



Minutes City of Tempe Sustainability Commission January 19, 2016

Minutes of the Tempe Sustainability Commission held on Tuesday, January 19, 2016, 4:30 p.m., at the Public Works Conference Room, 31 E. 5th Street, Garden Level, Tempe, Arizona.

(MEMBERS) Present:

John F. Kane (Chair)
Kendon Jung (Vice Chair)
Jessica Hauer
Mary Ann Miller
Colin Tetreault

Alix Monty
Aaron Redman
Corey Hawkey
Gretchen Reinhardt
Carol Hu

(MEMBERS) Absent:

Arnim Wiek

City Staff Present:

Don Bessler, Public Works Director
Carla Sidi, Public Works Executive Assistant
Craig Caggiano, Environmental Program Supervisor
David McNeil, Environmental Manager

John Osgood, Renewable Energy Manager
Grace Kelly, PW Supervisor
Oddvar Tveit, Environmental Quality Specialist

Guests Present:

Allan Yang, U-Haul International
Shawn Berry, ASU student

Richard Bowman, Sustainability Business Solutions

Chair John Kane called the meeting to order at 4:35 p.m.

Agenda Item 1 – Public Appearance

Chair John Kane called for any public appearances. Mr. Allan Yang, U-Haul International, introduced himself and talked about some supply chain management and sustainability projects his company has sponsored.

Agenda Item 2 – Approval of Meeting Minutes

Chair Kane introduced the minutes of the December 14, 2015 meeting and asked for a motion. A motion was made to approve the minutes.

Motion: Commissioner Colin Tetreault

Second: Commissioner Kendon Jung

Decision: Approved

Agenda Item 3 – Recap Previous Presentations

Don explained how the recap of previous presentations can help the commission to bring back suggestions and clarifications. Commissioner Redman talked about the November Water Conservation presentation. He suggested the multi-family goal should be reconsidered. Since Tempe is undergoing to some changes and the multi-family housing product is increasing, this may give the city the opportunity to think differently.

Agenda Item 4 – Sustainability Initiatives - Solar Initiatives

Grace Kelly, PW Supervisor, and John Osgood, Renewable Energy Manager, provided a PowerPoint presentation on the city's solar initiatives and gave an overview of the program, effectiveness, and how it gets measured.

- In 2015 Council established a renewable energy goal to provide 20% of municipal operations energy from renewable sources by 2025.
- With the current project underway and those completed we are at 11
- 1 MW at South Treatment Plant – completed in 2014. Water plants are the largest energy users
- Installation of solar panels at the library complex parking lot is 98% complete. The 800 kW system will provide 35% of the library complex's power needs. Savings of \$95,000 in utility costs over 20 years.
- The next three solar projects are planned for the Johnny G. Martinez Water Treatment Plant, EVBOM, and the Kiwanis Recreation Center for a total of nearly 2 ½ MW.
 - JGM water treatment plant solar project is a 950 kw system on two of the reservoir roofs. Result on 25% energy saving for the plant
 - EVBOM solar is a 1 MW system on the bus parking canopies. Project will start the 2nd quarter of 2016. Current, project is going through an evaluation obstruction due to the proximity with airport
 - Kiwanis Recreation Center would have 400 kW on solar parking canopies in the parking lot. That will generate 35% of the power needed for the recreation center
- Police/Courts parking garage and building roof tops – The 263 kW system will provide 12% of the Police/Courts Complex's power needs. Savings of \$128,000 in utility costs over 20 years
- APS is looking to restructure their solar rates this year
- Federal incentives were extended through 2019
- Strengthening partnerships, and leveraging resources going forward, Tempe City staff, and staff from ASU's Energy Innovations group, convened and have been working through a process to identify and prioritize projects and opportunities that advance our respective organizational renewable energy and sustainability goals. We're stretching our thinking beyond facilities and looking at how we could possibly add shade in:
 - Pedestrian areas between city hall and along College Ave, specifically 6th street
 - At transit park and ride lots serving students along the light rail
 - Around Town Lake, south side - pedestrian side
 - Explore community solar, different concepts. Canopy shade trees vs. community solar (roof top solar)

Commissioners asked a range of questions about the program, such as: behavior modification program, community outreach events, impact of changing water plants operational hours, FTA requirement for glare, types of solar panel and meters. Several suggestions by Commissioners to consider as Commission projects going forward include energy retrofit audit one-by-one, possibility of having ASU students doing some auditing, and adopt a pre-define pilot area.

Agenda Item 4 – Sustainability Initiatives – Air Quality Initiatives

Craig Caggiano, Environmental Program Supervisor, Oddvar Tveit, Environmental Quality Specialist, and David McNeil, Environmental Manager, presented an overview about the city's air quality program. They explained the responsibility of the TAVCO (Tempe Aviation Commission) and how the city's initiatives have improved original local air quality. They identified several Federal, State, County and City of Tempe requirements.

- Clean air Act, 1990- EPA set air quality standards for six pollutants
 - Primary standards provide public health protection, including protecting the health of "sensitive" populations such as asthmatics, children, and the elderly. Secondary standards provide public welfare protection, including protection against decreased visibility and damage to animals, crops, vegetation, and buildings
 - Different monitoring sites throughout the Maricopa county: Tempe on Apache Blvd
- Tempe's Air Quality Permits can be classified as General Permits and Non-Title V Permits. General permits (such as Block permit, concerned with dust control from mobile sources, or permits related to activities that have the potential to release criteria pollutants), and Non-Title V Permits (concerned with internal combustion engines)
 - City of Tempe: ARS Title 9 – Cities & Towns PM10 enforcement
 - City Facilities require 16 permits for air quality and PM10
 - 70 Permits related to Annual Activities :Maintenance of logs, annual reports and annual fees
- City Facilities Emission Controls:
- Public Works Operations Emission Controls:
- Public Works Education & Certification:
 - Annual storm and dust training, 3 year certifications by MCAQD
- The PM₁₀ Enforces:
 - Environmental Compliance Inspectors:
 - No leaf blowing or track-out into city roads
 - Engineering:
 - City contractor's air permit coverage
 - City contractor's use of PM₁₀ efficient sweepers on city streets
 - Code Compliance:
 - New developments, proper pavement in vehicle use areas
 - Vacant lot vehicle access restrictions
 - Police:
 - No driving and parking on unpaved city surfaces, parks right-of ways (includes off-road vehicles)
- Based on Maricopa County Rule 310.01 (the Fugitive Dust rule) and Arizona Revised Statutes Title 49, Tempe has developed Best Management Practices for dealing with controlling dust generated from vacant lots.
- Portions of Maricopa County struggling to meet goals for two pollutants. Both can be controlled by influencing the communities' behaviors, and ensuring compliance with permits and ordinances.
 - Particulate matter (PM₁₀)
 - Ozone (O₃)
- Currently, the 5% Annual Reduction Plan, or "The Plan" is being discussed in the court system, and it may be some time before the plan is implemented and accepted.

Commissioners asked a range of questions about the program, such as: paving stabilization, behavior modification program, education outreach, permitting activities. Several suggestions by Commissioners to consider as a program to prevent certain behaviors, some type of permit restriction.

Agenda Item 5 – Commission Retreat

Commissioners discussed the retreat format, content, facilitator and different date ranges.
Commissioner Colin Tetreault suggested The Wrigley Hall at ASU as the location to have the retreat.

A motion was made to have the Commission Retreat on Saturday, February 20, from 10 a.m. until 4p.m., in lieu of the Commission meeting on Tuesday, February 16th.

Motion: Commissioner Kendon Jung
Second: Commissioner Jessica Hauer
Decision: Approved.

Agenda Item 8- Housekeeping Items

None

Agenda Item 6 – Future Agenda Items

Commissioner Gretchen Reinhardt shared a document about Carbon Fee and requested the item to be added to the parking lot. Commission approved it.

Eco-District item will be in the next meeting agenda.

Commissioner Redman made a motion to adjourn the meeting, Commissioner Tetreault seconded.

The Commission's next meeting will be the retreat scheduled for February 20, 2016.
The meeting was adjourned at 6:49 p.m.

Prepared by: Carla Sidi
Reviewed by: Don Bessler