



PUBLIC MEETING AGENDA

Sustainability & Resilience Commission

MEETING DATE

Monday, February 27, 2023
4:30 pm – 6:30 pm

MEETING LOCATION

Microsoft Teams meeting
Join on your computer or mobile app
[Click here to join the meeting](#)

Meeting ID: 225 486 248 85

Passcode: opUGKh

[Download Teams](#) | [Join on the web](#)

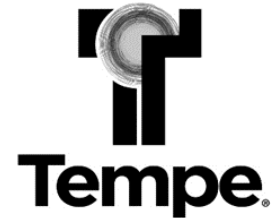
Or call in (audio only)

[+1 480-498-8745](tel:+14804988745), [8219046#](tel:+14808219046) United States, Phoenix

Phone Conference ID: 821 904 6#

AGENDA ITEM	PRESENTER	ACTION or DISCUSSION
1. Welcome and Mission of SRC	Kendon Jung, Commission Chair (4:30 – 4:33 pm)	
2. Public Appearances 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 (4:33 – 4:35 pm)	
3. Approval of Meeting Minutes The Commission will be asked to review and approve meeting minutes from the December 19, 2022 meeting.	Kendon Jung, Commission Chair (4:35 – 4:37 pm)	Discussion
4. Neighborhood Award Nominations	Kendon Jung, Commission Chair Brianna Fisher, Climate Action Manager (4:37 – 5:25 pm)	Action
5. Resilient Tempe Master Plan and Utility Feasibility Study	Maddie Mercer, Neighborhood Resilience Coordinator Braden Kay, Director (5:25pm-5:55pm)	Discussion
6. FY23/24 Budget Updates	Brianna Fisher, Climate Action Manager (5:55pm – 6:05pm)	Discussion
7. Housekeeping Items Highlight Actions Neighborhood Celebration	Kendon Jung, Commission Chair (6:05 – 6:25 pm)	Discussion
8. Future Agenda Items Commission may request future agenda items.	Kendon Jung, Commission Chair (6:25 – 6:30 pm)	Action

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 January 23, 2023

Minutes of the Tempe Sustainability Commission meeting held on Monday, January 23, 2023, 4:30 p.m. at a virtual meeting on MS Teams, through City Hall, 31 E. 5th Street, Tempe, Arizona.

(MEMBERS) Present:

Barbie Burke (Vice Chair)
Natalie Mendoza
Katja Brundiers

Meaghan Coon
Jake Swanson
Shawn Swisher
Erin Boyd
Morgan Winburn

(MEMBERS) Absent:

Kendon Jung (Chair)

City Staff Present:

Brianne Fisher
Andy Escobar
Maddie Mercer
Evelyn Brumfield
Braden Kay

Guests Present:

Barbie Burke called the meeting to order at 4:31 p.m.

Agenda Item 1 – Welcome and Mission of SRC

Vice Chair stated the commission's mission, which is to research and advise on how to advance sustainability in Tempe in areas of city management, operations, and the city as a whole.

Agenda Item 2 – Public Appearances

Gretchen Reinhardt did not present herself as she attended the meeting late.

Agenda Item 3 – Approval of Meeting Minutes

Vice Chair called for a motion to approve the minutes from December 19, 2022.

Commissioner Boyd reminded commissioners of the emails regarding revisions to last month's meeting. Information was received by the Chair and Brianne Fisher.

Motion: Natalie Mendoza

Second: Shawn Swisher

Decision: Approved 6-0

Voted to Approve:

Natalie Mendoza

Shawn Swisher

Katja Brundiars

Jake Swanson

Barbie Burke

Meaghan Coon

Absent:

Kendon Jung (Chair)

Agenda Item 4 – Morgan Winburn, Establishing Roots

Fisher added agenda item to give opportunity for new commission members to present themselves to the commission. All commissioners fill a requirement that is outlined in the commission charter that makes sure there is diverse perspective. These presentations provide opportunities to members to describe their background and how they play a role in the position they are holding. Would like to continue this with future members.

Morgan Winburn is an Urban Agriculture Consultant and is involved in a number of projects. Winburn is the Community Garden Chair for Keep Tempe Beautiful. She outlined projects she is working on.

- Developing community gardens for Creighton Community to establish food security
 - o Distribute 300 produce boxes every Saturday
- Finished ASU KER fellowship funded by the Virginia G Piper Trust
 - o To look at how academia and communities can come together to create resilience. Focused on community gardens in lower socio-economic areas
- Consults for 7 community gardens

- One project is a ranch in Laveen who provides opportunities for children to interact with animals and learn about Arizona's agricultural history
- Manages the Clark Park community garden.
- Works with the City of Phoenix on its backyard garden project and micro farm grant
- Water conservation to elevate food security in low socioeconomic neighborhoods.

Fisher noted Winburn is a great fit to the commission as her work is around local food and she can provide valuable advice on the programs and policies Tempe puts in place.

Questions:

- Fisher asked for an update on Clark Park.
 - Winburn: The grand opening will February 11 from 1-4 pm. The community garden has 22 boxes that people can steward, including communal spaces. They have 3 different types of composting and are working with ASU to create an automated composting system. 10 trees will be planted as part of the food forest and shade tree program. CSA will help support the garden and local farmers.
- Mendoza typed in the chat: I have a question. There's a lot of discussion about food access and in the budget supplemental, we have a one-time request of \$100,000 for "food access and food justice." How does food access pertain to sustainability and resilience to climate crises such as drought, which is the purpose of this commission?
 - As it relates to the commission, Winburn is still learning how everything correlates with each other. How it pertains to sustainability is through the climate crisis. Tempe is growing at an exponential rate and must be responsible for its water usage. Tempe needs to utilize resources more appropriately and responsibly.
 - Fisher notes that the Sustainability and Resilience Office has a supplemental intended for food justice, an issue highlighted throughout the agendas within the Climate Action Plan Update. Ideas on how to use the supplemental include supporting the USDA Roadmap and exploring a partnership with Local First Arizona in regard to a composting pilot.
- Swisher feels that exploring aquaponics or hydroponics farming could introduce different ideas into the community about how water should be used rather than the standard way that is not a sustainable method of farming. He appreciates the work Winburn is doing and is looking forwards to hearing more.

Vice Chair thanked Morgan for her presentation.

Agenda Item 5- Erin Boyd, Culdesac

Erin Boyd presented herself to the commission. She leads government relations and external affairs at Culdesac. She gave a presentation on how Culdesac is helping address the Climate Action Plan Highlight Action Transportation Demand Management (Mobility Hubs).

Boyd described Culdesac as a developer and property manager that prioritizes local community and sustainability. Culdesac is located on plot on Apache Blvd, east of McClintock, west of 101, and adjacent to Escalante and Alegre neighborhoods. The developer is building a car free neighborhood where people can access daily needs of their life by walking, biking, and shared or public transportation. Residents will not have private vehicles; the only exception will be 150 parking spots to support onsite local businesses. This will contribute to a radical reduction in carbon emissions. The design elements of the property are focused on green design by using permeable materials that reflect heat and over 50% of the neighborhood is landscape. Buildings are designed to provide greater shade coverage. The light rail station serving the apartment complex will be the Smith/Apache stop. The site will have a grocery store to help alleviate the effects of Food City closing down.

Boyd highlighted three examples about Culdesac that connect to the commission's work:

1. Mobility hub:
 - a. Transportation amenities include
 - i. ride share pickup location, light rail station, Byrd Scooter and bike parking spots, EV charging stations
2. TDM in Action (Platinum Pass for multi-family)
 - a. Worked with Valley Metro to change its Platinum Pass policy.
 - b. Tenants will have access to a Platinum Pass that is subsidized in rental fees
 - c. The hope is that this policy is expanded to all multi-family housing along the light rail corridor
3. TDM in Action (Little Cholla)
 - a. Weekly pop-up market
 - b. Incentives (\$5 token to spend at event) given to those who attend the event by walking, cycling, or using, light rail

Boyd reminded the commission that the development is still under construction. There will be a soft launch of a restaurant opening in February. A larger opening will be held in March. She extended an invitation to the commissioners.

Questions:

- Mendoza typed in the chat: Can you share exact numbers of your expected profits and how it compares to other neighborhoods that use cars?

- Boyd stated that Culdesac invests differently compared to other developers. The developer is investing in pavers, green landscaping, and partnerships in the community. They are trying to prove to other developers that it can be a successful model and want to see others follow in their footsteps.
- Mendoza types in the chat: How do the expected profits for the Culdesac neighborhood project compare to the expected profits for regular car-centered neighborhoods?
 - Boyd does not have the exact expected profits but can reach out to her at another time to provide that information.
- Swisher asked about Culdesac's experience in getting approval by the City to build this type of development and what can do the commission do to make this process easier and faster to streamline the approval of other similar developments.
 - Boyd stated that while the city's leadership supported the development's priorities, they did push Culdesac to include public space as a design element. There was no pushback about the limited parking spaces.
 - Swisher commented that he hopes there will be more live/work architecture in the area that can contribute to sustainable development. He also thinks about how these types of developments can make non-forward-looking developers see the economic opportunities in this type of design.
 - Boyd said there will be live/work in the units that will open fall of 2023.
- Brundiers shared that what stuck out to her from both presentations was that they both brought forth the practice of not solely striving for profit. It inspires her that the commission might be able to focus on economic mechanisms that enable environmental sustainability rather than just environmental sustainability.
- Dr. Kay commented on Swisher's earlier statement. The last time the Urban Core Master Plan was drafted, it did not have an example like Culdesac. The plan did not get passed but hopes there is another policy window to look at the next generation of transit-oriented development and the codes and standards the City puts near the light rail, streetcar, BRT. With Culdesac as an example, there is opportunity to include this language in the General Plan and transit-oriented development plans. Dr. Kay believes one aspect of Culdesac that is exciting is that the development is not just showing landscape policy change but also transportation and asked Boyd what the benefits are to being able to spend a lot of time on developing policy that goes beyond the immediate needs of a development.
 - Boyd feels fortunate to work at Culdesac as the company sees talent in different backgrounds and has a diverse team. In order to develop communities, a team needs to be diverse. The developer wants to prove that their model is one to copy.

Vice Chair thanked Boyd for the presentation.

Agenda Item 6- FY23/24 Proposed Budget Supplementals

Fisher presented the proposed budget supplementals and is in the current process of submitting the requests for the next fiscal year. The Chief Financial Officer announced that the City will have a conservative budget due to concerns about the economy. The office's approach is to be think about what the community needs if there is a recession, layoffs and if inflation continues. This year's supplements will be submitted with other departments to show coordination and partnership. This will not be the last time the supplementals are shown to the commission.

- Youth Climate Action Coordinator
 - o To fully cover the cost of the position
- Extreme Heat Mitigation and Resilient Neighborhood Roadmap
 - o Moves forward work with FMR around EnVision and community resilience
 - o Funding to go towards education and outreach
 - o Figure out the trusted places community members go to and what they need to be outfitted with through a Resilience Hub Masterplan
- Mobile Water Distribution
 - o Providing resources to special events team and human services team
 - o Helping the DTA provide water distribution stations at yearly events
 - o Acknowledges and puts visual message that we care about water conservation
- Energy Equity program Development
 - o To continue outreach work
 - o To hire energy policy consulting
 - o To pilot residential energy equity project
- Food access and Food Justice
 - o Pilot food distribution at EnVision
 - o Test out new pilots in workforce, entrepreneurship, and backyard gardens
- Clean Energy Jobs and Workforce Development
 - o Fund for Economic Development when they are talking to businesses about tenant improvements around energy efficiency
 - o To support residents interested in electrical and building trades
 - o To support green job training with youth
- Shade and Indigenous Land Stewardship
 - o To support adding shade and Indigenous land stewardship to the Resilient Tempe Master Plan
 - o To support Indigenous land stewardship in the Salt River corridor and Indian Bend Wash
 - o To support a communications and maintenance guide for operating and maintain indigenous and native landscaped

- To increase shade with low-water and indigenous practices

Questions:

- Brundiars noted that the one area that is under researched about heat events is the recovery phase, especially in urban agriculture.
 - Fisher announced that the office has created a position for the hiring of a fellow to think through what that plan is and what the strategies are during a disaster, pre, during, and post.
- Vice Chair noted that she and the Chair and will follow up with commissioners regarding the proposed budget supplementals.

Agenda Item 7 – Housekeeping Items

Burke announced that the Sustainability Award application opened, and that the celebration event will take place on Saturday April 1st. A form with instructions is attached to the agenda packet and the deadline is Tuesday February 15. The application needs to be submitted before the next commission meeting. A copy will be sent, and it will also be posted to the City of Tempe website.

Burke announced that the SRC Year at a Glance annual planning document is attached to the agenda packet. It lists all topics that will be discussed in every meeting.

Agenda Item 8 – Future Agenda Items

Burke stated that City Staff are not working on President's Day, next scheduled commission meeting. Fisher scheduled the moved the meeting back one week on the 27th. Burke asked the commission to add future agenda items. None did.

Motion: Jake Swanson

Second: Shawn Swisher

Decision: Approved 6-0

Voted to Approve:

Natalie Mendoza

Shawn Swisher

Katja Brundiars

Jake Swanson

Barbie Burke

Meaghan Coon

Absent:

Kendon Jung (Chair)

The meeting was adjourned at 5:44 pm.

Prepared by: Andy Escobar

Reviewed by: Brianne Fisher

Addendum:

Chat record for Sustainability and Resilience Commission January 23, 2023, meeting:

[Yesterday 4:32 PM] Fisher, Brianne

Hello Katja and Morgan!

[Yesterday 4:32 PM] Katja Brundiers

Hello everyone, apologies for joining a bit late.

[Yesterday 4:41 PM] Katja Brundiers

Really appreciate this focus on evolving urban AG through cooperative business models that create more resilient livelihoods (and local economies) thank you Morgan

like 2 heart 1

[Yesterday 4:43 PM] Mercer, Madeline

We're really interested in piloting Phoenix's backyard garden program as part of our urban agriculture & food access work in Tempe, I'd love to connect with you about this!

like 4

[Yesterday 4:46 PM] Kay, Braden

So wonderful that you were supported by the KER fellowship! [New Homepage | Knowledge Exchange for Resilience \(asu.edu\)](#)

like 2

New Homepage | Knowledge Exchange for Resilience

[Yesterday 4:47 PM]

Gretchen Reinhardt was invited to the meeting.

[Yesterday 4:48 PM] Katja Brundiers

In the future, I'd also love to learn more how you helped writing codes successfully - that offers great insights into policy-making ...

like 2

[Yesterday 4:48 PM] Natalie Mendoza (Guest)

I have a question. There's a lot of discussion about food access and in the budget supplemental, we have a one-time request of \$100,000 for "food access and food justice." How does food access pertain to sustainability and resilience to climate crises such as drought, which is the purpose of this commission?

like 2

[Yesterday 4:49 PM] Kay, Braden

That's a question for the office not Morgan

[Yesterday 4:50 PM] Kay, Braden

The commission deals with sustainability issues beyond climate but food access is a climate justice and resilience issue. Well said Morgan

[Yesterday 4:51 PM] Kay, Braden

The request is proposed but not approved.

[Yesterday 4:51 PM] Mercer, Madeline

+1 Braden and Morgan -- Food access and food justice are essential components of community (social) resilience, and directly impacts the livability of our community. Like Morgan just said, we can absolutely grow food here, we just need to be mindful of the practices we're using.

like 1

[Yesterday 4:51 PM] Natalie Mendoza (Guest)

Morgan, I have been on this commission for over a year now. It has a focus, but I am not sure how it connects to climate crisis. Many local farmers in the agricultural industry already do that work. I'm asking why we need to come in and interfere with the current agricultural industry and the already existing local farmers here in Tempe?

[Monday 4:53 PM] Natalie Mendoza (Guest)

Madeline: But we are the sustainability and resilience commission. Isn't our concern the focus of ensuring environmental resilience, not "social resistance"?

[Monday 4:55 PM] Fisher, Brianne

Natalie, the SRC is focused on the highlight actions, however these elements are policy development are great to hear the Commissions perspective on.

[Monday 4:56 PM] Fisher, Brianne

We are happy to meet with you and dive in deeper about the local food/climate and resilience connection

like 3

[Monday 4:58 PM] Natalie Mendoza (Guest)

Brianne: Alright, that sounds good. I understand the connection between water security and desert sustainability, but I don't see a major food crisis occurring.

[Monday 4:59 PM] Natalie Mendoza (Guest)

(Question for Erin): How do the expected profits for the Culdesac neighborhood project compare to the expected profits for regular car-centered neighborhoods?

[Monday 5:00 PM] Natalie Mendoza (Guest)

*compared not compare

[Monday 5:01 PM] Mercer, Madeline

Natalie: It's less related to resilience to widespread food crisis (though major supply chain disruption is possible in disaster events, as we saw during COVID), and more related to expanding local food access for communities through varying modes of sustainable production & distribution of locally-produced foods.

[Monday 5:03 PM] Katja Brundiers

I love the emphasis on building a culture - this is as important as building physical infrastructures. I've not owned a car since I live here. Using other mobility options is a reminder that our culture has not yet embraced 'alternative modes of transportation' as a lifestyle.

like 4

[Monday 5:07 PM] Natalie Mendoza (Guest)

Katja: A culture can be a very beneficial part of a community for many individuals, however, I find the cars (and this includes electric vehicles) are much more convenient when it comes to transportation, even within Tempe. It's a 15-20 minute drive anywhere you go in Tempe, but it can be a multi-hour walk to travel the same distance. Additionally, coordinating times with the times that buses go can be challenging and takes time as well. Yesterday, I discovered just how long it takes me to walk across Tempe (and take a short bus ride towards the end when one of the busses caught up with my path), when I needed to get to South Tempe (around Elliot Road) from North Tempe (at University Road).

[Monday 5:08 PM] Natalie Mendoza (Guest)

I think alternative energy sources is a much more realistic focus than alternative mobility options

[Monday 5:09 PM] Natalie Mendoza (Guest)

Can you share exact numbers of your expected profits and how it compares to other neighborhoods that use cars?

[Monday 5:09 PM] Natalie Mendoza (Guest)

natalie.sustainability@gmail.com

[Monday 5:09 PM] Mercer, Madeline

I love to hear about the many ways you're partnering with local businesses and other community stakeholders!

Tempe Sustainability Award Application: Achievement of the Year 2023

Nomination	Category
Keep Tempe Beautiful	Group
Culdesac	Business
Elizabeth "Lizzie" Quigley	Youth
Corey Ozan	Individual
Shalae Clemens	Youth
Mauricio Juarez Leon	Individual
Katja	Individual
Bicycle Cellar	Business
Luke Ramsey	Individual
Tempe Farmers Market	Business
AZ Recycling Coalition	Group

Keep Tempe Beautiful (Group)

Street Cleanup program is an initiative aimed at improving the aesthetic and environmental quality of the city by removing litter and debris from parks and streets. The program focuses on community engagement and environmental stewardship to promote a cleaner and more sustainable city for residents and visitors alike.

2022 Project Highlights:

6,230 lbs. of litter collected

965 lbs of materials recycled

1936 Volunteers Total (1566 NEW VOLUNTEERS FOR 2022)

72 Organizations Partnered with including Amazon, Intel, Tempe Elementary Daisy Troop 2097, ASU Greek

Life, Sun Valley Community Church, Congressman Stanton's office, and more!

Culdesac (Business)

Culdesac is a development that is working to redesign how we work, live, and play more sustainably. Their close attention to community needs, especially when it comes to transportation, in designing a development that not only minimizes an individual's dependence on single-occupancy vehicles, but also aims to rewrite unsustainable

behavior scripts is a noble and needed pursuit. In addition, the operating structure of Culdesac being owned AND operated in Tempe anchors their commitment to be woven into the fabric of the community they serve is a breath of fresh air. While there is always more to do, Culdesac is leagues ahead of their competition and an example for how things to be done.

Elizabeth "Lizzie" Quigley (Youth)

Lizzie" Quigley is a tireless advocate for youth empowerment and sustainability education. She is finishing her bachelors at ASU, during which she has been the chair of sustainability with ASU Changemaker Central, restarted the Sustainability Alliance, served as the youth education ambassador for "Turn it Around," represented the youth voice at the IPCC, and is leading a Arizona Student Summit for University Sustainability efforts. Her work all has been creating paces for the youth to be heard and seen to galvanize into action. In fact, more of the "larger" conversations surrounding sustainability action at or through ASU can be traced to her efforts.

Corey Ozan (Individual)

Corey is a biology teacher at McClintock High School and the sponsor for the school's Sustainability Club. Over the last few years, she has become a model of impactful collaboration between McClintock's Neighborhood Justice Club and Tempe's office of Sustainability & Resilience. The NHJ Club was founded on ideal of local climate action and justice, specifically around heat relief. As a co-sponsor of Neighborhood Justice, she helped plant native and desert adapted plants in several locations around the McClintock campus, as well as a street-scape project on Mill and 12th Street. Additionally, her work post-Neighborhood Justice with S&RO staff and Sustainability Club students has included supporting the student's desire for plant-forward options in the cafeteria, the re-introduction of pollinator plants near the school's greenhouse, planting of indigenous and desert-adapted seeds, and planning a larger scale native garden. Her desire to take a long-term role in moving forward with equity and resilience in mind is to be commended.

Shalae Clemens (Youth)

Shalae is a Senior at McClintock High School and in the summer of 2022, worked as a Youth Climate Fellow for the Cool Kids, Cool Places, Cool Futures Robert Wood Johnson Foundation grant. In her role as a Fellow, she helped to develop a curriculum to be taught to McClintock's Neighborhood Justice Club with the goal of giving the

students the tools to become climate activists who will enact positive change regarding heat relief in the community. As this work continued, the grant team and youth Fellows experienced emotional and frustrating challenges in establishing a governance structure that was optimal for the work and ultimately led to shifting this work to a new space. While Shalae was disappointed in this shift, she did not let it discourage her. Shalae attended the Robert Wood Johnson Foundation Masterclass, hosted by C40 Cities Climate Group in Philadelphia with the Sustainability and Resilience staff. While being the youngest in the room, Shalae asked probing questions, presented her thoughts, and advocated for youth voice in decision making. She also joined in brainstorming with the grant team on how to continue making progress on the Youth Agenda in the years to come. She recently presented at the Maricopa Regional Resilience Celebration event with over one hundred attendees, speaking to the lessons learned in trying a new way to work with a municipality, focusing on youth voices.

Currently, Shalae is participating in the Sustainability Club at McClintock. The Club has already advocated for and seen change in the school cafeteria providing more vegan options. The Club is now developing a plan to implement a native garden with the help of Indigenous experts and by making use of the existing green house.

On top of this work, Shalae is the Chairperson of the Tempe Mayor's Youth Advisory Commission, serves as Chair of the International Leadership Council for the Chief Science Officer Program, and appointed District Student Sustainability Officer for Tempe Union High School.

Shalae is an invaluable asset to the Tempe community through her participation in these roles. She has helped bring authenticity to the Climate Action Plan Update Youth Agenda and will continue to help the Sustainability and Resilience Office shape our youth engagement work for years to come.

Mauricio Juarez Leon(Youth)

Mauricio is an exceptional student leader at Arizona State University, who has demonstrated his skills and passion in various organizations and initiatives. He is the proud president of Sustainabilibuddies, a mentor program where he has successfully matched and led 30+ mentees and 30+ mentors, and planned 4 events every year. As the Team Lead of the Sustainability Alliance, he has made a significant impact by leading the organizing team at the Sustainability Leadership Institute and the Arizona Sustainability Summit. With over 40 attendees in the institute and over 99+ RSVPs in the summit, he has demonstrated his ability to coordinate with 10+ speakers, manage

financial budgeting of \$1000+, and draft a letter to the Arizona Board of Regents. Additionally, he serves as the primary marketing and communications liaison for the Honor Society for Sustainability, where he coordinates the social media presence, photographs events, and is involved in professional and business engagement. Furthermore, he co-founded Fridays for Future Phoenix with Elizabeth Quigley, a nonprofit dedicated to creating change and climate movements every Friday. He also serves as the JEDI (Justice equity diversity and inclusion) representative and undergraduate chair, where he leads JEDI board meetings, advocates for student needs, and provides support and stability for undergraduates. His efforts include designing an online forum, developing a financial assistance program for undergraduates, and reinventing teacher evaluations to account for response bias. Lastly, as the Latino Partnership Scholars (LPS) Specialist, he serves in a vital role in the ASU foundations' 5 Latino chapters, performing several logistical, administrative, and operational tasks and engaging 30+ Latino youth in scholarship activities, empowering them to be leaders in their communities. Apart from doing great work in organizations, he also excels in his academic abilities – having a 4.00 GPA, receiving dean's list 3 semesters in a row (He is currently starting his fourth semester), being a member of the Honor Society for Sustainability (and as an officer), and being an Obama Scholar. He has been a part of various committees, for example, he was a part of the Climate & Democracy Leadership Committee with the likes of David Orr and Peter Schlosser (and approval from Michael Crow), where he was part of a small group of students tasked with creating a yearly budget of thousands (if not millions) of dollars to help students financially with climate initiatives, climate-related conferences, travel stipends, etc He is also part of the social media committee with JEDI and is currently organizing coffee with the deans and directors of the college of global futures twice a semester. He is a go-getter that I definitely see doing great things in the future one day. I am proud of Mauricio for all his achievements at ASU. He has shown remarkable leadership and dedication to various organizations; his hard work and passion are truly inspiring.

Katja Brundiers (Individual)

Katja only has the desire of driving sustainable change with the full consent of the space she is driving for that sustainable change. Katja spends a majority of her energy listening, not telling. I have personally witnessed this in countless experiences. Katja applies her knowledge, but in a participatory manner, not a forceful or commanding manner. She has so much knowledge in this space but has the ability to have a profoundly humble and loving approach. Katja serves on the

iSustainability and Resiliency Commission. She is an associate professor at ASU and works incredibly hard to guide younger minds through this space and listen as well. Katja is making Tempe and more equitable, approach able and sustainable city.

The Bicycle Cellar (Business)

The Bicycle Cellar is obviously oriented towards sustainability in a few ways, they are oriented towards serving a population that typically contributes less to GHG emissions, they are along a light rail path to meet their customer, and they service bikes. What people might not know is their passion and drive to build a more resilient, connected and robust community. The Bicycle Cellar works hard to return lost bikes to their owners, they routinely support (both financially and through educating) pertinent social movements connected to environmental justice, and they take pride in being a local business and contributing to a local economy. If you haven't shared space with the folks at the bicycle cellar, you should.

Luke Ramsey (Individual)

Luke is committed to the bettering of Tempe. Though it is important to note that he is committed to that bettering not only through his own perspective, but through the perspectives of Tempeans as a whole. Luke works to inform the Sustainability and Resiliency Commission, he also works for Osprey Initiative, which works on cleaning waste out of the Salt River corridor. His interests also extend to supporting local businesses, bringing attention to local causes, and studying our local environment to help us navigate how to make decisions about our environment moving forward. On top of all he does, he expresses this through art. Attempting to connect the complex issues our city is facing through artistic expression.

Tempe Farmers Market (Business)

Tempe Farmers Market might not even have the ultimate goal of making Tempe

more sustainable, but that is part of its beauty and allure. The Tempe Farmers Market is a bastion of local businesses. They advance the local economy more than any business in Tempe. Is their goal this education? Is it an effort to make people understand the problems at hand? No. They simply try to provide the best for their residents, and the best means sustainability, resilient and uniqueness. All of the products on the shelves of TFM tend to be local, they provide a space to thrive a space for artists, as well as space for change and innovation. Tempe Farmers Market is never fixed. Instead, it simply assumes the form, structure and contents that its residents need.

AZ Recycling Coalition (Group)

The Arizona Recycling Coalition has been expanding their breadth and depth for what sustainability really is. They have expanded past their initial mission of sustainability and are working to emphasize reducing, reusing and repairing. Recently, they have heavily explored how to advance policy around reuse, repair and other recycling policies in our state. The AZ Recycling Coalition goes out of its way to explore our paths forward in the circular economy.

Resilient Tempe Master Plan

Sustainability and Resilience Commission

February 27, 2023



Tempe

Making waves in the desert

Related Tempe Performance Measures

- **1.27 City Infrastructure & Assets**

Achieve 100% compliance with industry standards related to the replacement or rehabilitation of infrastructure and assets.

- **4.03 – Water Conservation & Efficiency**

Achieve or exceed water conservation and efficiency targets for Single Family, Multifamily and Landscape customer class water use by Fiscal Year 2025/2026

- **4.11 – Tree Coverage**

Achieve a citywide (City and private property) 25% tree and shade canopy by 2040.

Tempe Climate Action Plan Update

Highlight Actions Update

The Sustainability and Resilience Commission identified immediate highlight actions in the first plan that still need policy adoption and investment:



Green Codes and Standards (Green Stormwater Infrastructure and International Green Construction Code adoption):

To establish resilience to extreme heat in new construction 16



Transportation Demand Management and Mobility Hubs:

To increase convenience of low carbon transportations options 19



Resilient Energy Hubs and Resilience Hubs:

To increase community connections and the ability to support survival during disasters 21

Green Stormwater Infrastructure (GSI)

- Captures Stormwater
- Reduces Flooding
- Creates Shade
- Supports Urban Cooling
- Saves Potable Water



GSI Partners & Collaboration

Internal Partners

- Office of Sustainability and Resilience
- Municipal Utilities Department
 - Water Conservation
 - Environmental (Stormwater Quality, Reporting)
- Community Services Department (Parks & Recreation)
- Engineering and Transportation Department
 - Transportation Planning (CIP Projects)
 - Streets Maintenance (Pilot Projects)
 - Engineering (CIP Projects, Floodplain Management)
- Community Development Department (Private Projects)

External Partners

- Consultants
- Sustainability and Resilience Commission
- Arizona State University
- Tempe Residents
- Private Businesses (Pilot Projects)

College Avenue Pilot Project

- Stormwater diverted from the street into landscaping
- Trees and vegetation help with cooling
- Reduced pavement



Rio Salado Parkway & Hardy Drive Pilot Project



- Stormwater diverted from the street into landscaping
- Trees and vegetation help with cooling
- Compost from city green waste



Dorsey Lane and Lemon Street Pilot Project

- Stormwater diverted under the sidewalk into landscaping to reduce flooding
- Trees and vegetation help with cooling
- Compost from city green waste



Master Plan & Feasibility Study

Funding

- \$250,000 Master Plan and Utility Feasibility Study (approved)
- \$150,000 Infrastructure Design (approved)

Scope of Work

- Master Plan
- Urban Forestry Master Plan Update
- Codes and Standards
- Infrastructure Design
- Utility Feasibility Study
- Operations and Maintenance

Elements of Scope of Work

Infrastructure Assessment

- MS4 Permit Compliance and Program Cost
- Assessment of current stormwater infrastructure
- Opportunities for green infrastructure within new and existing projects
- Assessment of schools, parks, & private infrastructure
- Review of existing design criteria codes and standards
- Data review for stormwater and urban forestry
- Racial equity and heat vulnerability mapping

Elements of Scope of Work

Urban Forestry Master Plan Update

- Update of UFSMP including tree banking system, code updates, and review of upcoming investments
- Coordination with Arizona State University to determine how investment can improve biodiversity, soil quality and water quality (Handshake: CAP-LRT)
- Benefits of increased vegetation

Elements of Scope of Work

Utility Feasibility Study

- Pilot phase → transformational change
- Development of alternative funding solutions for Urban Cooling and Stormwater Utility
- Development of a phased approach for developing utility overtime
- Coordinate with Utility Rate Study by Municipal Utilities

Elements of Scope of Work

Stakeholder Engagement

- Focus groups
- Public meetings
- Community outreach & education
- Ambassador program



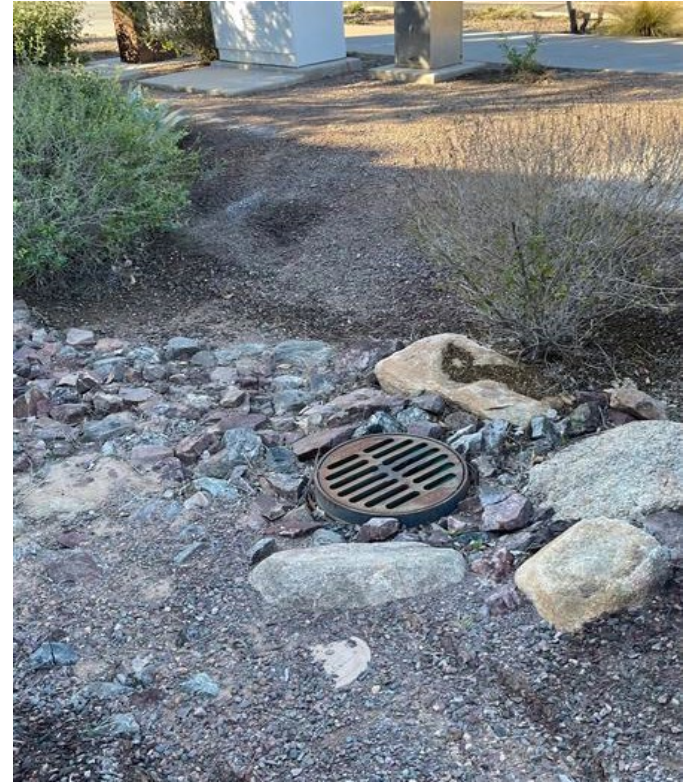
Elements of Scope of Work

GSI Standards

- Co-develop revisions to Engineering Design Criteria for Engineering and Transportation (City projects)

GSI Codes

- Co-development new GSI standard and codes for Community Development (International Green Construction Code Chapter 5)



Future Work

Native and Indigenous Landscape Maintenance Guide

- Develop a communications and maintenance guide for operating and maintaining indigenous and native landscapes
- Secure a contractor to support specific infrastructure installations and ongoing care for native gardens, right of ways and pilot projects

Workforce Development & Training Programs

- Develop additional training resources for city staff and contractors to integrate land stewardship best practices into city operations

Tucson GSI Tour – December 2022

Trip Itinerary:

- **Mission Garden** – living agricultural museum
- **Desert Survivors Native Plant Nursery** – native plant nursery
- **CSM Martin R. "Gunny" Barreras Memorial Park** – in-progress GSI project
- **S. Scott Avenue** – first GSI roadway project in Downtown Tucson
- **Ricardo Manzo Elementary School** – exemplary school gardens & GSI
- **Dunbar Spring Neighborhood** – neighborhood-led GSI transformation
- **Jefferson Park** – large retention basin, public-private partnership
- **Grant Road** – large-scale road improvement project

Tucson GSI Tour – December 2022

Key Takeaways:

- **Sponges Not Funnel**s – seeing urban ecosystems in action
- **Sourcing & Skills** – opportunities for “green” job creation
- **Community Champions** – supporting neighborhood-led solutions
- **Education & Engagement** – building a culture around GSI
- **Maintenance Matters** – extending investment beyond installation
- **Future-focused Funding** – dedicated staff & permanent funding stream

Next Steps & Future Outcomes

Timeline (Near-term):

- **February 2023** – Internal staff planning and coordination
- **March 16, 2023** – Council vote on Master Plan contract
- **April 2023** – Staff interviews with consultant team
- **May 2023** – Ambassador program launch

Future Outcomes:

- City-led pilot projects
- Consultant-led pilot projects
- Urban cooling utility proposal
- City standards (Engineering & Transportation)
- Private development codes (Community Development)

Questions?



Key Dates for FY 2023-24 Operating Budget AND FY 2023-24 - FY 2027-28 CIP Budget Development

2022	
Nov 10	CIP Budget Kick-off Work Study Session: Long-Range Forecast and START Tool
Dec 8	Work Study Session: START Tool Results
Dec 13	Operating Budget Kick-off
Dec 19	CIP Project Request Forms Due
2023	
Jan 4-31	CIP Discovery Meetings
Jan 20	Revenue, Exclusions and Tribal Gaming Grant Request Forms Due
Feb 3	Budget Builder Proposals & Supplemental Requests Due Final CIP Project Revisions Due
Feb 23	Work Study Session: Long-Range Forecast and Introduction of CIP
Feb/Mar	Public Budget Forums
Mar 23	Work Study Session: Initial Recommended 5-year CIP and Acceleration Strategies
Apr 27	Work Study Session - Budget Review Session - City Manager's Initial Recommended FY 2023/24 Operating and Capital Budgets
May 11	Work Study Session: Budget Review Session Follow-up (if needed)
Jun 1	Special Council Meeting: FY 2023-24 Tentative Budget Adoption
Jun 15	Special Council Meeting: FY 2023-24 - FY 2027-28 CIP Adoption, Truth In Taxation, FY 2023-24 Property Tax Ordinance (first hearing) and FY 2023-24 Final Budget Adoption
Jul 27	Special Council Meeting: FY 2023-24 Property Tax Ordinance (second/final hearing)

Office of Sustainability Budget Supplemental Requests (FY23-24)

The following supplemental requests are for the FY-23-24 budget. The Sustainability and Resilience office recognizes the fiscal realities and this year budget season and has co-created supplemental with other departments. The submissions come from items highlighted in our 2022 Climate Action Plan Update and are created with the guiding principles of Equity, Evidence, Engagement, Fiscal Responsibility and Enterprise. With the exception of one request, all of the request are joint supplemental with other Departments focused on supporting Tempe residents and businesses that may need additional support given changing economic conditions.

Requests

Youth Climate Action Coordinator (Reoccurring) \$20,000 [SRO]
Extreme Heat Mitigation and Resilient Neighborhood Roadmap (One-time) \$120,000 [FMR,CS,HS,SRO]
Shade and Indigenous Land Stewardship (One-time) \$300,000 [CS,SRO,ET]
Mobile Water Distribution (One-time) \$7,000 [SRO, HS]
Energy Equity Program Development (One-time) \$120,000 [SRO, HS]
Food Access and Food Justice (One-time) \$100,000 [SRO,CEFS]
Clean Energy Jobs and Workforce Development (One-time) \$120,000 [SRO,ED,CEFS]

Sustainability and Resilience Office Supplemental

Title: Youth Climate Action Coordinator

Budget: \$20,000

Funding: Reoccurring

This supplemental is to fully cover the cost of the Youth Climate Action Coordinator. The first year of the position received partial funding from the Robert Wood Johnson Foundation, and now there is a need to cover that amount moving forward.

Joint Supplementals

Title: Extreme Heat Mitigation and Resilient Neighborhood Roadmap

Budget: \$120,000

Funding: One Time

Departments: SRO, FMR, CS-NS

In Arizona, heat was responsible for 2,429 deaths between 2010 and 2020. Of these, 1,748 were heat-related deaths of Arizona residents, and 681 were non-residents. Heat-related deaths disproportionately affect Black, Indigenous and People of Color. Additional highly vulnerable groups include the elderly, low-income households who face higher energy burdens, and people experiencing homelessness.

The Extreme Heat Mitigation and Resilient Neighborhood Roadmap brings together efforts in Sustainability and Resilience Office, Neighborhood Services, and Fire Medical Rescue to ensure education, outreach, and program development for resilience hubs and resilient energy hubs are coordinated in an effective and collaborative manner. Heat preparedness and heat relief

can be centered in emergency management practices to reduce hospitalizations caused by heat-related illnesses and deaths. Community resilience approaches can be used to make sure residents, government, nonprofits, and businesses work together to reduce the risk of heat and other shocks. These approaches provide an opportunity to effectively work at the nexus of community resilience, emergency management, climate change adaptation, and social equity while also providing opportunities for communities to become more self-determining, socially connected, and improve emergency management and response skills before, during, and after disruptions.

The Extreme Heat Mitigation and Resilient Neighborhood Roadmap will include the following critical components:

1. Development of community resilience programming at EnVision Tempe and future resilience hubs (community outreach, educational workshops, signage, giveaways) (SRO) \$5,000
2. Creation of Heat Mitigation Strategy and Engagement Fellow to support FMR and SRO in planning and execution of emergency management focused community resilience (FMR) \$40,000
3. Development of standard operating procedures for current and future cooling centers and resilience hubs and resilient energy hubs (SRO) \$10,000
4. Development of a Resilience Hub Master Plan in coordination with the Climate Justice Community Working Group (SRO, CD-NS) \$60,000

Title: Shade and Indigenous Land Stewardship

Budget: \$300,000

Funding: One-time

Departments: Sustainability and Resilience Office, Community Services and Engineering and Transportation

This supplemental seeks to add to Tempe tree coverage, while lowering water use and addressing local flooding. The combined work allows seeks to ensure that Tempe works with local tribes and indigenous knowledge experts to practice quality land stewardship with a focus on native plants and practices that center indigenous knowledge and practices. This investment is in line with the Climate Justice Agenda co-created with the Sustainability and Resilience Office (SRO) and Unlimited Potential as part of the 2022 Climate Action Plan Update.

This supplemental will support adding shade and indigenous land stewardship expertise to the Resilient Tempe Master Plan and fund two local master plans to support indigenous land stewardship in the Salt River corridor (river bottom) and Indian Bend Wash.

Additional funding will support a communications and maintenance guide for operating and maintaining indigenous and native landscapes and a contractor to support specific infrastructure installations and services. This investments will ensure high quality implementation and ongoing care for native gardens, right of ways and pilot projects.

This supplemental will ensure the city makes major strides in increasing shade with low-water and indigenous practices. It will also ensure that two critical natural areas of the city have much needed long-term planning to ensure they are signature locations to demonstrate shade and indigenous land stewardship.

Program Components:

1. Consulting Services for Indigenous Ecology and Shade Expertise: \$40,000 (SRO)
2. Rio Salado River Bottom Indigenous Ecology and Resilient Plan: \$120,000 (Community Services)
3. Indian Bend Wash and Indigenous Land Stewardship Corridor Plan: \$150,000 (SRO)
4. Native and Indigenous Landscape Maintenance Guide: \$40,000 (SRO)
5. Green Stormwater and Low-Water Landscape Contractor: \$50,000 (Engineering and Transportation)

Title: Mobile Water Distribution

Budget: \$7,000

Funding: One-time

Departments: Sustainability & Resilience Office and Human Services

The City of Tempe is often expected to provide drinking water, especially at large events, during outreach events, during high heat months, at cooling centers, or to our most vulnerable population. As city staff prepares for the opening of EnVision Tempe, the first resilience energy hub, reliable access to water will be a critical component for promoting community preparedness, adaptation to extreme heat, and emergency response.

As a response to this desired service, the Sustainability and Resilience Office in coordination with Human Services will provide funding for Downtown Tempe Association to rent a mobile drinking water distribution station for their bi-annual Festival of the Arts. To couple the mobile drinking water station, the funding will provide co-branded reusable water bottles. The water bottles can be used throughout the year for Human Services and Sustainability and Resilience Office community needs and be used to raise awareness about the HOPE team.

1. Mobile Water Distribution Station for Arts Festival: \$4,000
2. Branded Re-useable Water Bottles: \$3,000

Title: Energy Equity Program Development

Budget: \$125,000

Funding: One-time

Departments: Sustainability & Resilience Office, Human Services, Government Relations

Residents want to live in homes that assure a comfortable and healthy indoor living environment and provide cooling that conserves energy. Unfortunately, some disadvantaged

residents have to choose between paying for electricity and other necessities because the cost of cooling their homes is too expensive.

The Energy Equity Program Development supplement will continue to fund educational outreach and relationship building with Tempe residents and landlords on how energy policies are made in Tempe and Arizona the energy efficiency opportunities available. Some of the funds will be made available to residents as incentives to support energy investments in single family, multi-family, and mobile homes. The results of this work will be used to form partnerships and develop a strategy for applying for federal energy efficiency funding.

1. Energy Equity Program Development (\$50,000)
 - Collect and analyze data on Tempe housing stock and energy burden. Continue to work with APS and SRP on data access to inform program development.
 - Establish a Climate Justice Advisory Group to help inform program development, incentives, education material, and outreach.
 - Participate and partner with Maricopa County's Energy Insecurity Working Group on building workforce capacity.
 - Participate and partner with ASU's Knowledge Exchange for Resilience and Healthy Urban Environments on pilot projects.
2. Energy Policy Consulting (GRO) \$15,000
3. Energy Equity in Residential Pilot Project (HS) \$60,000

Title: Food Access and Food Justice

Budget: \$100,000

Funding: One-time

Departments: Sustainability and Resilience Office and Education, Career & Family Services

Food insecurity increases during economic downturns. With increase food costs coupled with the housing crisis, Tempe's most vulnerable residents need food access and food justice solutions. The Climate Justice and Youth Agendas in the 2022 Climate Action Update recommended that the city take further steps to make food more available to residents with low-incomes and provide more food production opportunities in schools, housing and neighborhoods.

The Food Access and Food Justice supplemental will immediate food relief pilot projects in schools and at EnVision Tempe. It will fund the cities first food entrepreneurship pilot project to create more opportunities for Tempe residents to start food businesses. The supplemental will also fund pilot projects to pilot the City of Phoenix's backyard garden and food forest programs. The results of this work to get food to Tempe's most vulnerable residents to accompany existing programs and specifically target families through schools and EnVision Tempe. The work will also build a proof of concept for longer term food access solutions that will make the City of Tempe more competitive for larger federal grants and philanthropic investments.

1. Food Access and Distribution at EnVision (\$25,000)
2. School Food Distribution Pilot (\$25,000)
3. Local Food Access Workforce and Entrepreneurship Pilot (\$15,000)
4. Backyard Garden Pilot (\$35,000)

Title: Clean Energy Jobs and Workforce Development

Budget: \$120,000

Funding: One-time

Departments: Sustainability and Resilience Office, Human Services, Government Relations

With deep federal investment and new leadership at the state level there is an opportunity to reduce greenhouse gas emissions through creating the clean energy economy workforce and supporting Tempe small businesses in their efforts to save money and reduce energy use.

This supplemental will allow Economic Development to provide businesses access to information and funds to invest in energy efficiency so more money can be spent on the business. This supplemental funding will couple with their redevelopment program. Some funding will be made available to a local non-profit to support clean energy training and rebate awareness.

Additional funds will go to supplement existing workforce development dollars to support Tempe residents interested the electrical and building trades.

Thirdly, funds will be used to support green job training with youth through Tempe Union High School District and Mayors Youth Advisory Council students to ensure more students are aware of the clean energy economy and green jobs.

This investment will result in Tempe businesses reducing their carbon footprints and energy buildings and increase the number of Tempeans participating in the clean energy economy.

1. Business Clean Energy Fund: \$50,000 (Economic Development)
2. Clean Energy Business Campaign: \$25,000 (Sustainability and Resilience)
3. Green Job Workforce Development and Job Supporting: \$25,000 (Education, Career, Family Services)
4. Youth Awareness and Green Job Training: \$20,000 (Sustainability and Resilience)