenda. There is a <i>three-minute time limit</i> per citizen.	Kendon Jung, Commission Chair (4:30 – 4:35 pm)	Information
<b>2. Approval of Meeting Minutes</b> The Commission will be asked to review and approve meeting minutes from the March 18, 2019 and March 25, 2019 meetings.	Kendon Jung, Commission Chair (4:35 – 4:40 pm)	Action
<b>3. Trees Matter</b> Aimee Esposito from Trees Matter will provide information.	Aimee Esposito, Executive Director, Trees Matter (4:40 – 5:00 pm)	Information
<b>4. Extreme Heat Actions</b> Staff will provide updates on the Climate Action Plan.	Braden Kay, Sustainability Director (5:00 – 5:40 pm)	Information
<b>5. Extreme Heat Commission Work</b> Vice Chair will provide updates on the retreat re-cap and extreme heat commission work.	Ryan Mores, Commission Vice Chair (5:40 – 6:00 pm)	Information
<b>6. Housekeeping Items</b> Innovation Funds Follow up	Kendon Jung, Commission Chair (6:00 – 6:15 pm)	Information
<b>7. Future Agenda Items</b> Commission may request future agenda items.	Kendon Jung, Commission Chair (6:15 – 6:25 pm)	Information

**According to the Arizona Open Meeting Law, the Sustainability 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 350-2775 (voice) or 350-8400 (TDD) to request an accommodation to participate in a public meeting.**



## Minutes City of Tempe Sustainability Commission March 18, 2019

Minutes of the Tempe Sustainability Commission meeting held on Monday, March 18, 2019, 4:30 p.m., at the Public Works Conference Room, City Hall, 31 E. 5<sup>th</sup> Street, Tempe, Arizona.

**(MEMBERS) Present:**

Kendon Jung (Chair)  
Ryan Mores (Vice Chair)  
Arnim Wiek  
Stephanie Milam-Edwards  
Gretchen Reinhardt

Serita Sulzman  
Barbie Burke  
Steven Russell  
Sukki Jahnke  
Reyna Olvey

**(MEMBERS) Absent:**

John F. Kane

**City Staff Present:**

Marilyn DeRosa, Engineering Deputy Director/City Engineer  
Braden Kay, Sustainability Department Director  
Jennifer Svetichan, Administrative Supervisor  
Justin Bern, Environmental Services Program Supervisor  
Oddvar Tviet, Environmental Quality Specialist

**Guests Present:**

Allie McGranaghan, ASU  
Jeanne Megan, ASU  
Megan Marshall, ASU, City of Tempe  
Jim Moule, Sierra Club, IPL  
Karen Conta, Sierra Club  
Shandiin Yessilth, ASU  
Ghaisani Ayuningtyas, ASU  
Jake Swanson, Resident

Chair Jung called the meeting to order at 4:30 p.m.

**Agenda Item 1 – Public Appearance**

Chair Jung asked the guests to introduce themselves.

**Agenda Item 2 – Approval of Meeting Minutes**

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Chair Jung introduced the minutes of the February 11, 2019 meeting. Commissioner Russell made a motion to approve the minutes. Vice Chair Mores Seconded.

**Motion:** Commissioner Russell

**Second:** Vice Chair Mores

**Decision:** Approved 10-0, all present approved

Voted to Approve:

Kendon Jung (Chair)  
Ryan Mores (Vice Chair)  
Reyna Olvey  
Arnim Wiek  
Stephanie Milam-Edwards  
Gretchen Reinhardt  
Serita Sulzman  
Barbie Burke  
Steven Russell  
Sukki Jahnke

All present approved.

### **Agenda Item 3 – Chair Update**

Chair Jung reviewed the meeting agenda.

### **Agenda Item 4 – Tempe Air Quality**

Justin Bern, the City's Environmental Services Program Supervisor, introduced himself and gave a follow up presentation for the Commission as a result of the solicited questions that resulted from the presentation he gave at the January Commission meeting.

He discussed:

- Tempe air quality monitoring stations that are part of a larger network of county stations that are set up throughout Maricopa County.
- They are used as a tool for monitoring air quality in urban areas and for making decision on air quality planning, such as no burn days, controlled release of emissions and dust control measures.
- Reports are generated and reported to the Federal Government
- The City's goals to practice best management on compliance

City Engineer Marilyn DeRosa reiterated that we do not have an air quality unit that sets a vision and makes goals for air quality. We have a program that is responsible for regulations and what we need to comply with, and then we make sure that we comply with those rules.

Sustainability Director Braden Kay included that the Commission can't address changing the standards used by the county but can help with a vision for the city by providing recommendations to the council working group that is discussing on air quality.

The commission asked and commented as follows:

- If there is any information on greenhouse gases? Justin referred them to the chart that was located within his presentation and pointed out the information regarding greenhouse gases.
- Will the Air Quality PowerPoint presentation be placed on the city's website? Staff will add it.

### **5. Update on Climate Action Plan**

Sustainability Director Braden Kay reviewed the Climate Action Plan (CAP) energy measures that will be discussed at next weeks Sustainability Commission retreat. The goal is to draft a CAP recommendation this summer and present it to Council in the fall.

Braden informed the Commission that the intent of this meeting was to review the content of the four energy actions and then at the retreat, the Commission will ultimately decide which actions of the three initiatives: Transportation, Energy and Extreme Heat to champion for the next 12 months.

The four possible energy actions are:

#1 – Create a revolving fund to support energy upgrades to businesses and schools in Tempe. Braden explained that there are 2 ways to be more renewable: Use less energy overall or become more efficient through technology and investments. The strategies to support those actions are 1) start the process of changing your behavior to use less energy (cheapest) 2) have funds available to invest in technology businesses to make them more energy efficient, and 3) change the source of energy (most expensive). The community has started a behavior change with various programs and APS and SRP have behavior change programs in place. The barrier to entry of investing in more energy efficient technology is having the available funds. Easier access to capital will lower the barrier for people investing into technology. A pilot program exists with a revolving fund with the grease co-op program with the help of the innovation fund but need to find additional funds to expand opportunities. Partnering opportunities are available with the Chamber and Local First. The important part would be identifying the best places to give the money to so that it operates appropriately and figuring out what those qualifying metrics are. This a critical factor to the success of the program.

The commission asked and commented as follows:

- How was the loan fund working with the grease co-op and if any loans had been made? Braden said he was not sure but would follow up with Environmental services and report back to the Commission.
- Other cities have done this successfully, but a majority have done them with major federal funding
- What would be the goal? The Commission will need to set the goals
- How did the City of Phoenix prioritize its projects? There are a lot of reports available at Phoenix and ASU that can dive deeper into the positive and negatives of the Phoenix.

#2 – Pilot solar electric vehicle charging to store electricity during peak sunlight for use in homes. Braden said we could make our total grid use cleaner if we can figure out how to use more daytime energy. There is an option to pilot this to see what it will take for people, residents and businesses, to charge during the day. Maybe do a study with ASU to see what would incentivize people and businesses. There are opportunities for learning what this would look like to be successful.

The commission commented as follows:

- Consider the concept of pre-cooling houses and facilities
- People are embracing this concept in homes and with vehicles

#3 – Create a centralized sustainability platform to help businesses implement energy upgrades. This effort would help businesses integrate more easily beyond the Green Building Initiative and Sustainability Pledge, the utility

companies and outreach entities. This could allow for those conversations to happen efficiently so everyone is on the same page and using the mechanisms that are available to them.

The commission asked and commented as follows:

- This is a resource that the Chamber of Commerce has for its members, but this effort would help expand that program
- The website would be the main driver of this plan and then pull it all together so to make the connection to the initiative.

#4 – Create resilient energy hubs with renewable energy and energy storage. Braden said this effort is gaining popularity not only as a backup energy source for fire and police stations but also for first refuge areas for cooling such as recreation centers, the library, schools and churches. In addition to the fossil fuel infrastructure that is already there, this will be coupling solar and battery that will act as this resilient energy back up source. This will depend on day use efforts by the community but also opens the conversations with the utilities that is important, but it needs to get messaged in the right way.

The commission asked and commented as follows:

- Battery technology is evolving, and it may be somewhere to put the Commission's focus as well.
- It is the utility policy that is blocking this, and the focus is changing that policy.

#### **Agenda Item 6 – State of the Neighborhoods Sustainability Awards**

The Commission brought forth 3 nominations for the Sustainability Awards. The Commission will vote on the nominations to recommend to Council during the retreat.

1. Commissioner Jahnke nominated Refresh Glass
2. Commissioner Miliam-Edwards nominated the Broadmor Elementary garden
3. Vice Chair Mores nominated Desert Roots Kitchen

#### **Agenda Item 7 – Housekeeping Items**

Chair Jung said the intent of the retreat is to discuss the Climate Action Plan opportunities that were reviewed at this meeting and prior meetings and decide on one item from each area to move forward as a Commission.

Vice Chair Mores reviewed the Pool of Tools document with Commission which listed out the potential tools that could be used during the retreat to assist in their decision-making process for the Climate Action Plan. It was not a necessarily a complete list and welcomed other ideas.

#### **Agenda Item 8 – Future Agenda Items**

None

A motion was made to adjourn.

All approved 10 – 0

**Motion:** Commissioner Burke

**Second:** Commissioner Milam-Edwards

**Decision:** Approved

Kendon Jung (Chair)

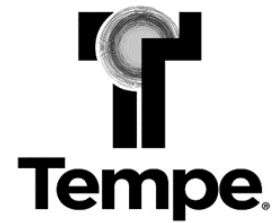
Ryan Mores (Vice Chair)

Arnim Wiek

Stephanie Milam-Edwards  
Gretchen Reinhardt  
Serita Sulzman  
Barbie Burke  
Steven Russell  
Sukki Jahnke  
Reyna Olvey

The meeting was adjourned at 6:14 pm.

Prepared by: Jennifer Svetichan  
Reviewed by: Marilyn DeRosa



## Minutes City of Tempe Sustainability Commission Retreat March 25, 2019

Minutes of the Tempe Sustainability Commission retreat meeting held on Monday, March 25, 2019, 4:00 p.m., at Hatton Hall, 34 E. 7<sup>th</sup> Street, Tempe, Arizona.

**(MEMBERS) Present:**

Kendon Jung (Chair)  
Ryan Mores (Vice Chair)  
Arnim Wiek  
Stephanie Milam-Edwards

Serita Sulzman  
Barbie Burke  
Steven Russell  
Gretchen Reinhardt

**(MEMBERS) Absent:**

Sukki Jahnke  
John Kane  
Reyna Olvey

**City Staff Present:**

Braden Kay, Sustainability Director  
Marilyn DeRosa, Deputy Public Works Director - Engineering  
Grace DelMonte Kelly, Energy Management Coordinator  
Robert Yabes, Principal Planner

**Guests Present:**

Lauren Kuby, Councilmember  
Jennifer Adams, Council member  
Corey Woods  
Vincent Herre, ASU  
Mackenzie Acosta, ASU

Chair Jung called the meeting to order at 4:10 p.m.

**Agenda Item 1 – Public Appearance**

There were none.

**Agenda Item 2 – Sustainability Awards**

Chair Jung stated there were two nominations for the Sustainability Awards for a Business. The Commission voted by ballot to select the business that would received the sustainability award.

**Agenda Item 3 – Overview /Introduction**

Chair Jung & Vice Chair Mores gave a re-cap of the Climate Action Plan public open house and an overview of the retreat activities the commission would participate in over the next few hours.

#### **Agenda Item 4– Introduction of the Facilitator**

Sustainability Director Braden Kay introduced Laura Royal, facilitator of the workshop.

#### **Agenda Item 5 - Climate Action Plan Focus Areas**

The commissioners broke out into three groups to focus on one area: (1) extreme heat, (2) energy, and (3) transportation.

#### **Agenda Item 6 – Workgroup Discussion**

The commissioners continued to work on the focus areas: (1) extreme heat, (2) energy, and (3) transportation.

#### **Agenda Item 7 – Workgroup Report-out**

The commissioners presented their actions and their implementation plan for three Climate Action Plan actions.

##### **1. TRANSPORTATION:** Steve Russell and Serita Sulzman

*Create an Urban Core Transportation Demand Management program and a Transportation Demand Management Association.*

##### Presentation

- Intro: Current state, pending problem
  - Problem:
    - Projected 2.3 mil pop growth - city staff (internal review)
- Start Transportation Management Association
  - Coalition of entities that support sustainable transportation in Tempe
    - Voluntary compliance "in spirit"
    - Opportunity to pilot some TDM plans
      - I.e. Scoop
    - Develop messaging around program/benefits
      - More involved, the better our potential discounts (increased buying power, negotiation power)
  - Start with Downtown Tempe Authority
  - Build support in local businesses
  - Engage with Council
- Ordinance - in Transit Overlay District plan
  - October 2019
  - Council keep an eye out
  - Pass --> move into program development
    - Ordinance
      - Attenuate demand for single occupancy vehicles
      - Anticipate future needs
      - Based on County ordinance



- Footprint: TOD area
  - What will do:
    - Hire staff
    - Create new policies aimed at:
      - Reduce SO vehicle use
      - Increase of sustainable transport
    - Enforce mandatory compliance on all new-builds in TOD area
    - Sell Voluntary compliance
    - Create TMA
  - Why?
    - Better transit use
    - Incentivize reduction of SO vehicles
- Transportation Demand Management program
  - Develop leadership and org structure
  - Grow engagement
  - Plan implementation
    - Plan program acquisition
    - Identify processes,
  - Ordinance compliance
    - Messaging/marketing of benefits
    - Increase voluntary compliance
    - Enforce mandatory compliance
- Tools
  - Stakeholder engagement
    - Build TMA
  - Council engagement
  - Partnerships
    - Businesses
    - DTA
- Close

Implementation plan:

Year 1	<p>Form TMA</p> <ul style="list-style-type: none"> <li>• Stakeholders           <ul style="list-style-type: none"> <li>○ DTA</li> <li>○ Transport commission</li> <li>○ ASU faculty:               <ul style="list-style-type: none"> <li>• David King</li> <li>• Deborah Salon</li> </ul> </li> </ul> </li> <li>• Local businesses</li> <li>• Build support w/ council</li> <li>• Scoop - app</li> </ul> <p>TOD ordinance</p> <ul style="list-style-type: none"> <li>• October 2019</li> <li>• Be prepared to mobilize</li> <li>• Either:           <ul style="list-style-type: none"> <li>○ Pass council and we move into development</li> <li>○ Or, prepare to engage council, research, build community support</li> </ul> </li> </ul>
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	<p>TDM program</p> <ul style="list-style-type: none"> <li>• Develop foundational leadership</li> <li>• Plan out program infrastructure</li> </ul>
Year 2	<p>TDM program</p> <ul style="list-style-type: none"> <li>• Build out program infrastructure</li> <li>• Grow engagement</li> <li>• Plan program implementation (timeline to add services)</li> <li>• Begin to grow programs</li> </ul> <p>TOD ordinance</p> <ul style="list-style-type: none"> <li>• Increase voluntary compliance</li> <li>• Mandatory enforcement</li> </ul>
Year 3	<p>TDM program</p> <ul style="list-style-type: none"> <li>• Develop programs</li> <li>• More sustainable transportation system</li> <li>• Significant decrease of carbon emissions</li> <li>• Better air quality</li> </ul>

## 2. RESILIENCE TO EXTREME HEAT: Arnim Wiek & Ryan Mores

*Adopt Green Building Code with support for increasing shade and use of cool materials and adopt Green Infrastructure and low-impact development standards.*

### Presentation:

Vision: Healthy, livable, 'cool' city!

Action: adoption of ordinances (Green Building Code + Green Infrastructure Standards)

TSC Strategy:

- City Council
  - 'The public'
    - Young adults (II)
    - Other residents (III)
  - 'Green' designers + planners + engineers (I)
  - Developers
- I: Business opportunities ← → city staff engagement
- II: Future & taking action (Greta) ← → city council meetings (groups & visuals)
- III: Quality of life ← → being vocal (letters, meetings), 'Roadshow'

### Notes:

Page A: Resilience to Extreme Heat

- *Green code + standards*
  - *Green Building + Green Infrastructure*
- Future of our city
  - Next generation (students, youth, etc.)

- Present
  - Increase quality of life *now*
- Benefits
  - Urban cooling (cool materials)
  - Shade
  - Stormwater use for cooling
- Co-benefits
  - Biodiversity
  - Aesthetics
  - Increase green space
  - Reduce potable water use
  - Flood mitigation

\*The following notes follow this formatting structure:

- 1) *Whom? (stakeholder) → [students, residents, facility managers, designers/planners/etc.]*
- 2) *What? (benefits + action)*
  - a) *Benefits*
  - b) *Action*
- 3) *How? (which 'tool' to use)*
  - 1) Stakeholder:
    - a) Designers & Planners & Architects & Engineers (are already on-board w/ being 'green')
  - 2) Benefits+Action:
    - a) Benefits: They already know the benefits!: Business opportunities (develops a market for them when City Council adopts relevant GB/GI code)
    - b) Action: Informal communication with city council members at professional events (city events, chamber of commerce, etc.)
  - 3) Tools:
    - a) City staff engagement
      - i) briefings/strategy building
      - ii) how/when to best engage
      - iii) The above professionals
- 1) Stakeholder:
  - a) Students/young adults
- 2) Benefits+Action:
  - a) Benefits: future/stewardship/long-term livability
  - b) Action: taking direct action w/ city leaders
- 3) Tools:
  - a) peers/social media
  - b) Students groups/teams
  - c) visuals/cartoons (short 1-2 min snippets)
  - d) Games/apps/technology
  - e) Pilot project w/ Student Sustainability Officer program at schools
  - f) + bringing students to City Council meetings (prepare/coach students)

- 1) Stakeholder:
  - a) Residents
- 2) Benefits+Action:
  - a) Benefits: quality of life/livability (enjoy outdoors - walking/biking/playing at park/outdoor family life)
  - b) Action: raise voices, write letters, attend City Council mtgs, etc. (utilize Neighborhood Associations, HOAs, community centers, etc.)
- 3) Tools:
  - a) "Tempe Today" flier
  - b) Online communication (Tempe PIO)
  - c) "Roadshow" (storytelling)
  - d) Mobile Solution Theater (persuasive visuals)

## 2. ENERGY: Kendon Jung & Stephanie Milam-Edwards

*Create Resilient Energy hubs with renewable energy and energy storage.*

### Define the Action

- Policy Change and Pilots –
  - To complete this action, policies will need to be changed and pilots done as a roll out of the programs with the idea that all citizens will have a fully-functional location in times of crisis.
- Possible places of refuge:
  - Fire stations, schools, community centers, hospitals, police stations, libraries, faith-based centers
- Define places of refuge
  - Buildings that can generate 125% of needs daily from renewable energy resources
    - Can store energy generated for night time use or off grid
- Why this action is important:
  - Energy to continue to provide critical services that keep our communities safe and healthy in times of crisis.
  - Equity for all citizens of Tempe regardless of status.

What is needed:

### SRP Policy

- Board (SRP) decides on rate plans, sets limits.
  - Work with board members Paul Hirt, Corey Hawkey, Nick Brown, Randy Miller, find out others on board. 75% in winter currently, rate structure over 75% higher.
- Pricing principles for communities of refuge
- Schools
  - PTO
  - Boards
  - Neighborhood Associations
- Hospitals
  - Maricopa County department of health -Epidemiology
  - Tempe St Luke's
  - Urgent Care

City Investment:

- Council Budget \$150K per year

- Pilot for areas (schools, hospitals)
- Budget to support phases
- Council to go to SRP for the pilot's purposes.
- House/Senate representative – advocacy
- Sandra Kennedy

#### Private Industry

- Valley companies for solar /successful solar storage

#### ASU

- Different technology
- Blue Planet

#### Code: review plans

- Electrical and fire hazards
- Ensure they meet safety standards

#### City Investments (look at Baltimore's resilient hubs)

#### Tentative Timeline:

#### Galvanize Support

- April 1, 2019 – December 31, 2019
- Legwork for involving stakeholders that can help to change the overall policy of SRP and guide future City policy.
- Identify...
  - *Private companies*
  - *Best Practices*
- Meet council → draft action → budgets assembled

#### Drafts / Pilot Creation

- January 1, 2020 – December 2020
- Draft policy
- Pilot- type created
- Locations selected
- Phase #1 Pilots Begin July 2020

#### Hooray – Implementation

- January 1, 2021 – completion
- Pilots reviewed and evaluated
- Phase #2 of program begins - July 2021
- Continue in phases until all citizens of Tempe have a "Place of Refuge" within walking distance of their home.

#### **Agenda Item 8 – Wrap up and Plan of Actions**

Commission will revisit these three actions and work on them in the coming months.

#### **Agenda Item 9 – Adjourn**

The meeting was adjourned at 8:00 pm.

Prepared by: Steve Russell, Ryan Mores, Stephanie Milam-Edwards & Grace DeMonte Kelly

Reviewed by: Braden Kay





## About Trees Matter *Who We Are*

our mission...

"to inspire and promote  
an increased tree canopy  
in the valley"



## About Trees Matter

### *Who We Are: Staff*







# About Trees Matter

## *What We Do: Trees for Schools*



### My Tree Activity Book

Every day you may pass by trees, do you have a favorite tree?  
Let's pick a tree and take a closer look!

**PICK A TREE:** Find a tree you want to learn more about.

**DRAW THE TREE:**

**CAN YOU DESCRIBE THE TREE?** This tree is (use 10 words):

1. _____	6. _____
2. _____	7. _____
3. _____	8. _____
4. _____	9. _____
5. _____	10. _____

Compliant with Science Standard Grade 3/Strand 4: Life Science



## About Trees Matter

### ***What We Do: Volunteer Program***





# About Trees Matter

## *What We Do: SRP Free Tree Program*





# About Trees Matter Resources:

## Ask An Arborist

<https://www.facebook.com/groups/askanarborist/>



## Tree Database



Starleaf / Western / Canyon Hackberry  
*Celtis reticulata*



Oleander  
*Nerium oleander*



Oranges  
*Citrus x sinensis*



Palo Blanco  
*Mariosousa willardiana*



Pomegranate  
*Punica granatum*



Purple Orchid Tree  
*Bauhinia variegata*

## Advocacy Page



### Advocacy Page

The purpose of this advocacy page is to provide you with the resources needed to address your tree related concerns within the following sectors:

- Residential
- Private
- Public

The goal is to make it possible for anyone to make their voice heard and to make real change where they see fit. This advocacy guide makes it easy to do just that. See below.



# About Trees Matter

## *What We Do: Urban Food Forest Program*

