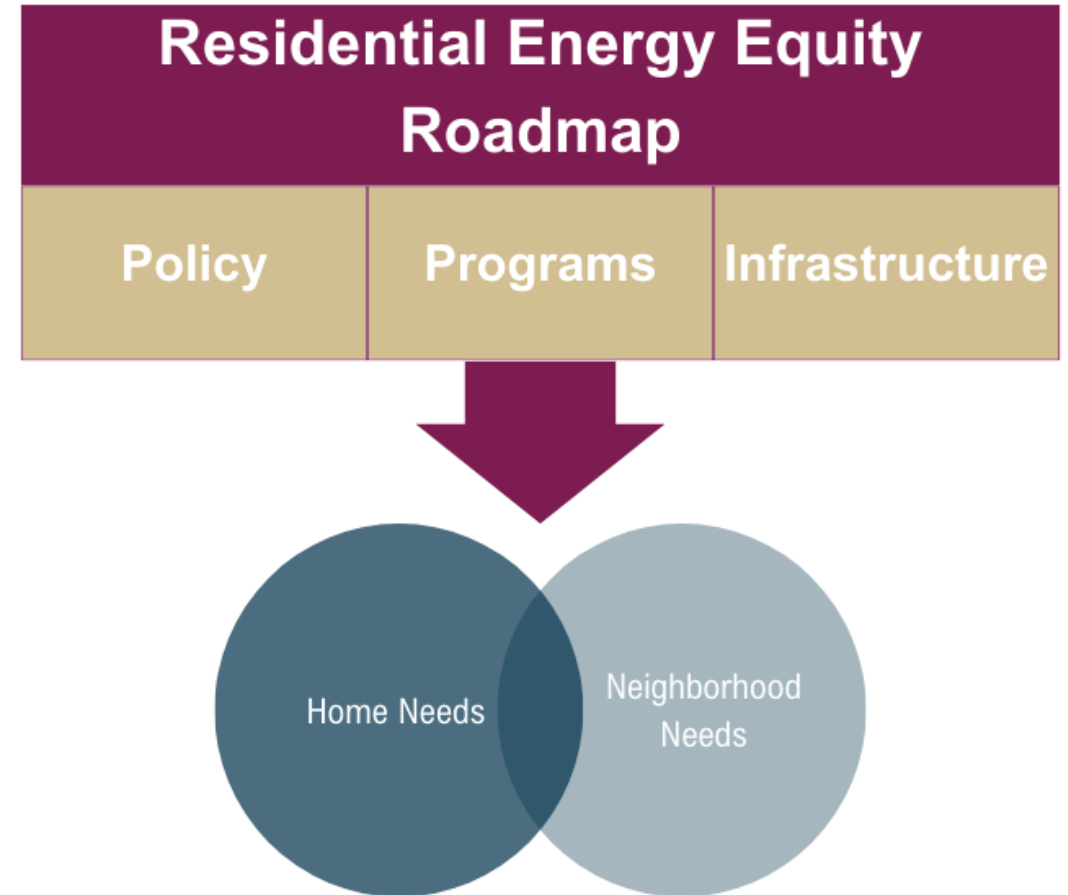


Residential Energy Equity Roadmap

Issue Review Session – Feb. 24, 2025



- **Action Requested:** Council approval of the roadmap.
- **Purpose:** Identifies policies, programs, and infrastructure needs to address energy use and extreme heat challenges faced by Tempe residents.
- **Goal:** Advance equitable and sustainable solutions to help residents meet those challenges.

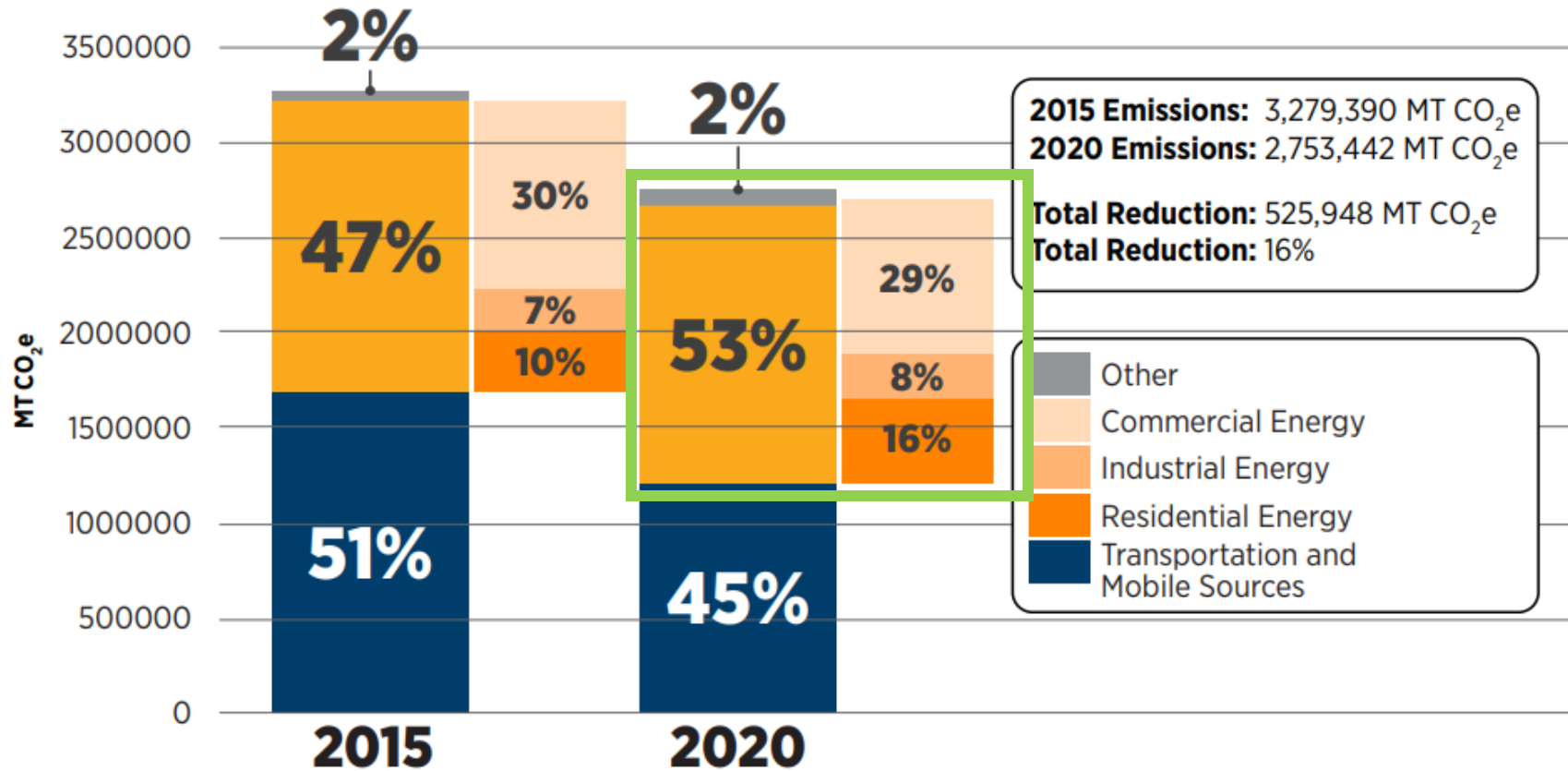




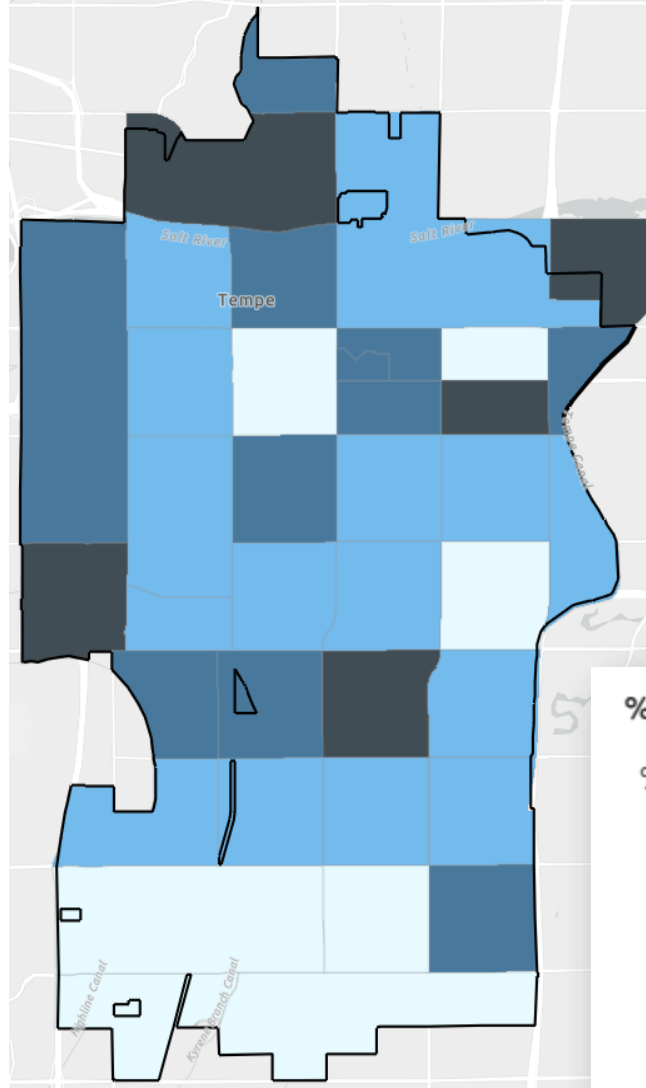
Performance Measure

4.18 Community Carbon Neutrality

Community GHG Emissions



Performance Measure

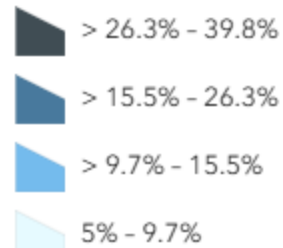


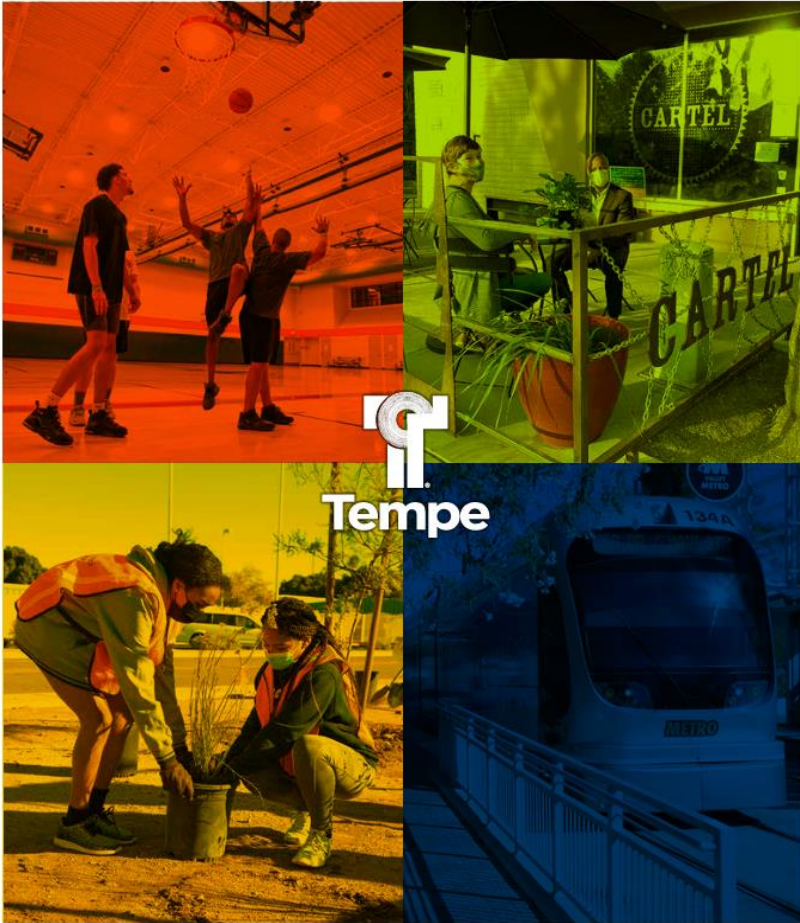
Strategy: Reduce energy burden through residential energy efficiency

- **energy burden is the percentage of income spent on home energy bills*

% of HH with Energy Burden Above 3% of Income

% of HH Energy Burden Above 3%





Climate Justice Agenda

Actions

Extreme Heat and Energy Equity



A pedestrian walking in the heat.

Residents want to live comfortably in a cool, walkable Tempe with adequate living standards that conserve 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. Unsheltered residents, who use the least energy, are the most at risk from extreme heat.

The overall health and well-being of Tempe residents can improve with the following processes and policies:

- **Unsheltered Population:** support and respect unsheltered persons
- **Neighborhood Funding:** mobilize neighborhoods as a collective energy action
- **Green Stormwater Infrastructure (GSI):** promote water conservation and increase native vegetation
- **Energy Savings:** set an allotted amount of energy at no cost; lower-income residents would benefit the most
- **Property Renovations:** weatherize and update existing living spaces
- **Energy Efficiency:** incentivize the use of natural and clean energy resources

Workshop Facilitators



Contributors

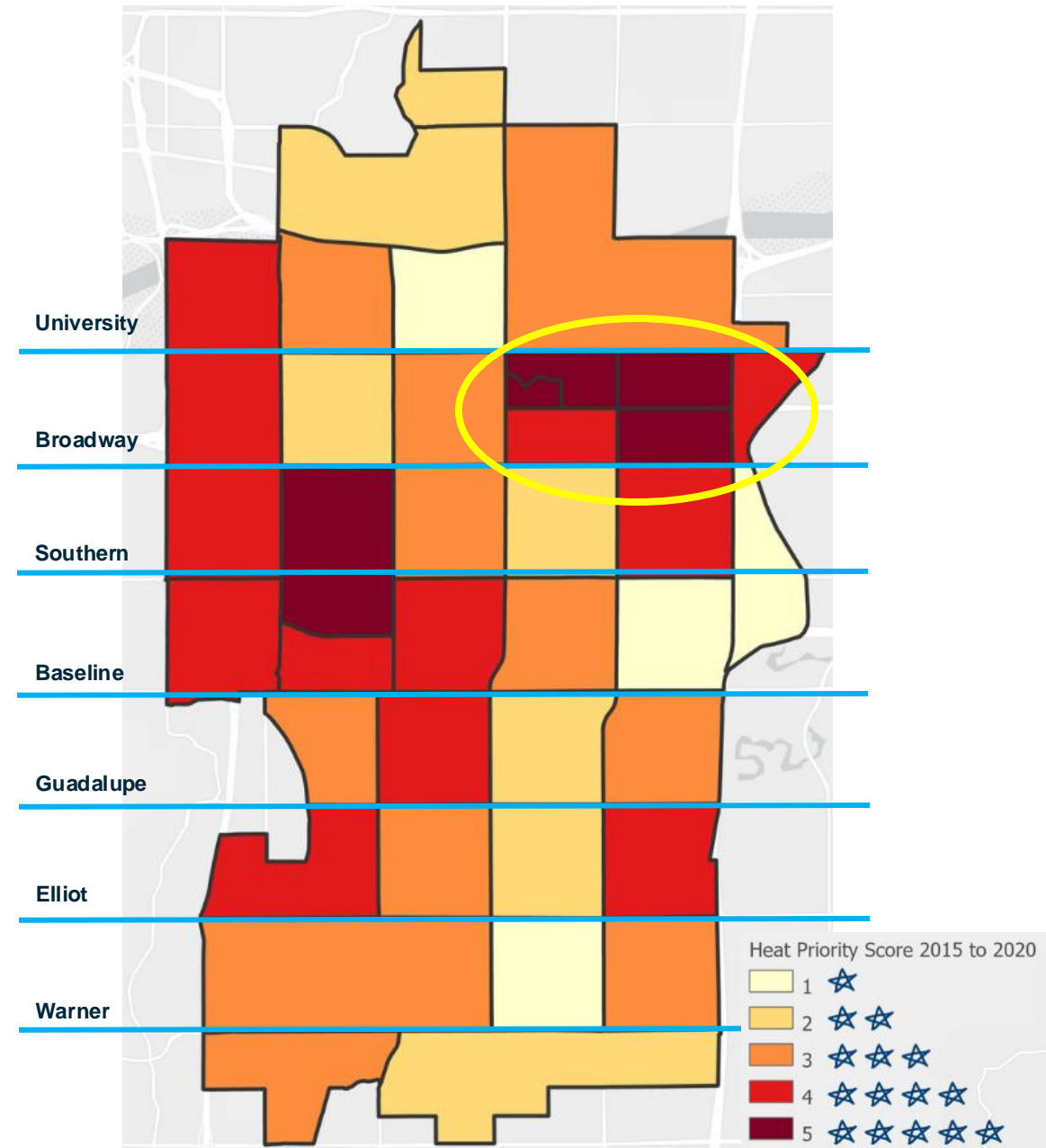




Public Process

Feb. 2024 – Oct. 2024

- Climate Justice Advisory Group
 - Alegre neighborhood
 - Escalante neighborhood
 - Victory Acres neighborhood
- Heat Priority Scores:
 - Help show which areas of Tempe have the highest heat priority.



City of Tempe Heat Priority Scores

Credit: NASA DEVELOP, Arizona State University, City of Tempe



Public Process Contd.

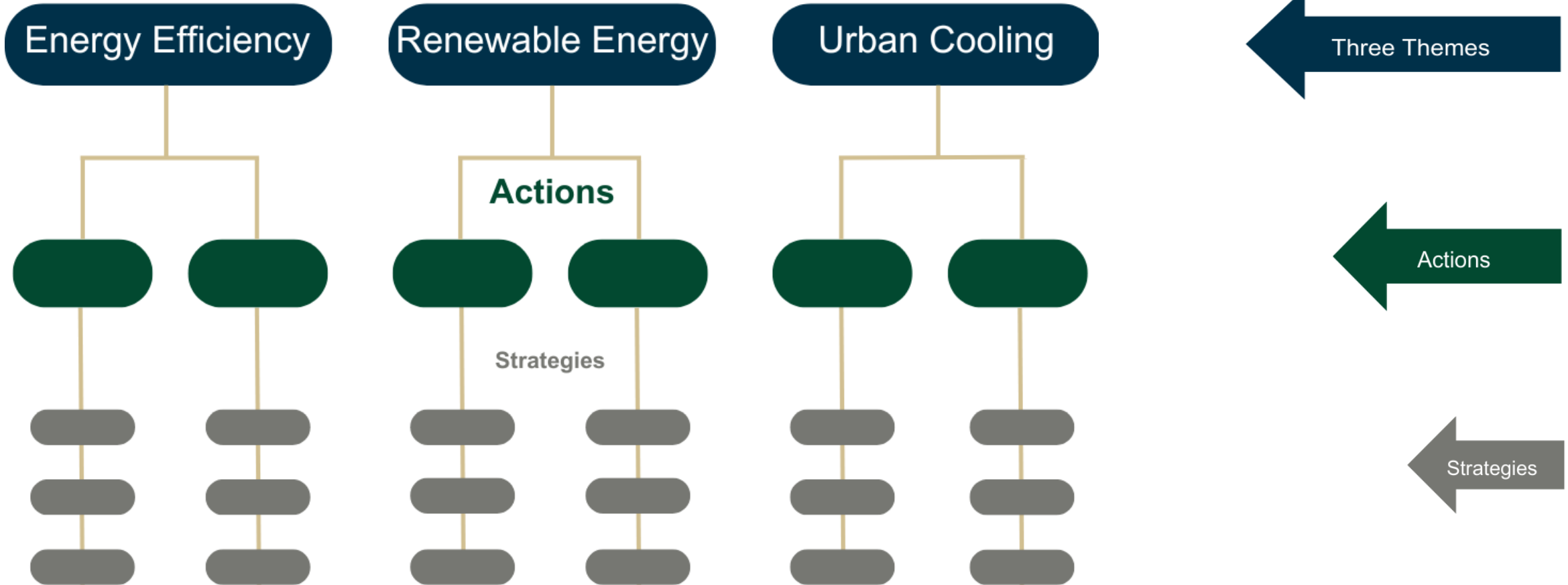
- City-wide Feedback
 - Oct. 24, 2025
 - Escalante Fall Festival (bilingual)
 - Jan. 7 – Jan. 21, 2025
 - Tempe Forum Online Survey (bilingual)
 - Jan. 14, 2025
 - Online Public Meeting
 - In-person Public Meeting (bilingual)
 - Jan. 20, 2025
 - Sustainability and Resilience Commission Presentation





Roadmap Structure

Themes





Theme 1: Energy Efficiency

Actions

Enhance Communication on Existing Residential Energy Programs

Advocacy for Expanding and Increasing Access to Residential Energy Federal Programs

- Low Income Home Energy Assistance Program (LIHEAP)
 - FY 23/24, Arizona ranked 51 out of 51
- Weatherization Assistance Program (WAP)
 - FY 23/24, Arizona ranked 47 out of 51



Theme 1: Energy Efficiency

Actions

Resident-Focused Energy Efficiency Programs and Education

Strengthen Public-Private Partnerships for Home Energy Solutions

Strengthen Building Codes and Standards

Energy Insecurity Survey



Not familiar with utility bill assistance programs



Not familiar with home improvement programs



Limiting cooling/heating systems mostly due to electricity costs

Theme 2: Renewable Energy

Actions

Advocacy for Advancing Equitable Energy Policies at the State Level

Help Households Transition to Renewable Energy Sources



SOLAR



WIND

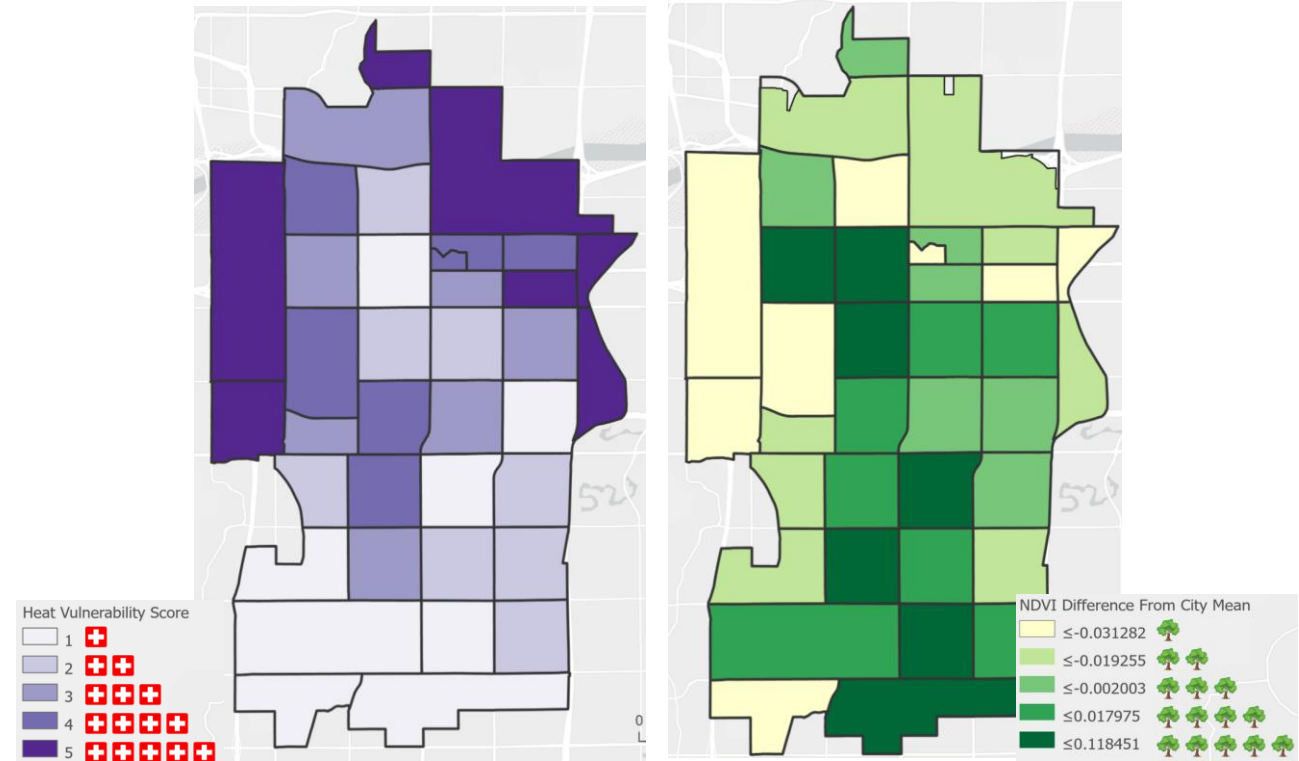
Theme 3: Urban Cooling

Actions

Promote Urban Cooling through Accessible and Inclusive Tree Programs

Address Barriers to Urban Cooling through Strategic Investments

Tempe Heat Data



Heat Vulnerability

Vegetation Presence



Current Progress

Energy Efficiency

- Expanding multilingual communication
- Energy Resource Hub
- SRP Energy Efficiency Workshops at EnVision
- Promote International Green Construction Code (IgCC)
- International Energy Conservation Code (IECC)

Renewable Energy

- Residential Solar Program
 - Expand access to rooftop solar
- Residential Solar Zoning Review
 - Streamline planning, zoning and permitting for residents

Urban Cooling

- Growing Together Tree Steward Program
- Urban Forestry Master Plan
- Rain to Roots Master Plan
- Urban Cooling Performance Measure



Next Steps

- **Federal Advocacy**
 - Advocate for expanded access to federal energy programs
- **State Advocacy**
 - Engage the Arizona Corporation Commission for improvements to existing solar, energy efficiency, and rate distribution policies to better serve residents.
- **Funding Expansion:**
 - Seek funding to grow Tempe's Mobile Home Retrofit Pilot Program beyond its initial phase, including other housing types.
- **Municipal Benchmarking**
 - Develop a pilot program to track and report energy use in municipal buildings as a best practice.



For additional information

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