



Sustainable Opportunities
Advancing Resilience

Agenda

SOAR Bakersfield
Advisory Group Meeting 2 - Buildings and Energy
12:00 p.m. – 1:00 p.m.
February 27, 2025

Zoom Meeting ID: 828 1376 4346; Passcode: 591313

Link:

<https://us06web.zoom.us/j/82813764346?pwd=QoFudVAiGA2BXJMQoD9NltudxD5tG7.1>

Discussion Items		Time
1.	Welcome	12:00 p.m.
2.	Buildings and Energy Presentation	12:05 p.m.
3.	Discussion – Building Energy Opportunities	12:25 p.m.
4.	Next Steps	12:55 p.m.
5.	Next Advisory Group Meeting March 27, 2025, 12:00 - 1:00 p.m.	

Helpful Information:

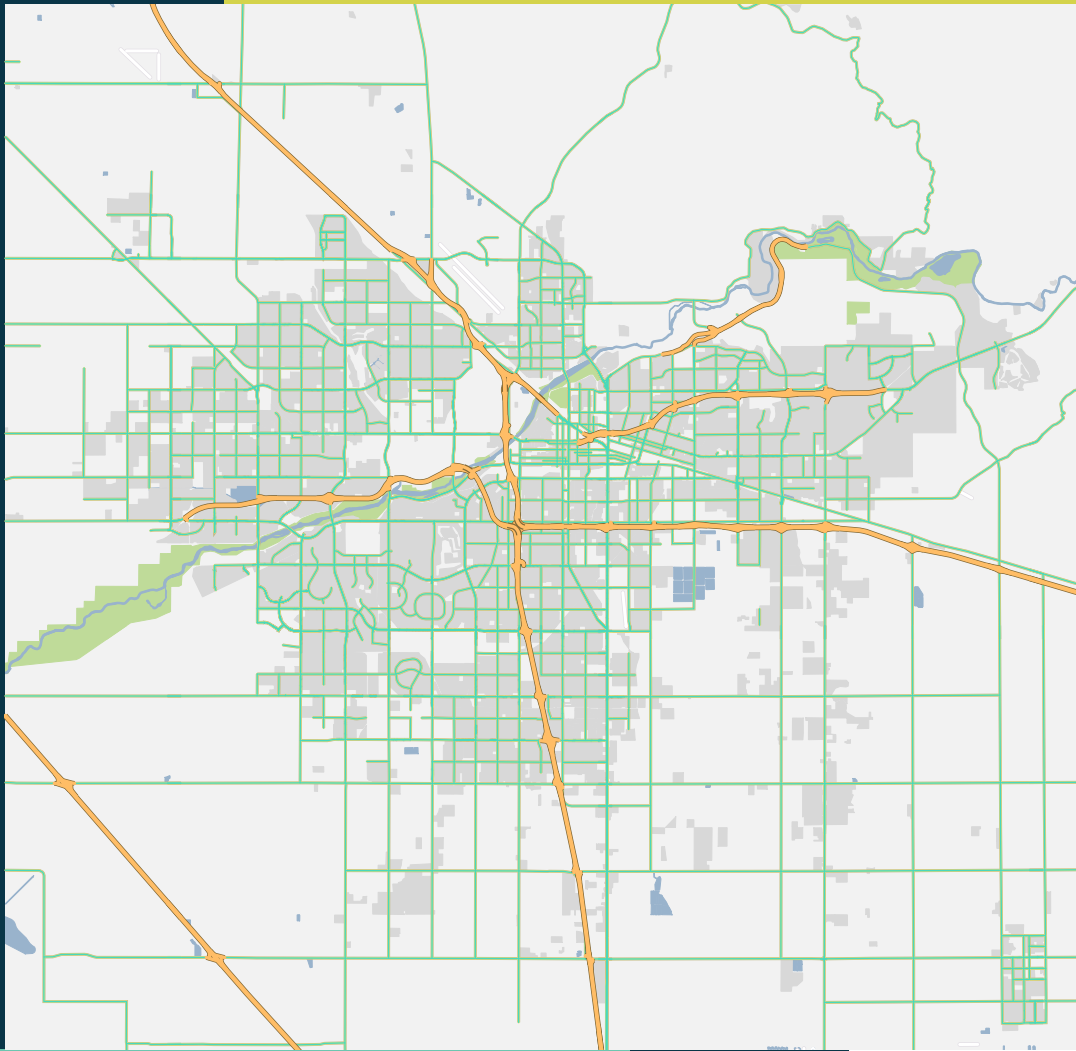
- Project Website: [SOAR Bakersfield | Engage Ascent](#)
- MURAL Board: [Advisory Group Buildings and Energy Activity • ASCENT](#)



Sustainable Opportunities
Advancing Resilience

SOAR (Sustainable Opportunities Advancing Resilience) **Bakersfield**

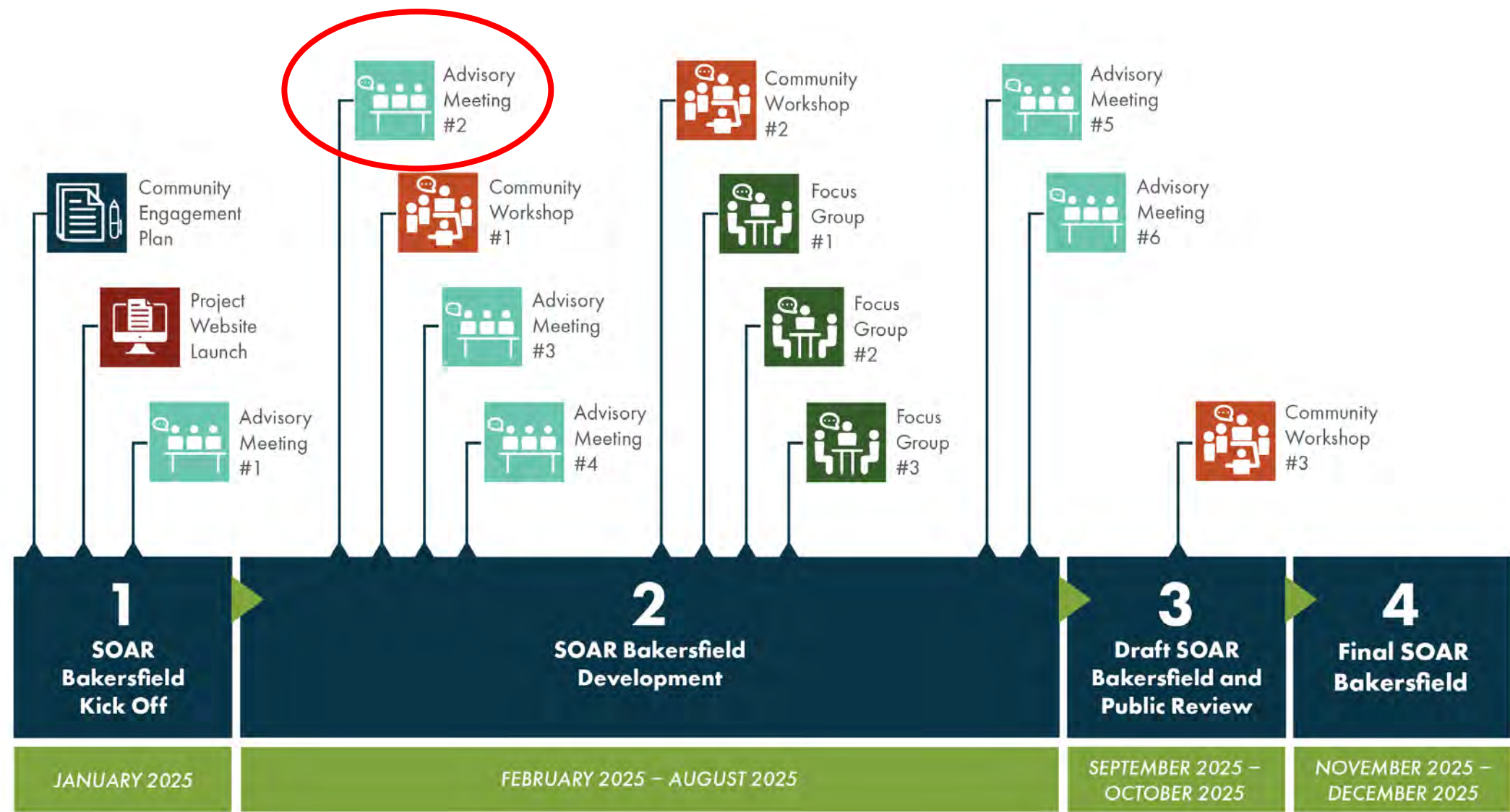
Advisory Group Meeting:
Buildings & Energy
February 27, 2025



Agenda

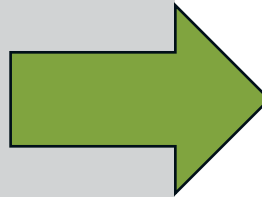
- Welcome
- Buildings and Energy Overview
- Buildings
 - New Construction
 - Existing Residential
 - Existing Nonresidential
- Energy Infrastructure
- Group Discussion
- Next Steps

Project Schedule



EPA Required Components

1. Baseline assessment of greenhouse gas (GHG) emissions
2. Projections of future GHG emissions
- 3. Measures addressing main GHG emission sectors**
4. Analysis of:
 - a) Workforce capacity
 - b) Low-income and Disadvantaged Community benefits
 - c) Authority to implement
5. Meaningful engagement



- **Electricity generation and use**
- **Commercial and residential buildings**
- Transportation
- Industry
- Agriculture
- Natural and working lands
- Waste and materials management

Buildings & Energy

Overview



Overview

- How do we reduce GHG emissions and improve resilience of buildings?
- What is the focus?
 - Energy consumption and generation for buildings
 - Natural gas
 - Propane
 - Electricity
 - Residential and nonresidential buildings
- Consider four categories of buildings:

New Residential	Existing Residential
New Nonresidential	Existing Nonresidential



Buildings

New Construction

New Residential

Existing
Residential

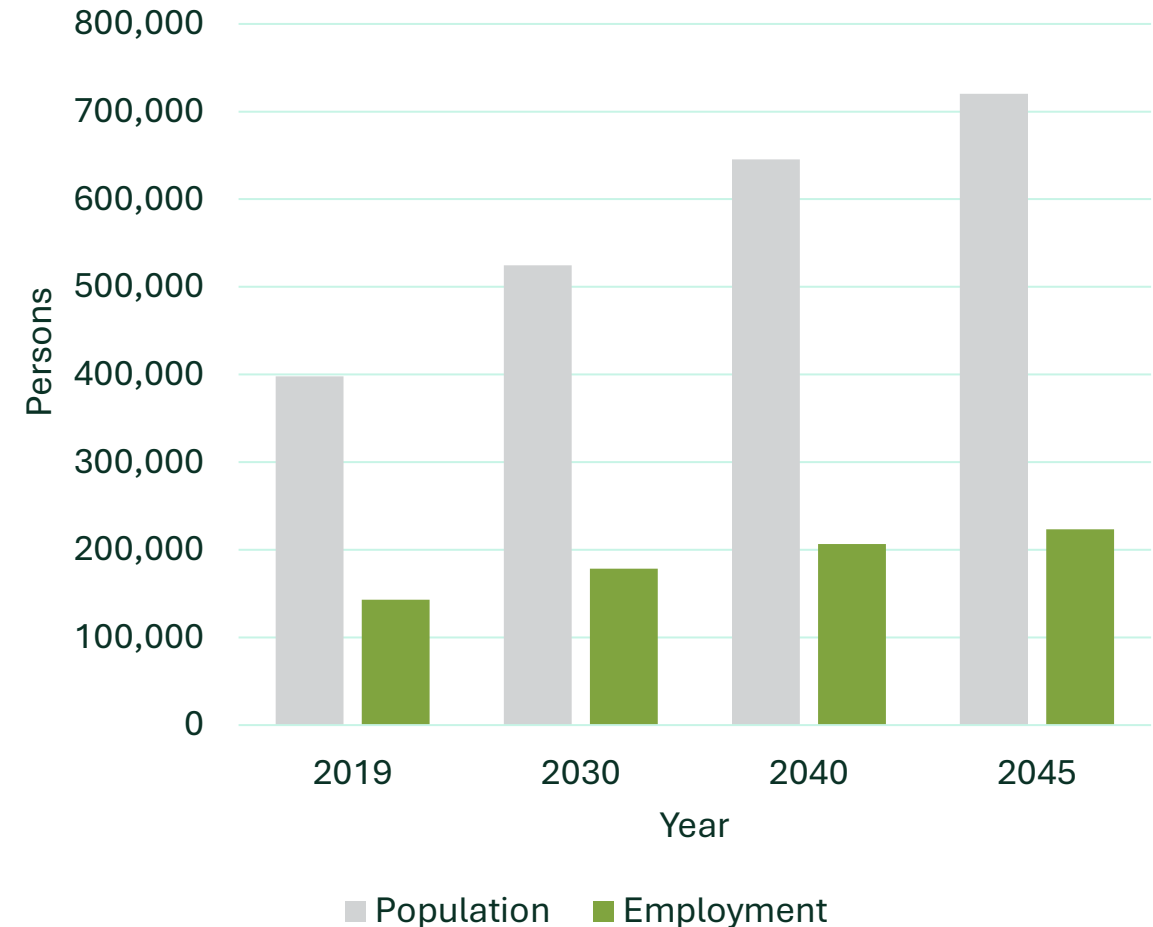
New
Nonresidential

Existing
Nonresidential



Community Profile: New Construction

- Substantial growth will drive new construction in Bakersfield
- New construction must comply with 2025 Building Energy Efficiency Standards
 - Onsite solar PV required for most buildings
 - Battery energy storage systems encouraged for high-rise multifamily and nonresidential
 - Heat pump technology required for residential
 - Both natural gas and electricity are allowed as fuels, but electric-ready is required for many building types



Source: City of Bakersfield 2023

Buildings

Existing Residential Buildings

New Residential

Existing
Residential

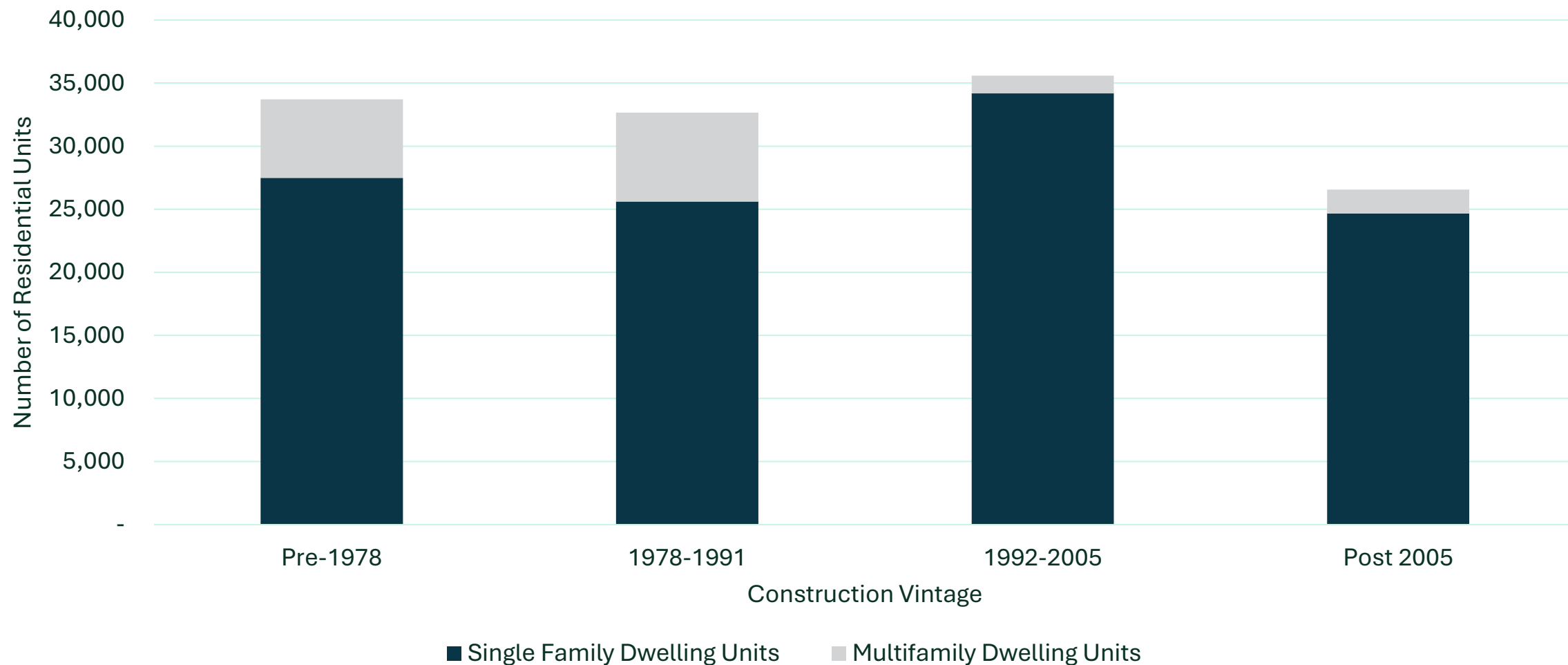
New
Nonresidential

Existing
Nonresidential



Community Profile: Residential Buildings

Half of the 128,500 housing units in Bakersfield were **built before 1991**



Retrofit Timelines and Costs: Single Family, Pre-1978

Equipment	Useful Life Expectancy	Efficiency Upgrade	Incremental Cost	Annual Bill Savings	Payback Timeframe
Central Air Conditioner	7 to 15 years	Electric heat pump space conditioner	\$1,248	\$338	4 years
Furnace	15 to 25 years				
Water Heater	6 to 12 years	Electric heat pump water heater	\$4,332	\$373	12 years
Service Panel	60 years	200-amp service panel	\$2,000 up to \$30,000	-	-
Asphalt Shingles (Roof)	30 years	Cool roof .20 solar reflectance/ Radiant barrier	\$893/\$893	\$172/\$332	5 years/ 3 years
Vinyl/Fiberglass Windows	20 to 40 years	Upgraded Windows	\$11,463	\$868	13 years

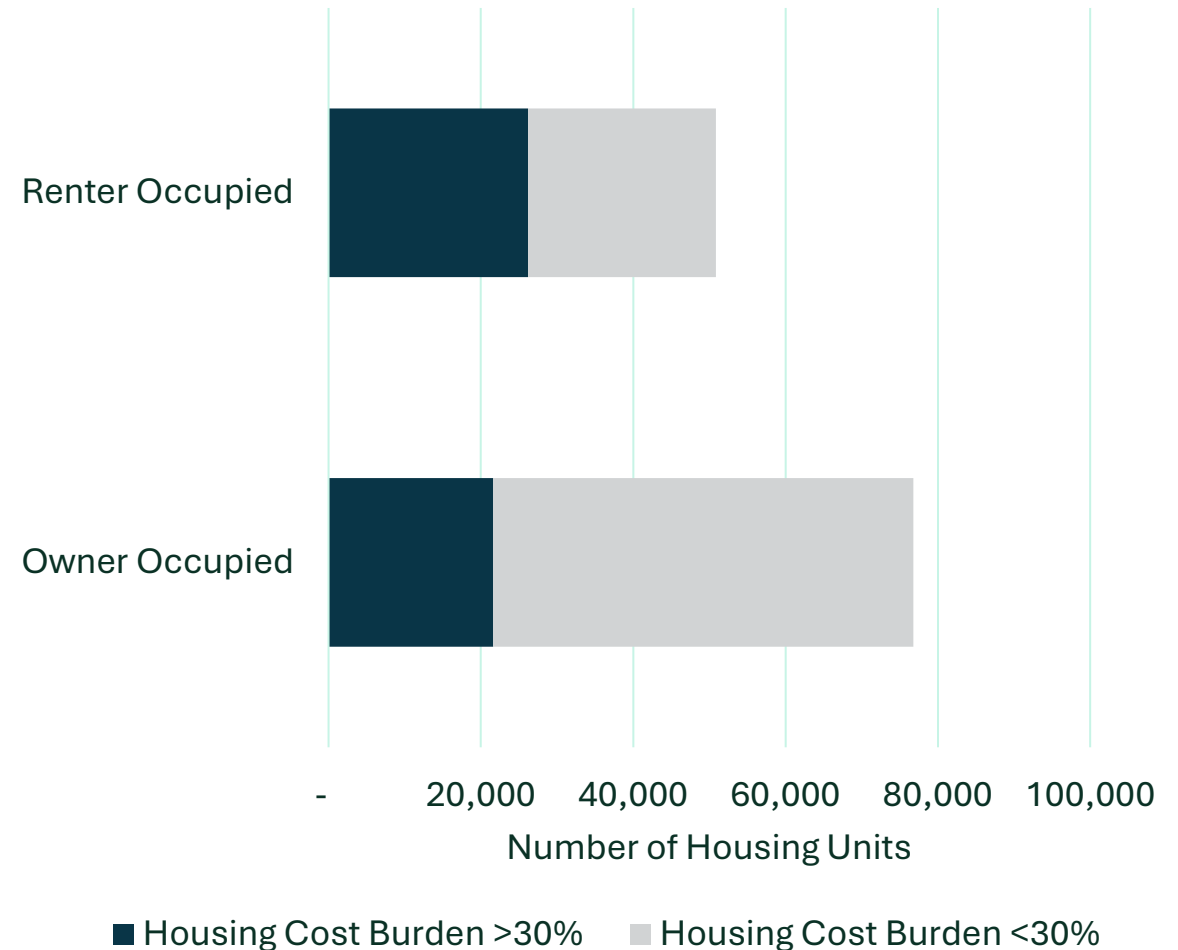
Community Profile: Renter- and Owner-occupied Units

Challenges for Homeowners:

- High-upfront costs of energy efficiency retrofits

Challenges for Renters:

- **51%** of renting households have greater than 30% of monthly income spent on housing costs
- “Split incentive” – Property owners do not make energy efficiency upgrades due to lack of financial incentive



Source: American Communities Survey, 5-year estimates, 2023, Table S2503

Buildings

Existing Nonresidential
Buildings

New Residential

Existing
Residential

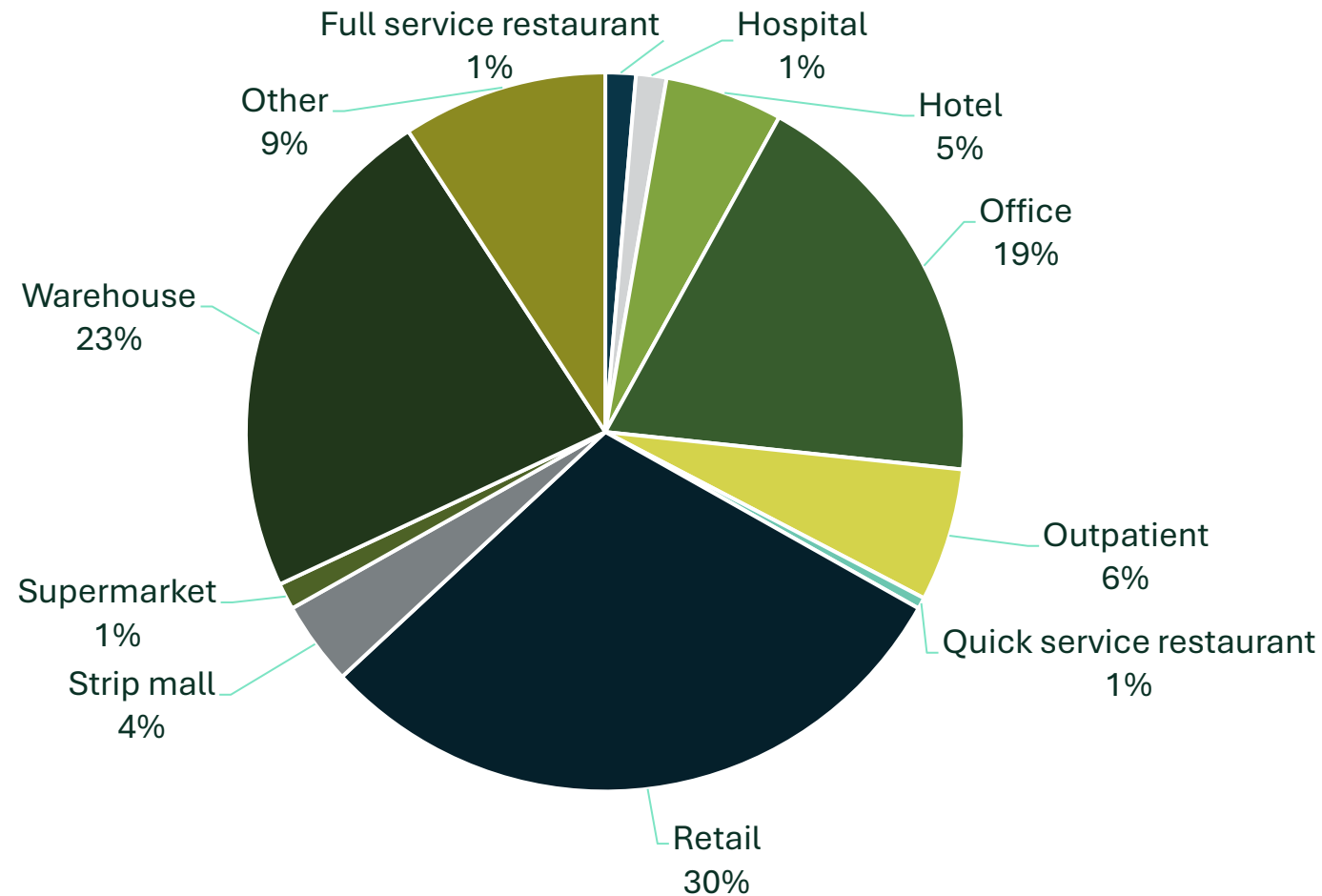
New
Nonresidential

Existing
Nonresidential



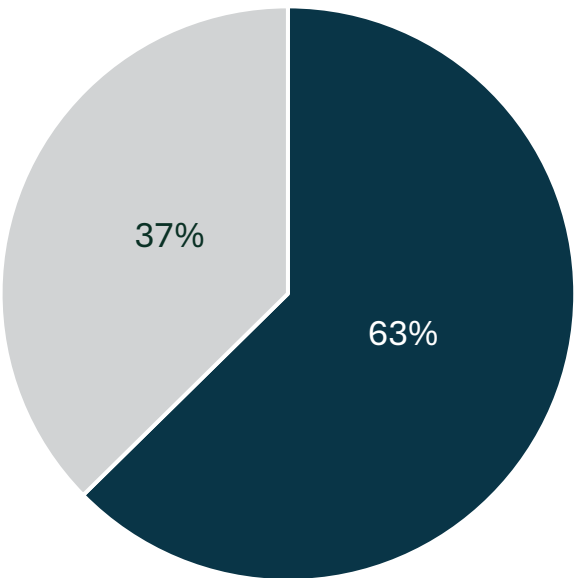
Community Profile: Nonresidential Buildings

As of 2018, there was **79.8M square feet** of nonresidential building space



Community Profile: Nonresidential Energy, 2019

- Electricity and natural gas are primary fuels in nonresidential buildings
- Grid-purchased electricity has **lower carbon intensity** per unit of energy than natural gas



■ Electricity ■ Natural Gas

	Electricity	Natural Gas
Tons of Carbon Dioxide Equiv. per MMBtu	0.0267	0.0532

Source: City of Bakersfield 2023, 2019 Communitywide Energy Consumption

Energy Infrastructure

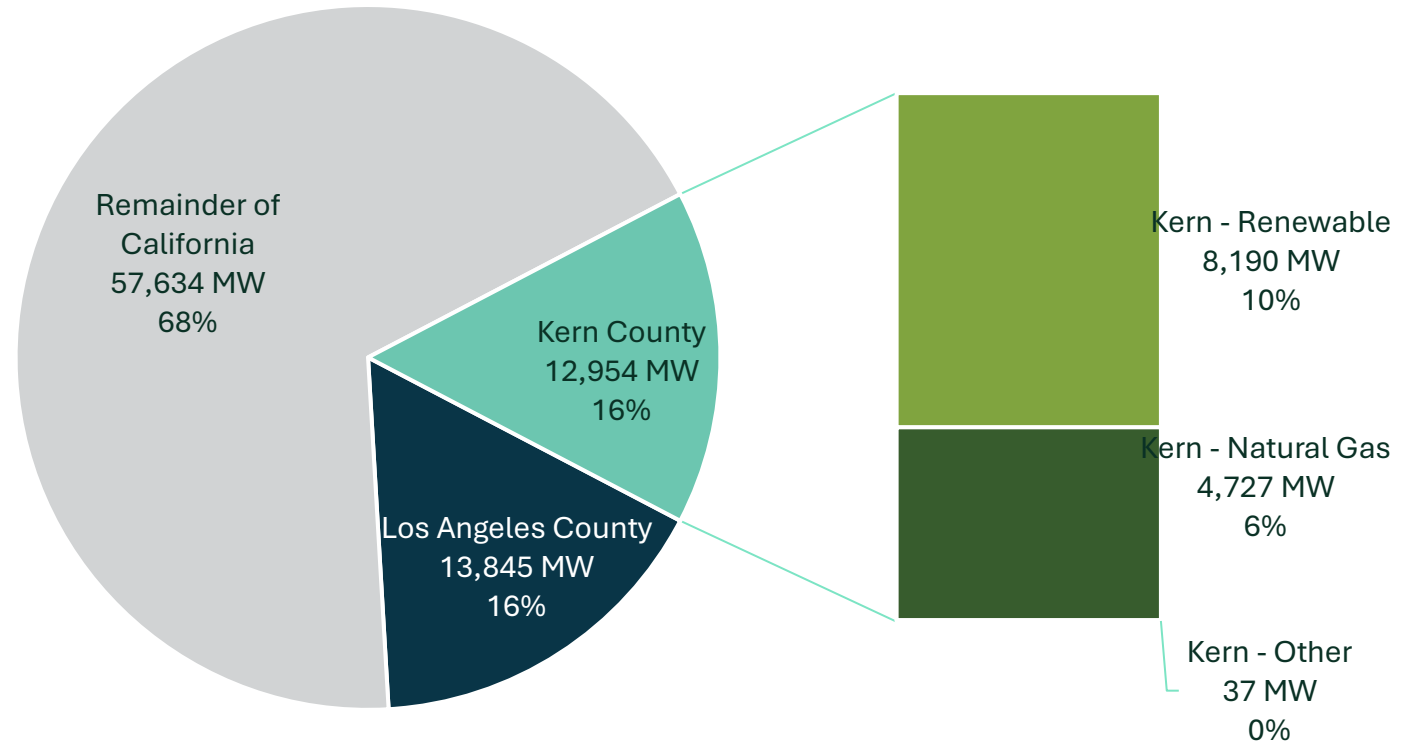
Local Electricity Generation



Electricity Generation Resources

As of 2022, Kern County contains:

- **16%** of statewide electricity generation resources
- The **largest** utility renewable generation capacity – **more than 2x** any other county



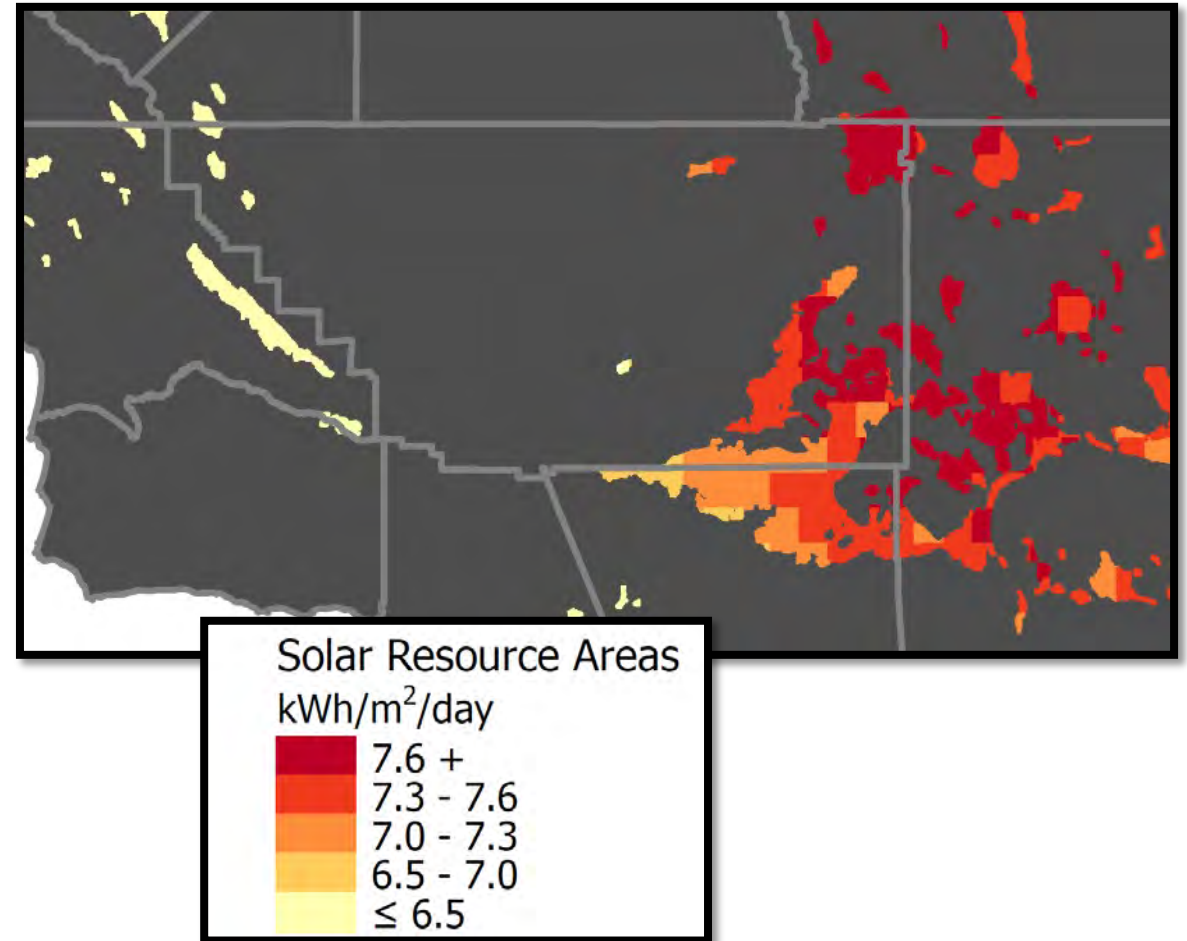
Source: CEC 2024 Total Capacity by Type and County: 2022

Renewable Electricity Opportunities

Wind Resource Areas (WRA)

WRA	Counties	Area (km ²)
<i>Tehachapi</i>	<i>Kern</i>	<i>1,425</i>
East San Diego	Imperial, San Diego	705
San Gorgonio	Riverside	645
Altamont	Alameda, Contra Costa, San Joaquin	345
Solano	Solano	285
Pacheco	Merced	30

Solar Resource Areas (SRA)



Questions?



Group Discussion

Buildings and Energy Opportunities





Discussion Questions

- In breakout groups, explore buildings and energy opportunities in Bakersfield across the following categories:
 - **Sustainability:** Promoting more efficient energy solutions
 - **Resilience:** Ensuring buildings function during climate impacts and energy disruptions
 - **Economic:** Creating jobs, reducing costs, and boosting local economy
 - **Other:** Cross-cutting or innovative ideas not covered above

Discussion Questions

- How might we reimagine buildings to meet future needs?
- What building and energy solutions make sense for our community?
- How can buildings in Bakersfield be better designed to handle climate hazards like extreme heat?
- Are there approaches that have worked well in other communities?
- Do you have building and energy projects that can be replicated or serve as examples?

Ground Rules for Activity

- Be here now.
- One speaker at a time.
- “Step up” to voice your thoughts
- “Step back” to let others speak
- Be additive, not repetitive
- Listen actively (seek to understand, keep an open mind)
- Help the facilitator to keep things on time

Next Steps

- **Next Advisory Group Meeting:** March 27, 2025 at 12:00 p.m.
- **Community Workshop (virtual):** March 18, 2025 at 6:00 p.m.
- **Questions?** Email soar@bakersfieldcity.us
- **Scan the QR Code** to visit the project website for more information and to take the survey



Or type: qrco.de/soar-bakersfield

Thank You

Advisory Group Meeting Schedule

Dates and Topics

January 30, 2025 @ 12:00 pm

- Meeting 1: Introduction / Adaptation

February 27, 2025 @ 12:00 pm

- Meeting 2: Buildings / Energy

March 27, 2025 @ 12:00 pm

- Meeting 3: Transportation / Land Use

April 24, 2025 @ 12:00 pm

- Meeting 4: Waste / Water / Wastewater

June 26, 2025 @ 12:00 pm

- Meeting 5: Nature-Based Solutions

August 28, 2025 @ 12:00 pm

- Meeting 6: Final List of Strategies & Implementation

Breakout Group #2

Brainstorm Building & Energy Opportunities

Sustainable

Example: Improved energy efficiency for existing buildings to reduce energy bills

Example: Energy-efficient appliance rebates

Resilient

Example: Microgrids for hospitals and other critical facilities

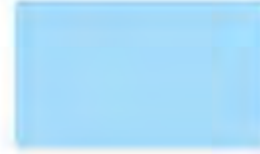
Example: Passive cooling designs in new buildings

Economic

Example: Small business retrofit programs

Example: Renewable energy workforce training

Other



Brainstorm Building & Energy Opportunities

Sustainable

Example: Improved energy efficiency for existing buildings to reduced energy bills

Example: Energy-efficient appliance rebates

Rebates can be difficult to access and process - it would be easier to do through the contractor

The cost of building new homes has increased due to efficiency standards

Cost of retrofits can be challenging - especially for low-income households

Supply chain can be a constraint for electric equipment

PACE financing option was banned by ordinance

Resilient

Example: Microgrids for hospitals and other critical facilities

Example: Passive cooling designs in new buildings

Surface water storage/ Hydro electric energy storage near CA Aqueduct (Opportunity like San Luis Reservoir)

Air conditioning is lacking in rental housing -

Owners may not qualify for programs because the rental property is a second home (increases in property values also create challenges)

Milk processing plant case study - 8801 Gosford

Economic

Example: Small business retrofit programs

Example: Renewable energy workforce training

Older home retrofits need to help owners with their taxes (maybe property tax discount)

Warehousing - Microgrid Energy Storage, both for on-site use and as a regional resource (some have needed to put in their own power generation to supply electricity). Warehousing is growing fast in the region.

Revolving Loan Program for Microgrid/Storage

Economic Tax Increment Financing for Industrial Areas for Microgrid/Storage (infrastructure finance districts)

KCCD has training programs for installation of solar - possibly start engaging student in highschool

Apprenticeship programs support construction workforce, such as for utility-scale projects

On-site work needs additional training opportunities for more specialized projects, such as residential construction work and private development.

Labor shortage has been a challenge. CA Home Building Foundation offers the Building Industry Technology Academy

Other

Attachment F

Stakeholder Advisory Group Meeting #3



Sustainable Opportunities
Advancing Resilience

Agenda

SOAR Bakersfield
Advisory Group Meeting 3 - Land Use and Transportation
12:00 p.m. – 1:00 p.m.
March 27, 2025

Zoom Meeting ID: 870 0636 1174; Passcode: 198224

Link: <https://us06web.zoom.us/j/87006361174?pwd=tSZoKYxYJw451YWKCKEaf3oWqxFDfs.1>

Discussion Items		Time
1.	Welcome	12:00 p.m.
2.	Land Use and Transportation Presentation	12:05 p.m.
3.	Discussion – Land Use and Transportation Opportunities	12:25 p.m.
4.	Next Steps	12:55 p.m.
5.	Next Advisory Group Meeting April 24, 2025, 12:00 - 1:00 p.m.	

Helpful Information:

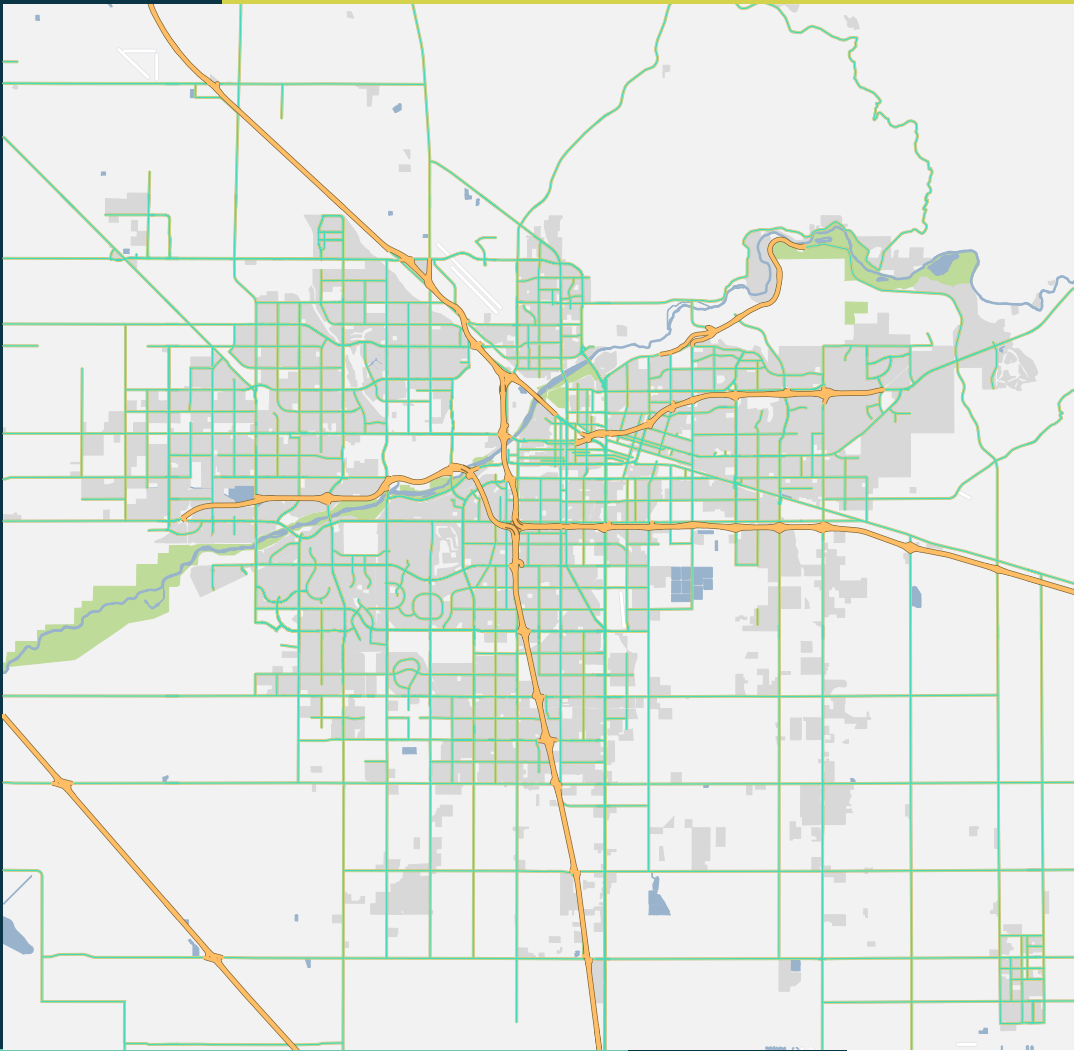
- Project Website: [SOAR Bakersfield | Engage Ascent](#)



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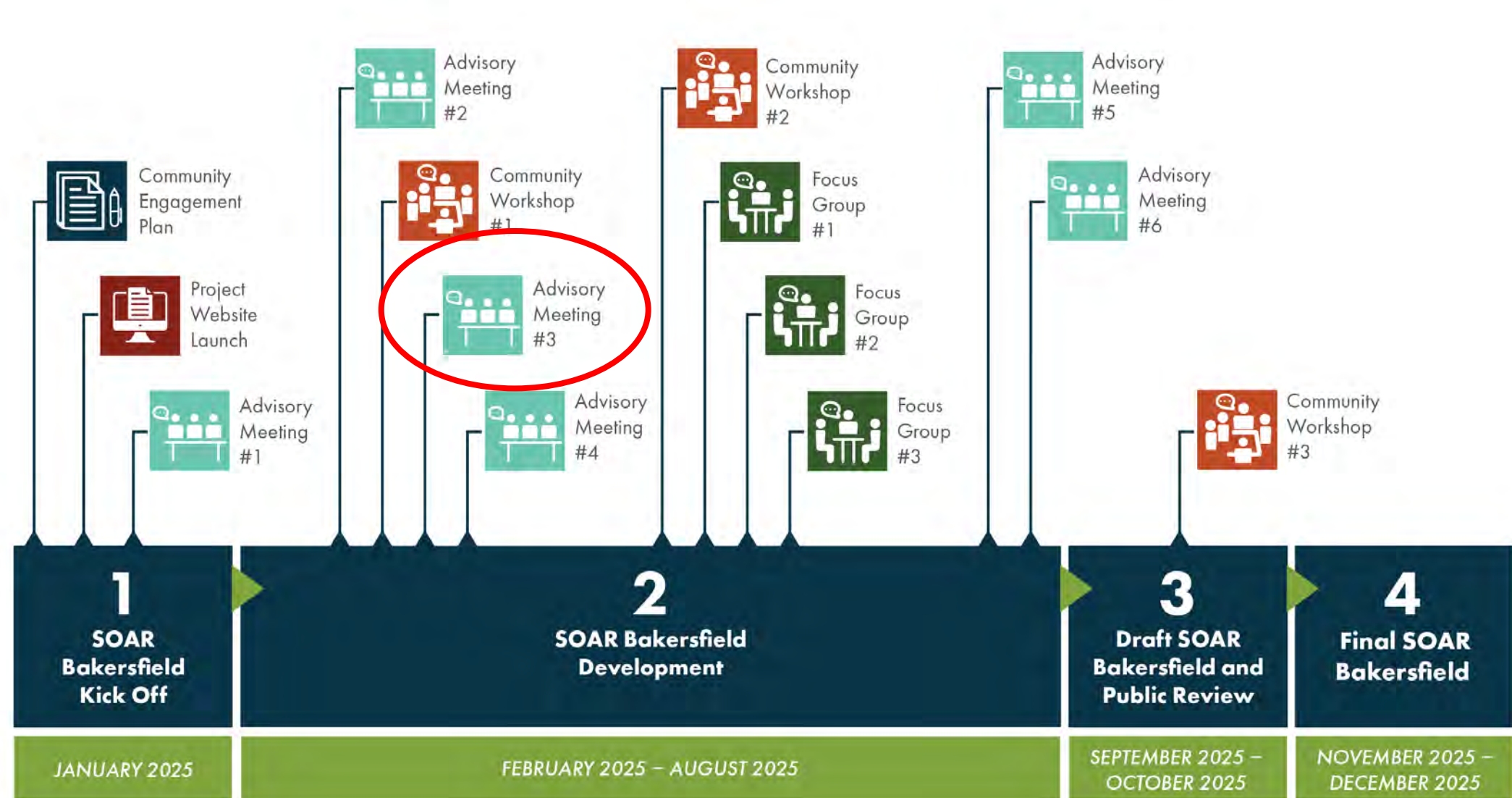
Advisory Group Meeting:
Land Use & Transportation
March 27, 2025



Agenda

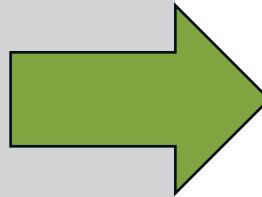
- Welcome
- Land Use and Transportation
 - Overview
 - Development Patterns, Mobility, and Quality of Life
 - Alternative Fuels and ZEVs
 - Local and Regional Planning Efforts
- Group Activity
- Next Steps

Project Schedule



EPA Required Components

1. Baseline assessment of greenhouse gas (GHG) emissions
2. Projections of future GHG emissions
- 3. Measures addressing main GHG emission sectors**
4. Analysis of:
 - a) Workforce capacity
 - b) Low-income and Disadvantaged Community benefits
 - c) Authority to implement
5. Meaningful engagement



- Electricity generation and use
- Commercial and residential buildings
- **Transportation**
- Industry
- Agriculture
- Natural and working lands
- Waste and materials management

Land Use & Transportation

Overview



Overview

- How do we reduce GHG emissions from transportation and improve mobility for all residents, workers, and visitors?
- What is the focus?
 - Land use and mobility
 - Alternative fuels and zero-emission vehicles
- SOAR Bakersfield is **not** a land use planning document; however, it can identify policies, programs, or projects that support:
 - Reduced vehicle travel
 - Improved mobility
 - Increased adoption of zero- and low-emission vehicles (ZEVs)



Land Use & Transportation

Development Patterns, Mobility,
and Quality of Life



Land Use Overview

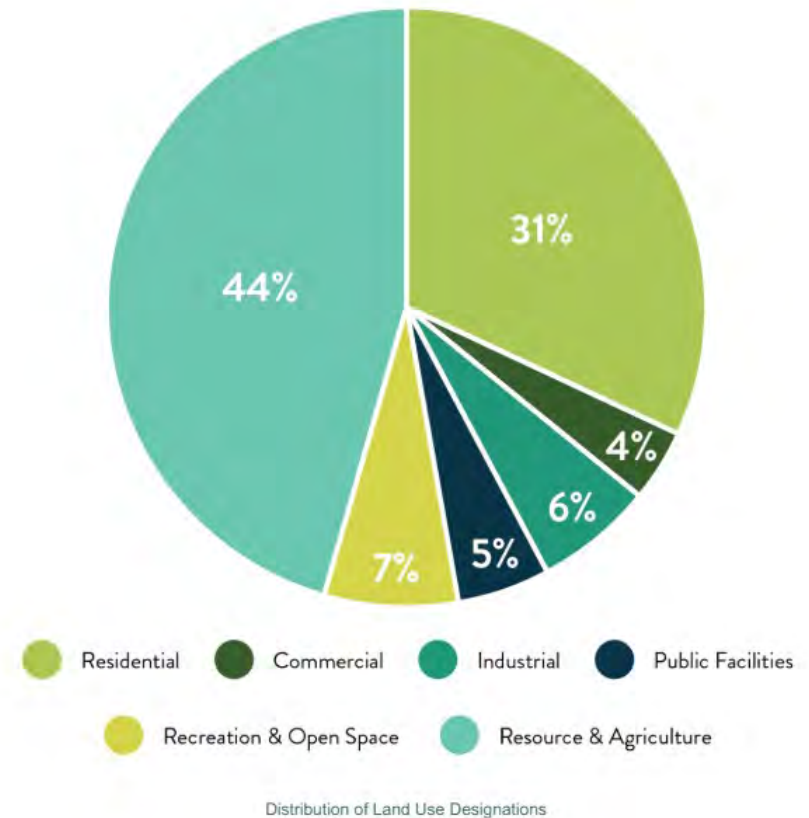
Land use density and neighborhood design influence mobility and quality of life.

- Key terms:
 - Residential Density (dwelling units/acre)
 - Vehicle Miles Traveled (VMT)
 - Low-income and Disadvantaged Communities (LIDACs)



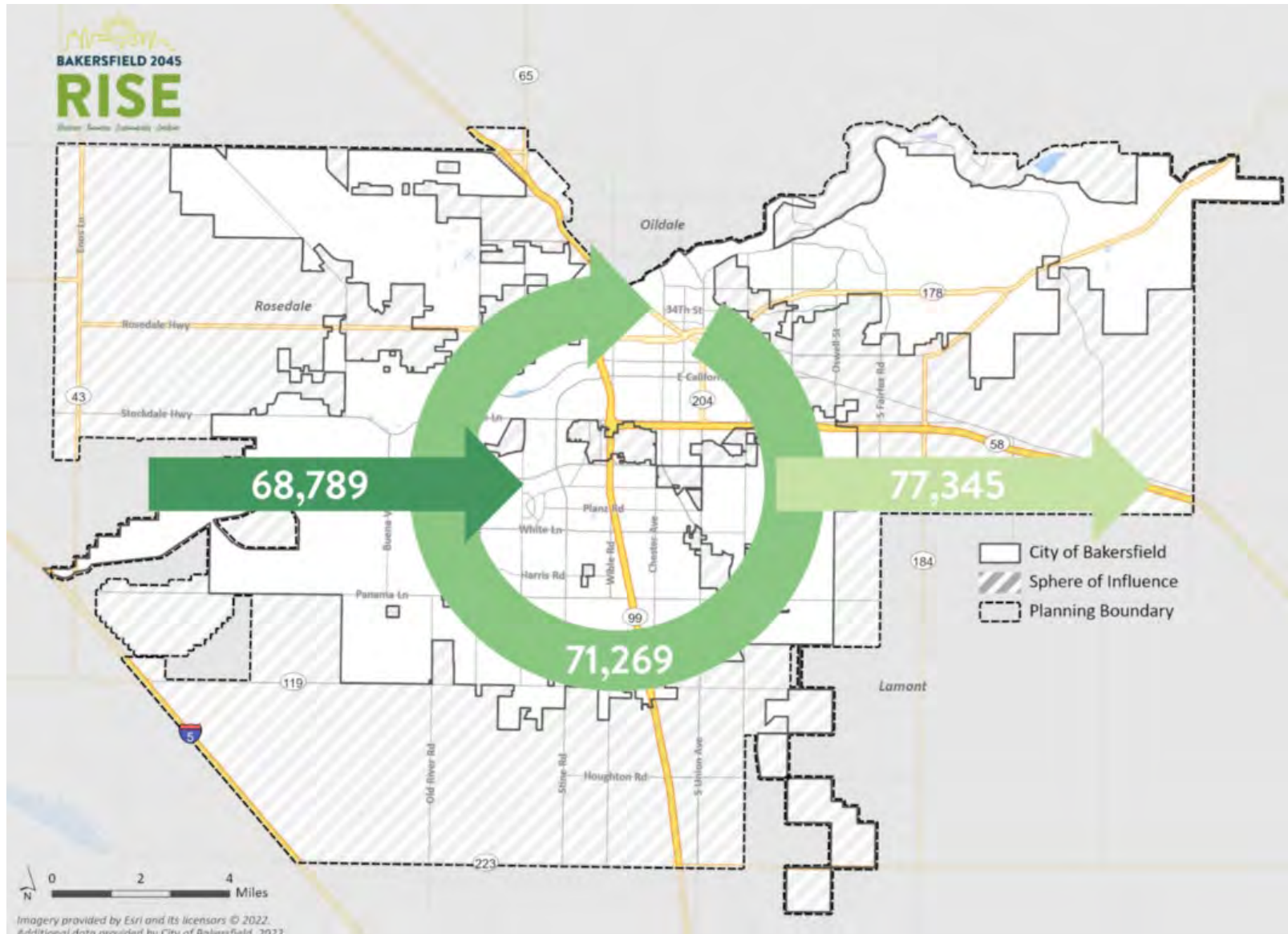
Source: City of Bakersfield. 2022.

General Plan Land Use Designations



For more detail, explore RISE Bakersfield 2022 [Existing Conditions Report](#)

Transportation and Mobility Overview



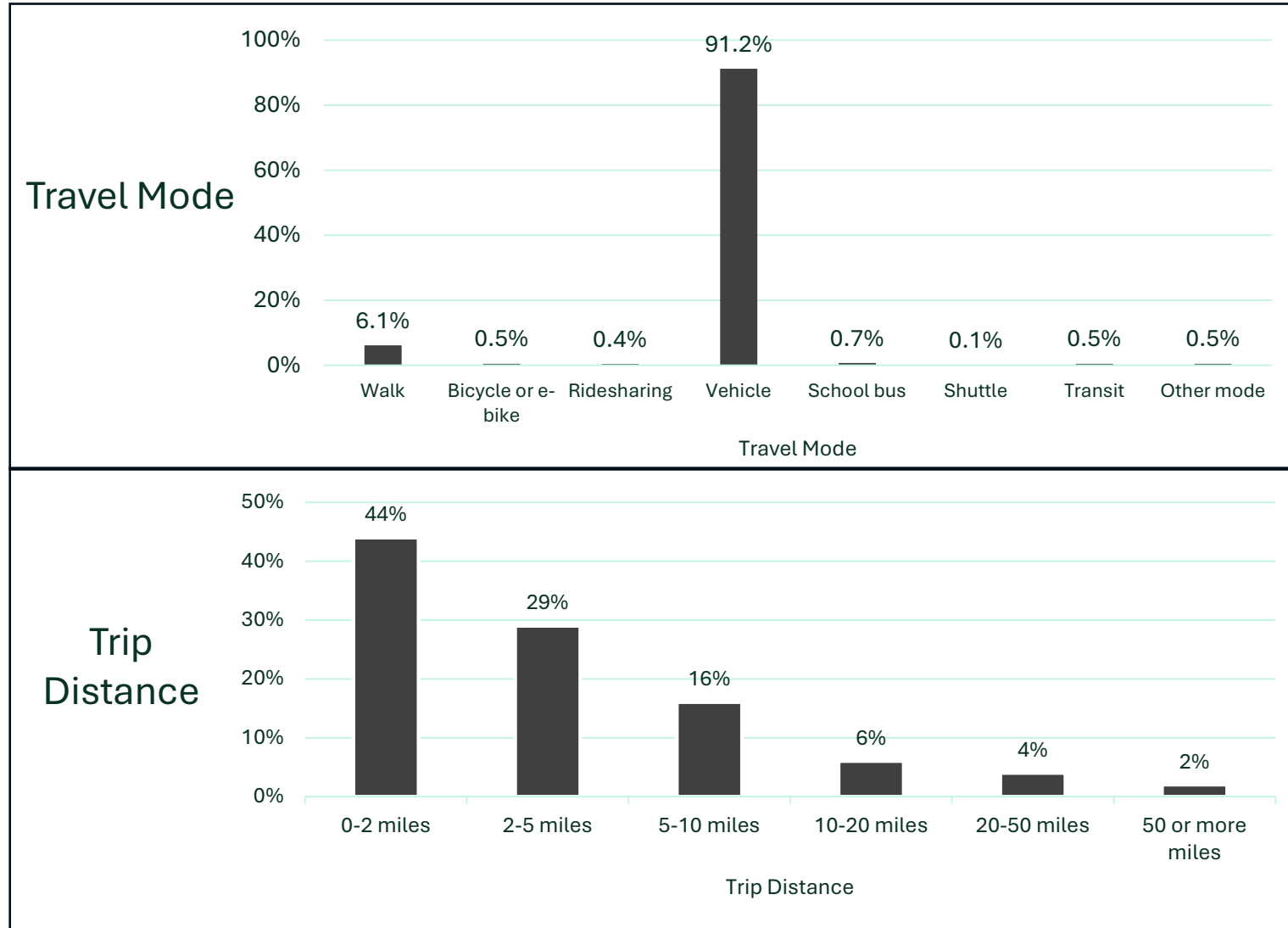
Travel Mode and Distance

Kern County trip mode and distance highlights:

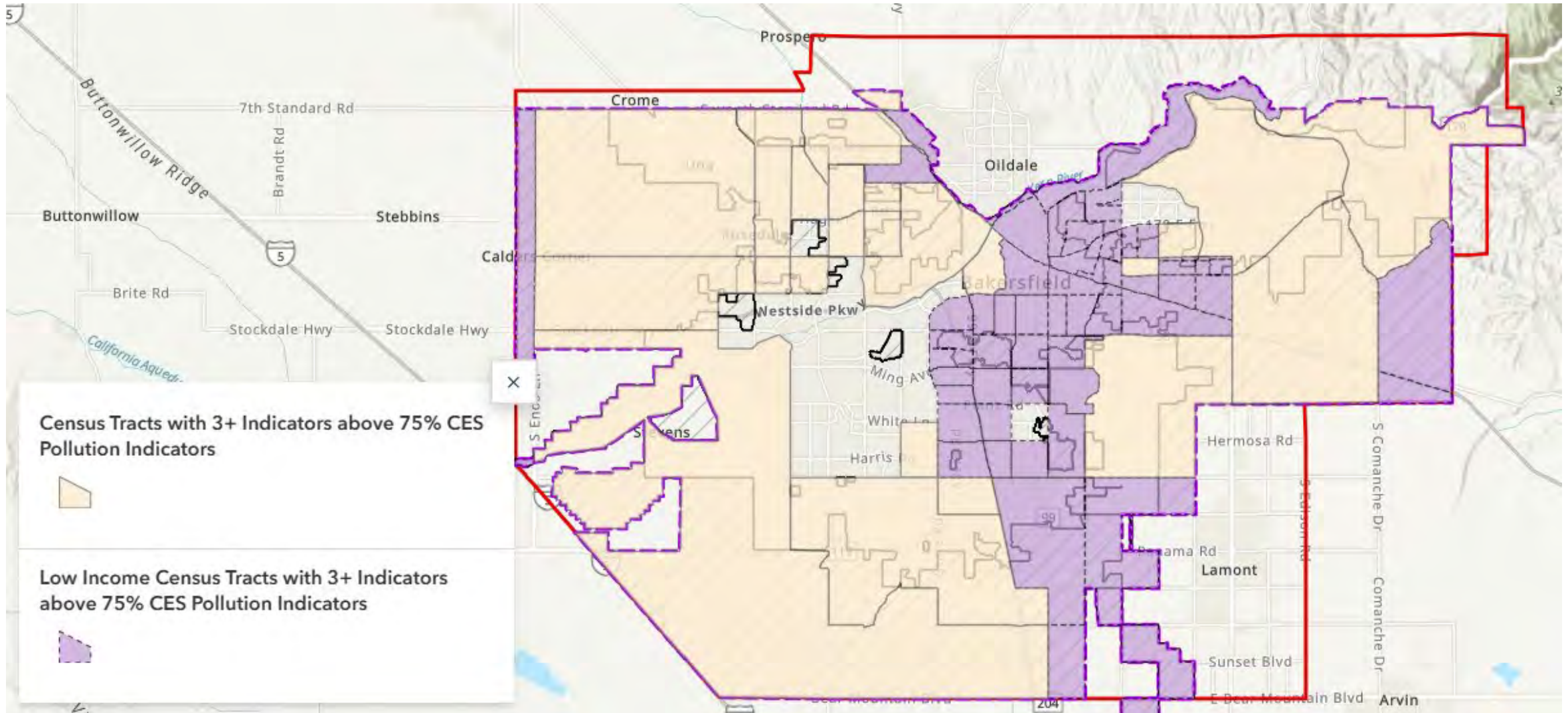
- **91%** of trips are by vehicle
- **73%** of trips are less than 5 miles

Regionally, for households with income under \$25k:

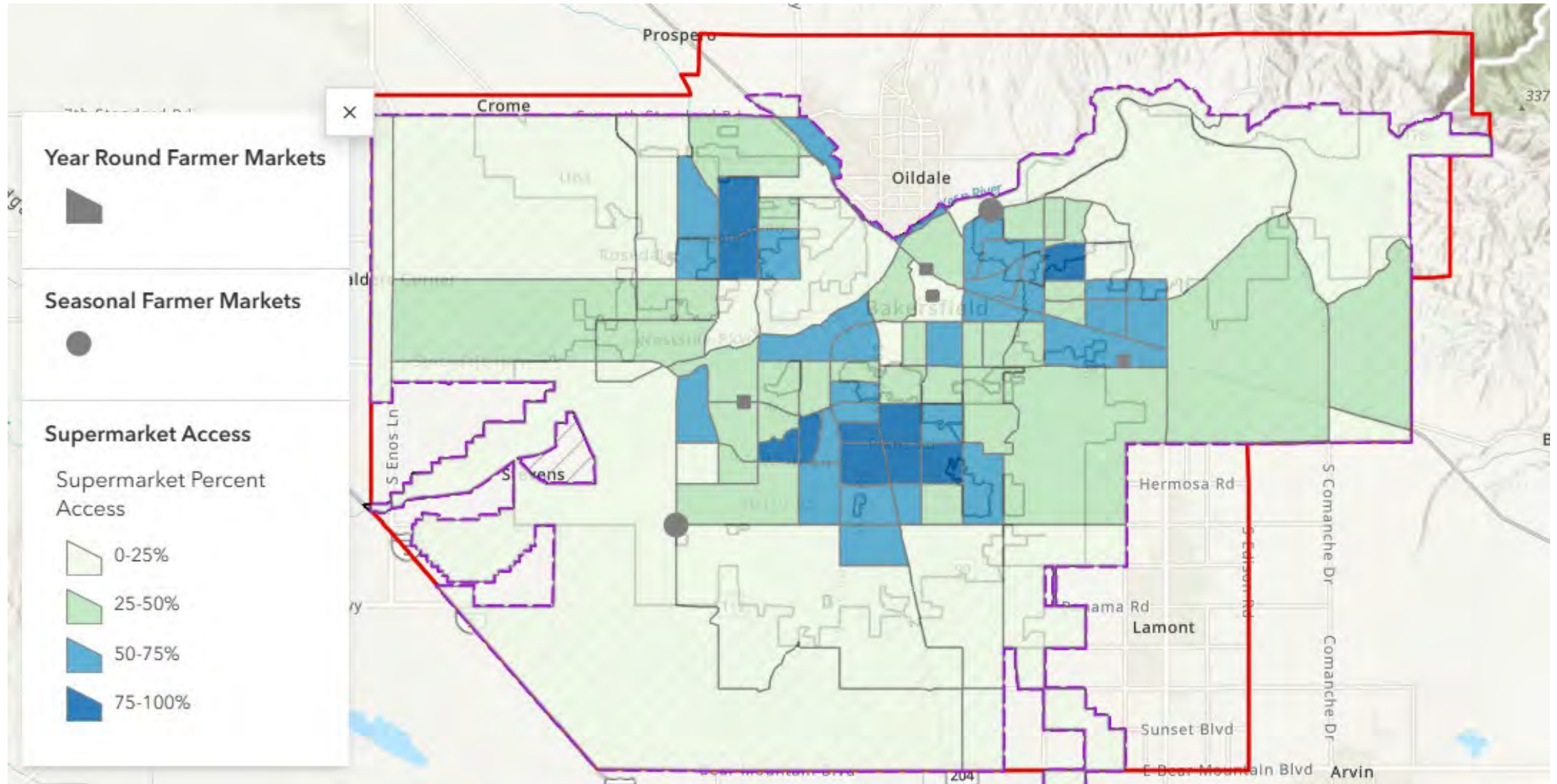
- Walking trips – 1.6x average
- Transit trips – 2.3x average
- Ridesharing trips – 4.6x average



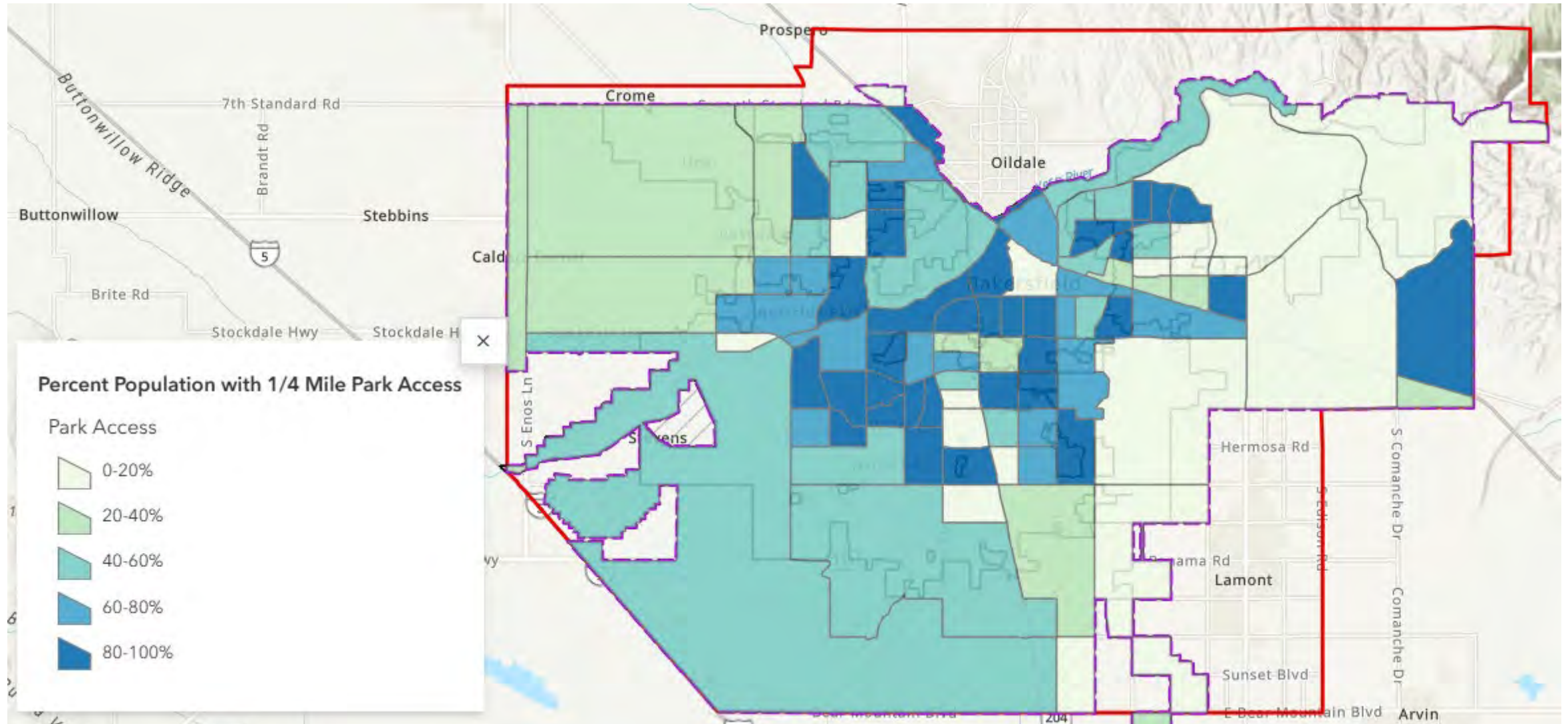
Low-income and Disadvantage Communities (LIDACs)



Food Insecurity and Access



Access to Parks and Open Spaces



Land Use & Transportation

Alternative Fuels and ZEVs



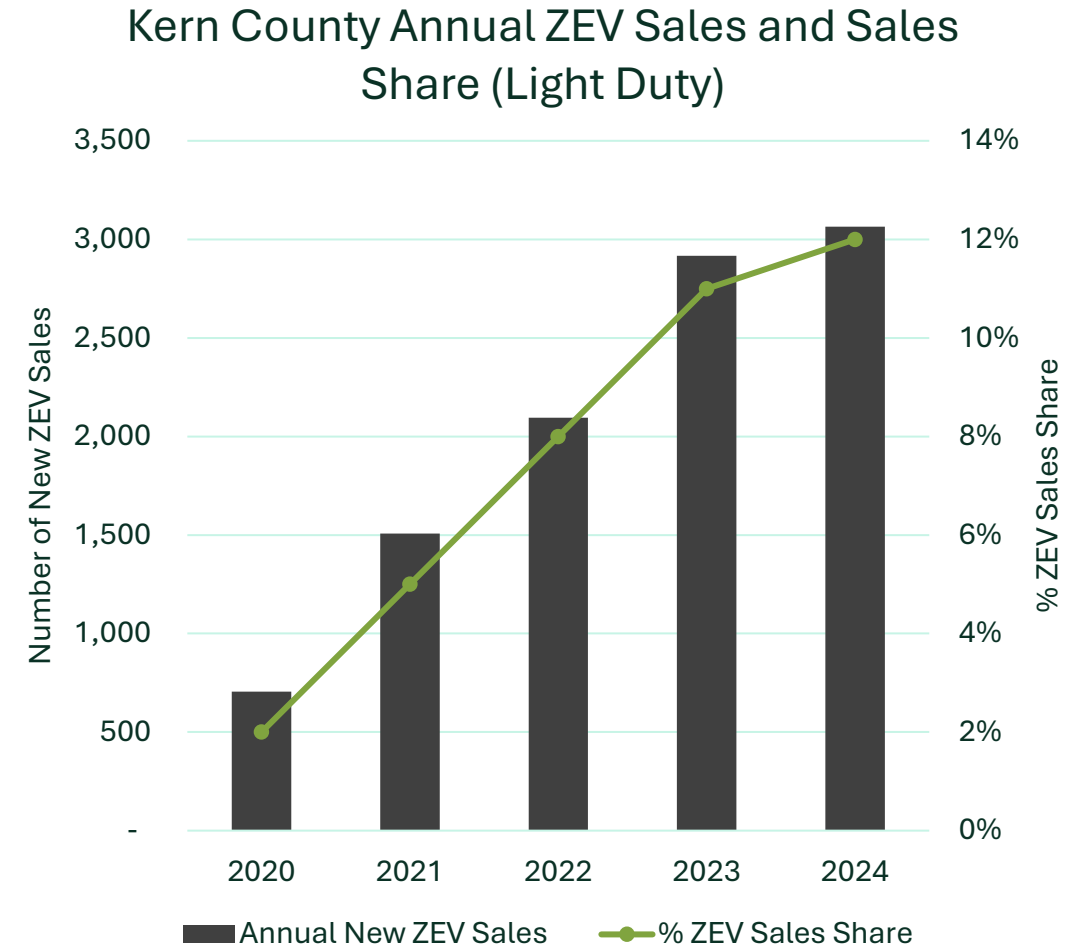
Zero-Emissions Vehicles

Zero-emission vehicle (ZEV) types

- Battery electric
- Plug-in hybrid electric
- Fuel-cell electric

ZEV Sales

- Over 440,000 new ZEVs sold statewide in both 2023 and 2024
- 3,065 new ZEVs sold in Kern County in 2024 – 12% of light-duty vehicle sales



Alternative Fuel Infrastructure

Current Public EV Charging Infrastructure

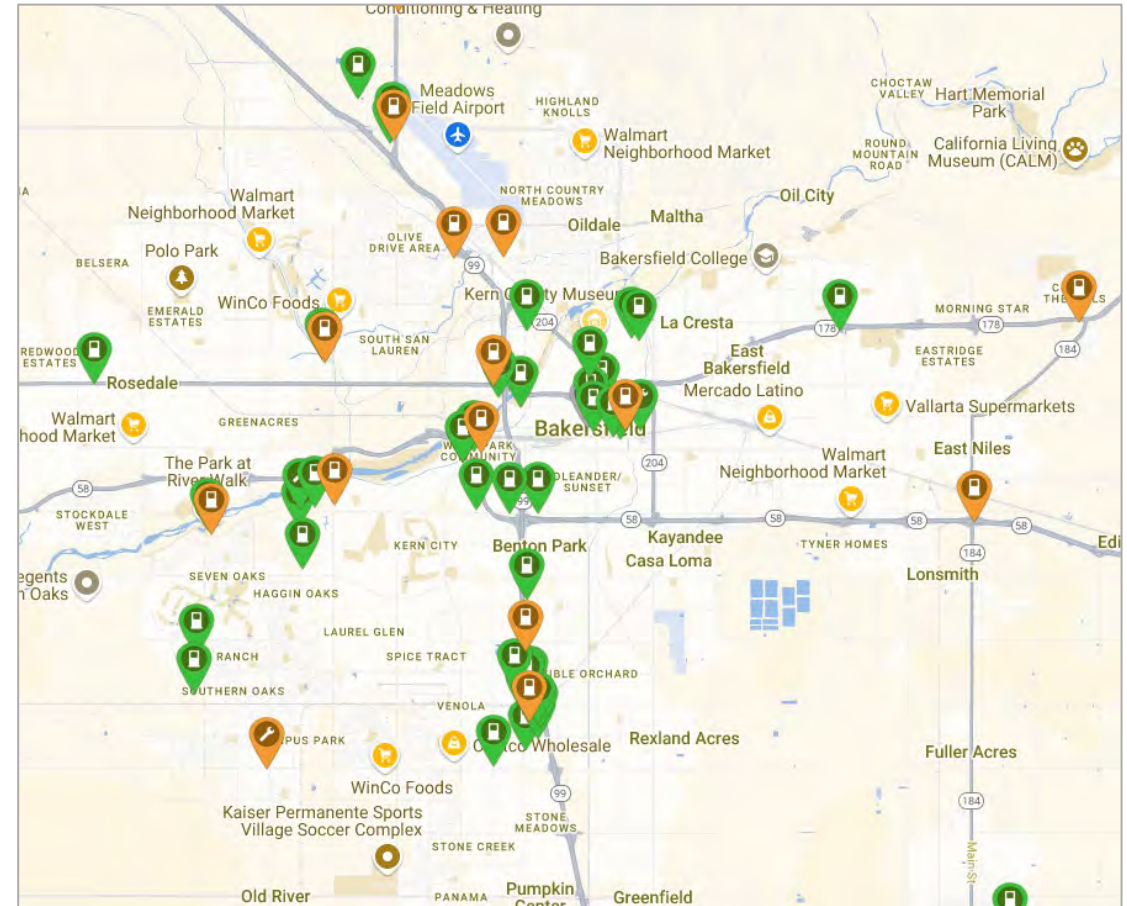
- 30 public EV charging stations at City facilities
- 322 public EV charging stations within 9 miles

Private EV Charging Infrastructure

- New construction required to have receptacles or chargers installed
- Multifamily development shows largest gap in charging access

Current Alternative Fuel Stations

- Renewable Diesel – 1
- Ethanol (E85) – 3
- Compressed Natural Gas (CNG) – 3



Sources: Department of Energy. 2025. Alternative Fueling Station Locator; ChargeHub. 2025. Bakersfield, California EV Charging Stations Info; Hsu and Fingerma. 2021. Public electric vehicle charger access disparities across race and income in California.



State Regulations and Goals for ZEVs

- Advanced Clean Cars and Trucks
 - By 2035, all new passenger cars, trucks, and SUVs sold in California must be zero emission vehicles (ZEVs)
- Innovative Clean Transit
 - Mandates public transit agencies to shift to 100% zero-emission buses, while also improving mobility and enhancing first and last-mile connectivity for riders
- CALGreen EV Charging Requirements
 - Multifamily, hotels, and motels must have 40% of parking spaces "EV Ready"
 - Single-family, duplex and townhomes must be "EV Capable"

Land Use & Transportation

Local and Regional Planning Efforts



Local and Regional Planning Efforts

Land Use

- Making Downtown Bakersfield Vision Plan (2018)
- Downtown Bakersfield Corridor Enhancement Master Plan (2021)
- Transformative Climate Communities Plan (2021)
- Downtown Bakersfield HSR Station Area Plan (In Progress)
- RISE Bakerfield (In Progress)
- KernCOG 2022 Regional Transportation Plan/Sustainable Communities Strategy (2022)

Electric Vehicles

- Kern County Electric Vehicle Charging Station Blueprint (2019)
- Kern County Blueprint for MD/HD ZEV Infrastructure (2023)

Active Transportation

- Kern COG Kern Region Active Transportation Plan (2018)
- Caltrans District 6 Bicycle and Complete Streets Program (2019)
- Kern COG and California Bicycle Coalition Downtown Bakersfield Pedestrian Access to Transit Plan (2020)
- Low Stress Bikeway Network in the Vicinity of Bakersfield High-Speed Rail Station (2020)
- Bakersfield Bicycle & Pedestrian Safety Plan (2020)
- City of Bakersfield Bicycle Master Plan (2013)

Transit

- Metropolitan Bakersfield Transit Center Study (2015)
- Commuter Rail Feasibility Study (2012)

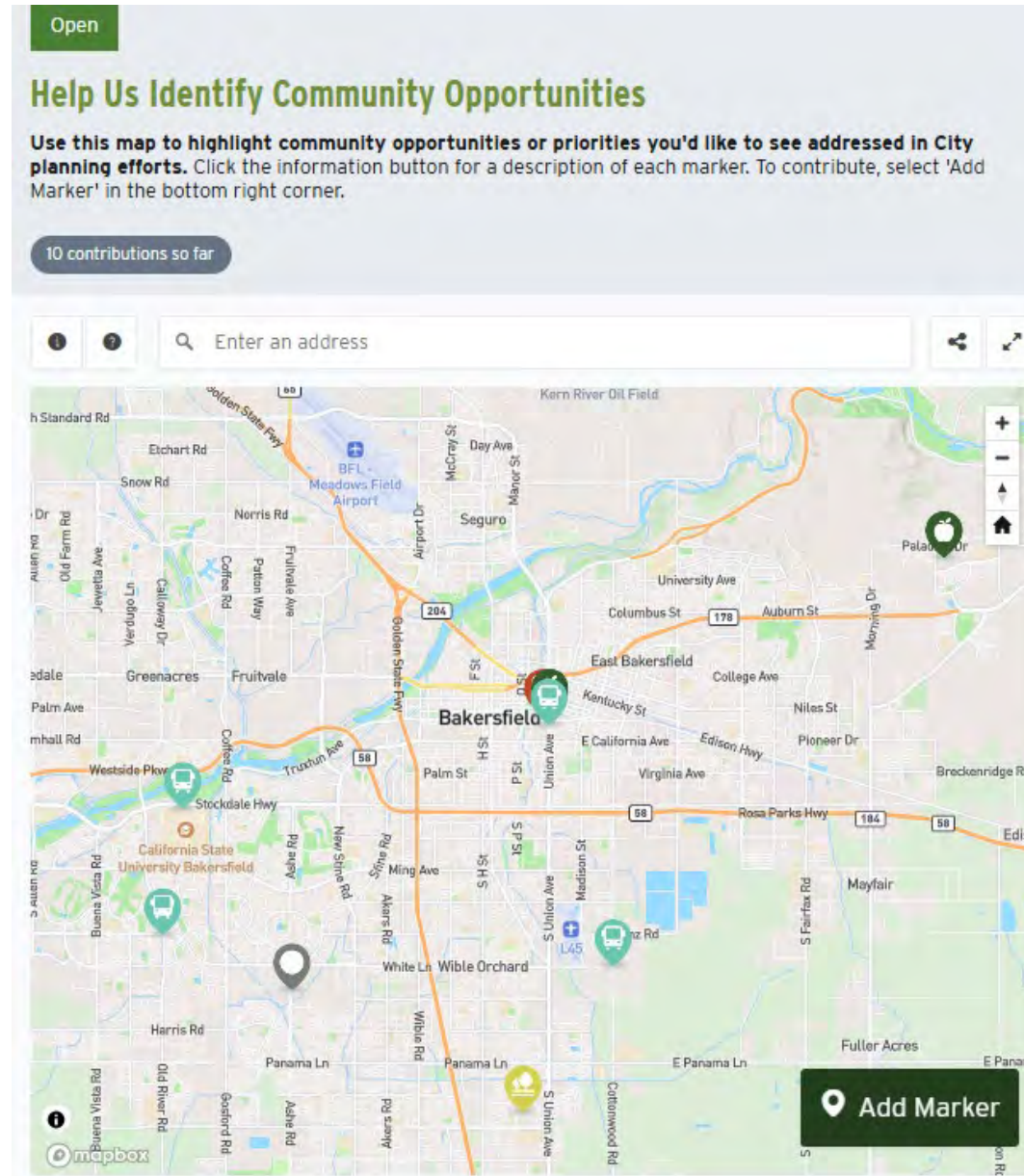
Questions?



Group Activity



Digital Engagement Hub/Map Activity



Map Categories



Climate Hazard Areas:

Locations prone to climate hazards such as flooding, drought, extreme heat, or poor air quality during fire season.



Transit Improvements:

Areas where improvements are needed for transit options, bike lanes, walking paths, or EV charging stations.



Water Conservation:

Locations facing water challenges or where water-saving projects could make Bakersfield more drought-resilient.



Food Access: Areas with limited access to fresh food, potential sites for community gardens, grocery stores, or farmers markets.



Air Quality Concerns:

Neighborhoods with air quality issues and opportunities for clean air solutions, especially in vulnerable areas.



Energy Upgrade Needs:

Areas where affordable cooling solutions, energy upgrades, and building improvements are necessary.



Nature Opportunities:

Potential areas to increase urban forests, trees, and healthy landscapes that promote biodiversity.



Workforce Support: Identify green job training programs, clean energy employment opportunities, or potential sites for economic development in Bakersfield.



Other: Additional concerns, ideas, or resources that should be flagged for consideration.

Ground Rules for Activity

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- “Step up” to voice your thoughts
- “Step back” to let others speak
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Next Steps

- **Next Advisory Group Meeting:** April 24, 2025 at 12:00 p.m.
- **Questions?** Email soar@bakersfieldcity.us
- **Scan the QR Code** to visit the project website for more information and to take the survey



Or type: qrco.de/soar-bakersfield

A photograph of a street at sunset. The sun is low in the sky, creating a warm, golden glow. On the left, there is a sidewalk and a chain-link fence. In the foreground, a tree branch with green leaves is visible. The street is paved and has white lane markings. Several white traffic cones are placed along the right side of the road. In the background, there are trees and a few parked cars. The text "Thank You" is overlaid in the center of the image in a large, white, sans-serif font.

Thank You

Advisory Group Meeting Schedule

Dates and Topics

January 30, 2025 @ 12:00 pm

- Meeting 1: Introduction / Adaptation

February 27, 2025 @ 12:00 pm

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March 27, 2025 @ 12:00 pm

- Meeting 3: Transportation / Land Use

April 24, 2025 @ 12:00 pm

- Meeting 4: Waste / Water / Wastewater

June 26, 2025 @ 12:00 pm

- Meeting 5: Nature-Based Solutions

August 28, 2025 @ 12:00 pm

- Meeting 6: Final List of Strategies & Implementation

AG Meeting #3 Group Discussion

No.	Key Discussion Priorities and Opportunities
1	
2	
3	
4	

Part 1 Q&A ()

1. How do we limit traffic in certain areas?
 - a. Phil - Looking at land use and design – having 15-minute neighborhoods such that people to access resources through active transportation
 - b. Rob Ball – Were seeing continued telecommuting that are double before the pandemic
 - i. Noted that strategies also reduce criteria pollutants. 1/3 or criteria pollutants are from commercial vehicles
2. Is there a push to eliminate single-family lots?
 - a. Phil – City isn't planning to require anything, but there is a shift toward smaller lot sizes.
3. Zac Meyers
 - a. There is a 2025 Active transportation plan that shows trails on Mt. Vernon that provides access to the college
 - b. They are working to create more trails along canals and identifying opportunities for Class4/separated bike trails
 - c. Lower car ownership per household in southeastern part of city so need transit improvements in that area

Part 2 Map Activity (20 min)

1. Rick - The downtown and east Bakersfield can use more bike and pedestrian infrastructure as well as tree canopy.

2. Freddy – what would make Bakerfield more livable – Additional Transit

- a. There were long travel times and waits to travel the City by transit
- b. It would be nice if Tejon Ranch was more accessible without at personal vehicle
- c. Have more public facilities – such as a restrooms and better accessibility – and create more of a riverwalk destination – Panorama Park

3. Savannah

- a. Transit - Benches, shade and shelter seemed to have disappeared; lack of infrastructure made waiting for transit not feel as safe
- b. People in the downtown area do not have access to an affordable supermarket. The only store is Smart and Final and it isn't an ideal location due to safety/cleanliness concerns

4. Rob Ball

- a. Sandland Ball park has opportunity for a “riverfront” type infill development adjacent to planned High Speed Rail
- b. Green Passes – a bypass for trucking to get trucks off of Union Ave, which runs through LIDACs. There is opportunity to push trucks down to Panama, which is a more direct route to Bakersfield.
 - i. A “Green pass” rerouting trucks to avoid sensitive receptors
 - ii. Removing trucks makes more opportunities complete streets development
- c. BRT system – one of the challenges is keeping the bus on time during peak hours due to bus being stuck in traffic. The plan requests jump lanes or ways the bus can get through during heavy congestion, such as dedicated lanes, bus lanes, or traffic timing on strategic corridors. As there is more infill, LOS is going to suffer. Need a plan in place such that as a corridor becomes more congested, there are opportunities to improve the ability of transit to keep up service time. Long-term vision is that BRT becomes a light rail.
 - i. Need to be identified in Long Range Transit Plan

5. Paul Acher

- a. The city received funding to create a zero City and address complete streets development in more vulnerable areas.
- b.

Attachment G

Stakeholder Advisory Group Meeting #4



Sustainable Opportunities
Advancing Resilience

Agenda

SOAR Bakersfield
Advisory Group Meeting 4 - Water, Wastewater, and Solid Waste
12:00 p.m. – 1:00 p.m.
April 24, 2025

Zoom Meeting ID: 812 9473 1106; Passcode: 236912

Link: <https://us06web.zoom.us/j/81294731106?pwd=MPTVkp1DEeUdLphE46LzpfHVmb484.1>

Discussion Items		Time
1.	Welcome	12:00 p.m.
2.	Water, Wastewater, and Solid Waste Presentation	12:05 p.m.
3.	Discussion – Water, Wastewater, and Solid Waste Opportunities	12:25 p.m.
4.	Next Steps	12:55 p.m.
5.	Next Advisory Group Meeting June 26, 2025, 12:00 - 1:00 p.m.	

Helpful Information:

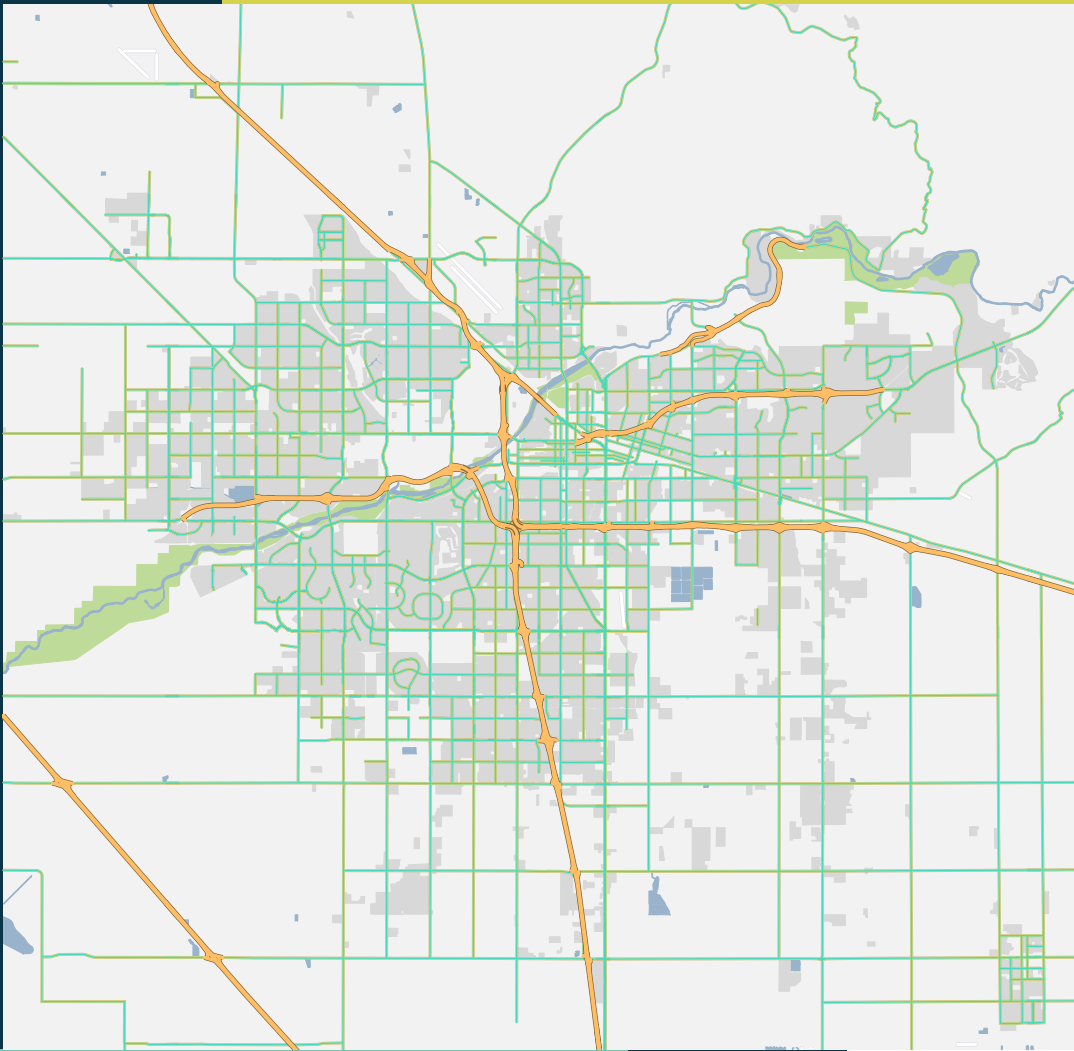
- Project Website: [SOAR Bakersfield | Engage Ascent](#)
- MURAL: [Advisory Group Water, Waste, and Wastewater Activity • ASCENT](#)



Sustainable Opportunities
Advancing Resilience

SOAR (Sustainable Opportunities Advancing Resilience) **Bakersfield**

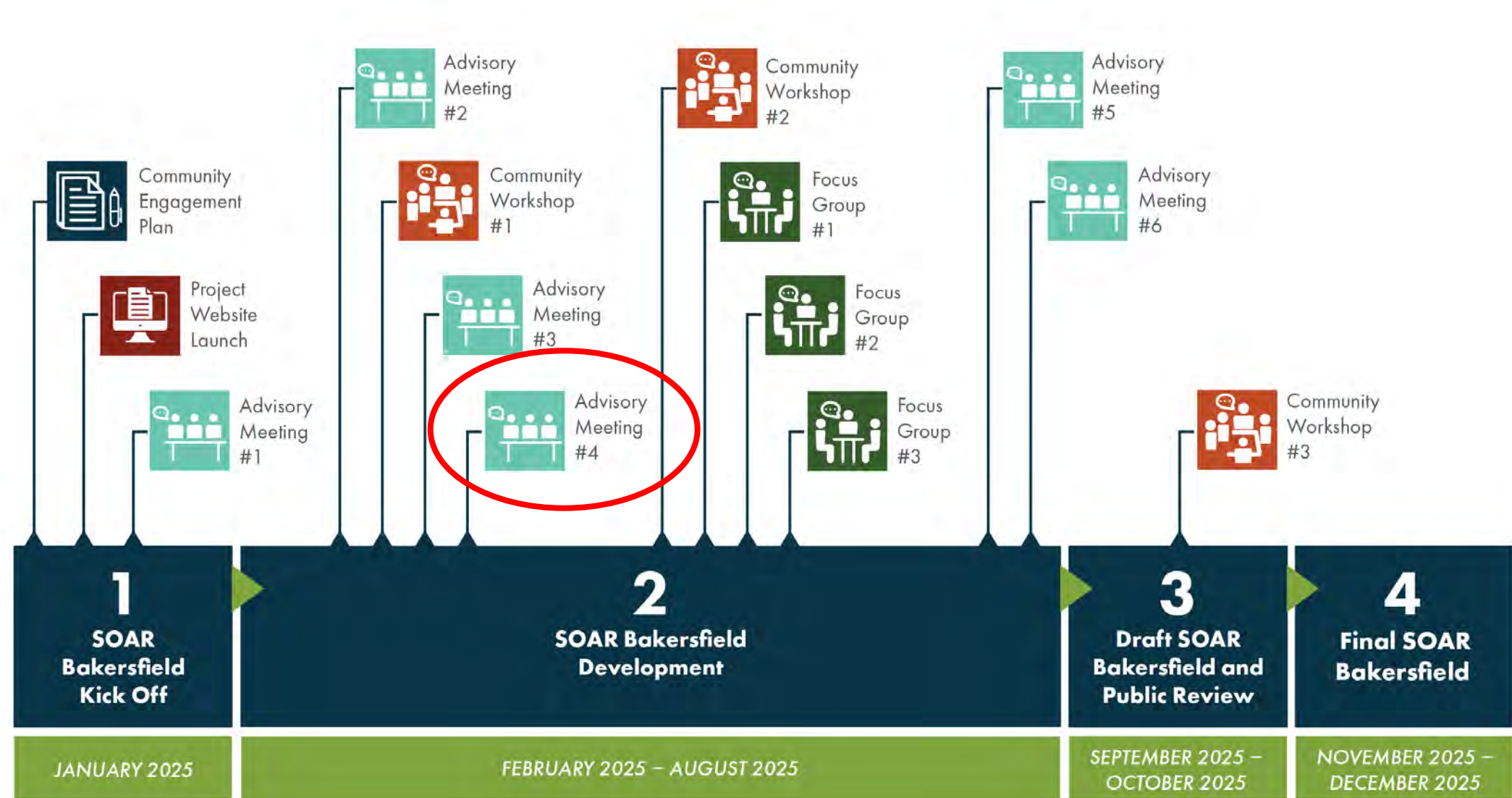
Advisory Group Meeting:
Water, Wastewater, and Solid Waste
April 24, 2025



Agenda

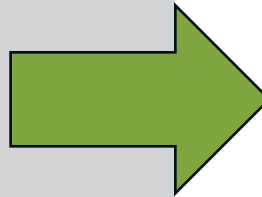
- Welcome
- Presentation
 - Water and Wastewater
 - Solid Waste
- Group Activity
- Next Steps

Project Schedule



EPA Required Components

1. Baseline assessment of greenhouse gas (GHG) emissions
2. Projections of future GHG emissions
- 3. Measures addressing main GHG emission sectors**
4. Analysis of:
 - a) Workforce capacity
 - b) Low-income and Disadvantaged Community benefits
 - c) Authority to implement
5. Meaningful engagement



- Electricity generation and use
- Commercial and residential buildings
- Transportation
- Industry
- Agriculture
- Natural and working lands
- Waste and materials management

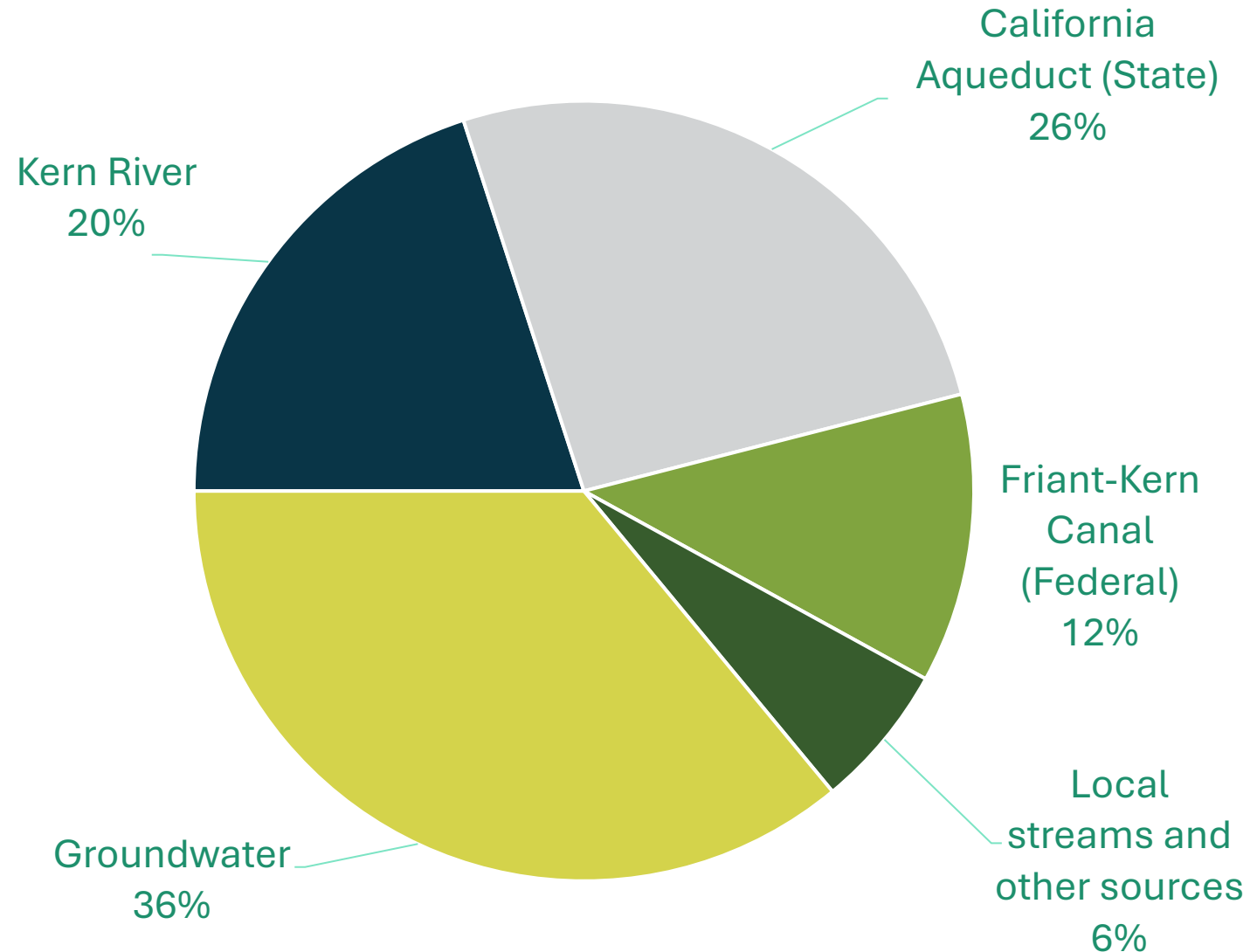
Water and Wastewater



Water Use Overview

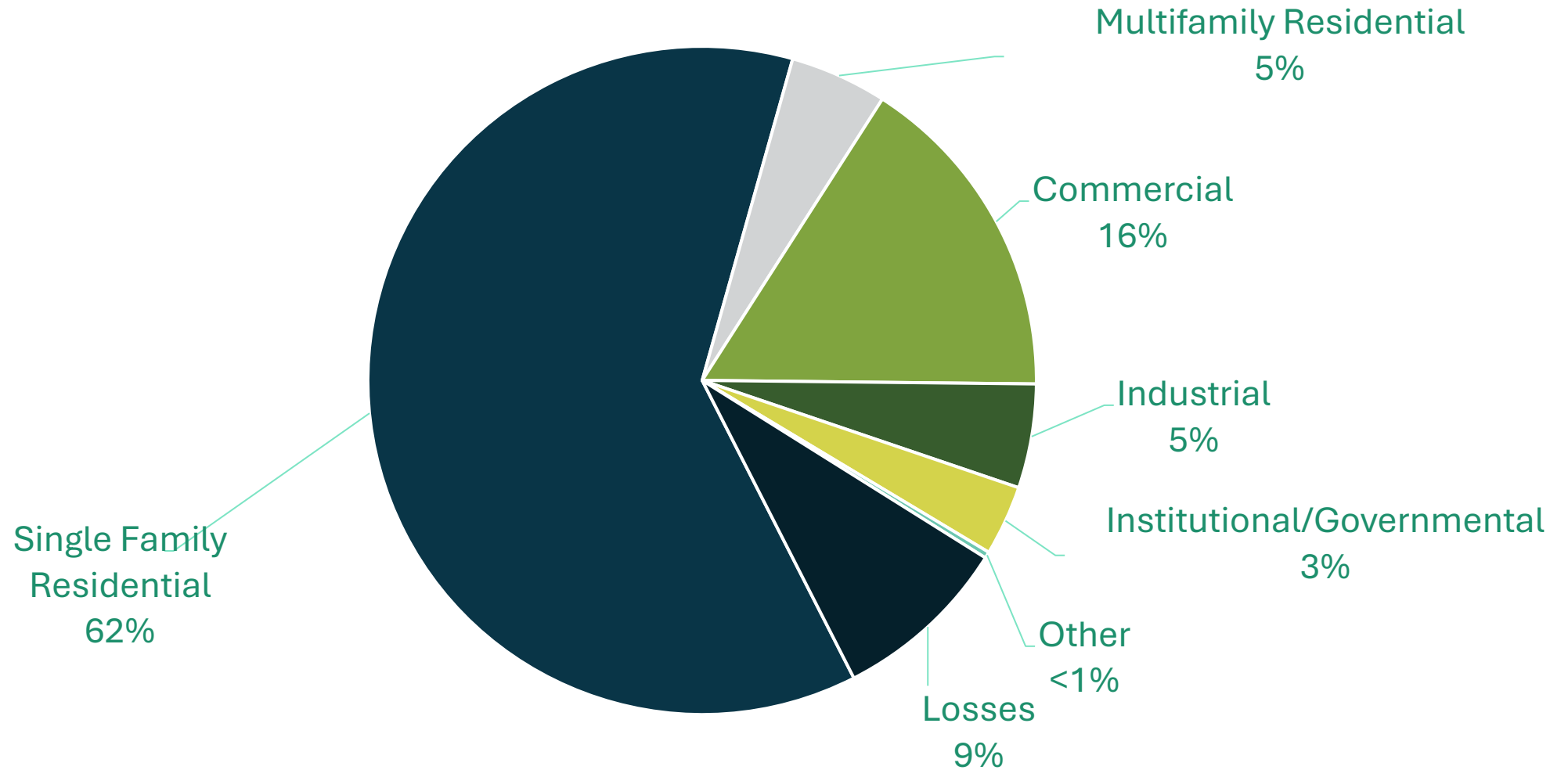
- Annual Precipitation in Bakersfield: 6.5 inches
- Water providers
 - Cal Water: serves 170,000 people (65% of city)
 - City of Bakersfield Domestic Water System: serves 211,400 people (35% of city)

Water Sources



Source: Water Association of Kern County

2020 Water Demand



Source: 2020 Cal Water and City of Bakersfield Urban Water Management Plan

Water Policies and Practices

- California Water Service
 - Rebates for water efficient appliances, sprinklers, and water-wise gardens and landscapes
 - Infrastructure improvements (e.g., replacing aging pipelines, updating treatment facilities)
- City of Bakersfield
 - Installing "smart" irrigation controllers in all City parks
 - Using recycled water for irrigation at Kaiser Permanente Sports Village
 - Converting to drought tolerant landscapes
 - Updating landscape standards and median irrigation practices
 - Water-efficient upgrades in public facilities
 - Promoting water conservation through education and incentive programs

Wastewater Overview

- The City operates two treatment plants, treating an average of 31 million gallons daily.
 - No. 2 is a trickling filter facility
 - No. 3 is an activated sludge plant facility

Type	No. 2	No. 3	Total
Average Daily Flow	13.7 million gallons per day	17.3 million gallons per day	31 million gallons per day
Methane Gas Produced	130,000 cubic feet per day	265,000 cubic feet per day	395,000 cubic feet per day
Staff	11	19	30

Wastewater Policies and Practices

- WWTP No. 2 and No. 3 upgrades
- Recycled water investments
- Public Education Campaigns
 - No Grease/No Drugs Down the Drain
 - Can't Flush Us
 - Only Rain Down the Drain
 - Safe Pool Draining Guidelines
 - Car Washing Best Practices



Water and Wastewater Opportunities

- **Lower Energy-Intensive Water Sources**
 - Increase allocations from less energy intensive sources
 - Local stream capture
- **Energy Efficiency**
 - Solar-powered or high efficiency pumps
 - Smart distribution systems
- **Reduced Demand**
 - Rebates and incentives
 - Water recycling programs
- **Infrastructure Improvement**
 - Energy-efficient treatment technologies
 - Biogas capture and energy generation



Solid Waste

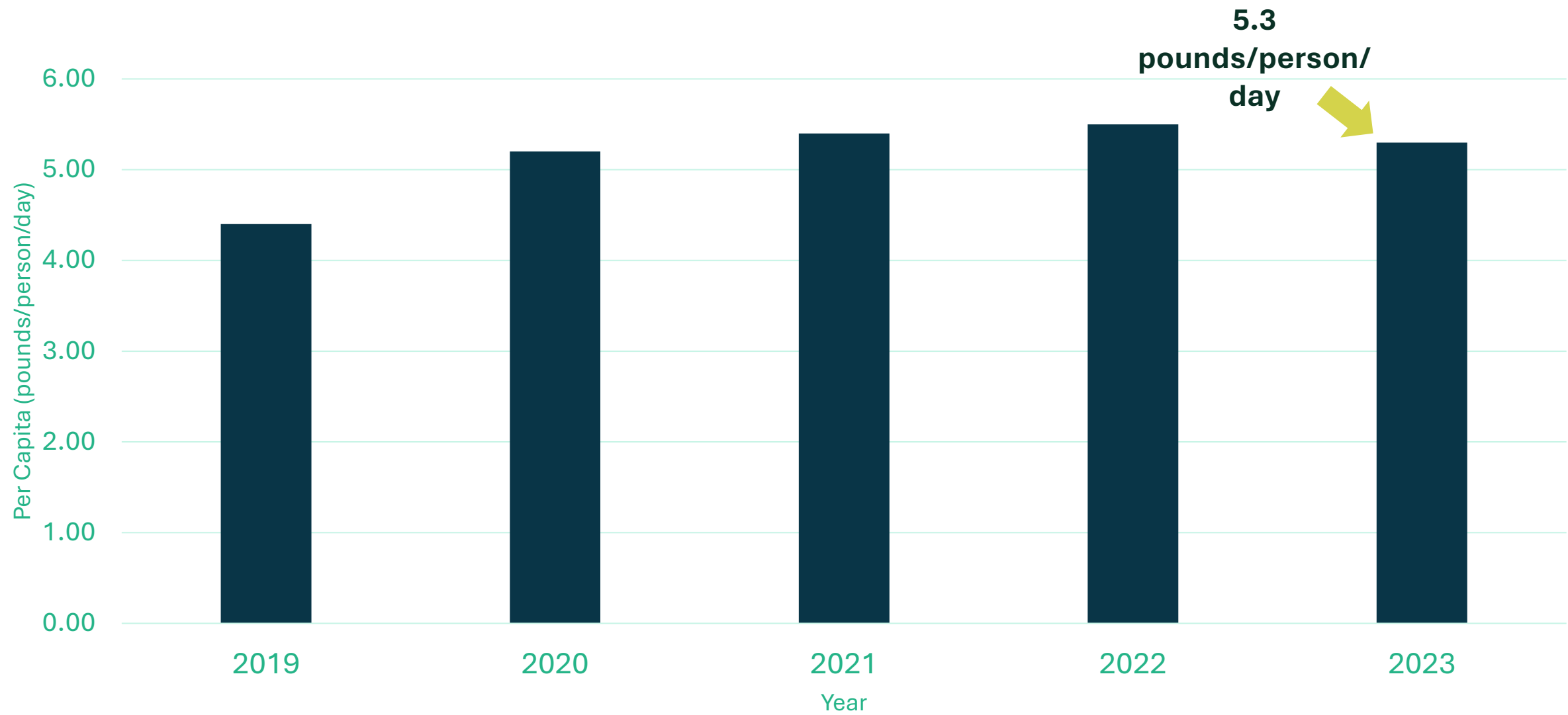


Waste Generation

- 395,000 tons of waste generated in 2023
- Waste Generation per person
 - Target: 5.4 pounds/day
 - Annual: 5.3 pounds/day
 - California average: 6.3 pounds/day

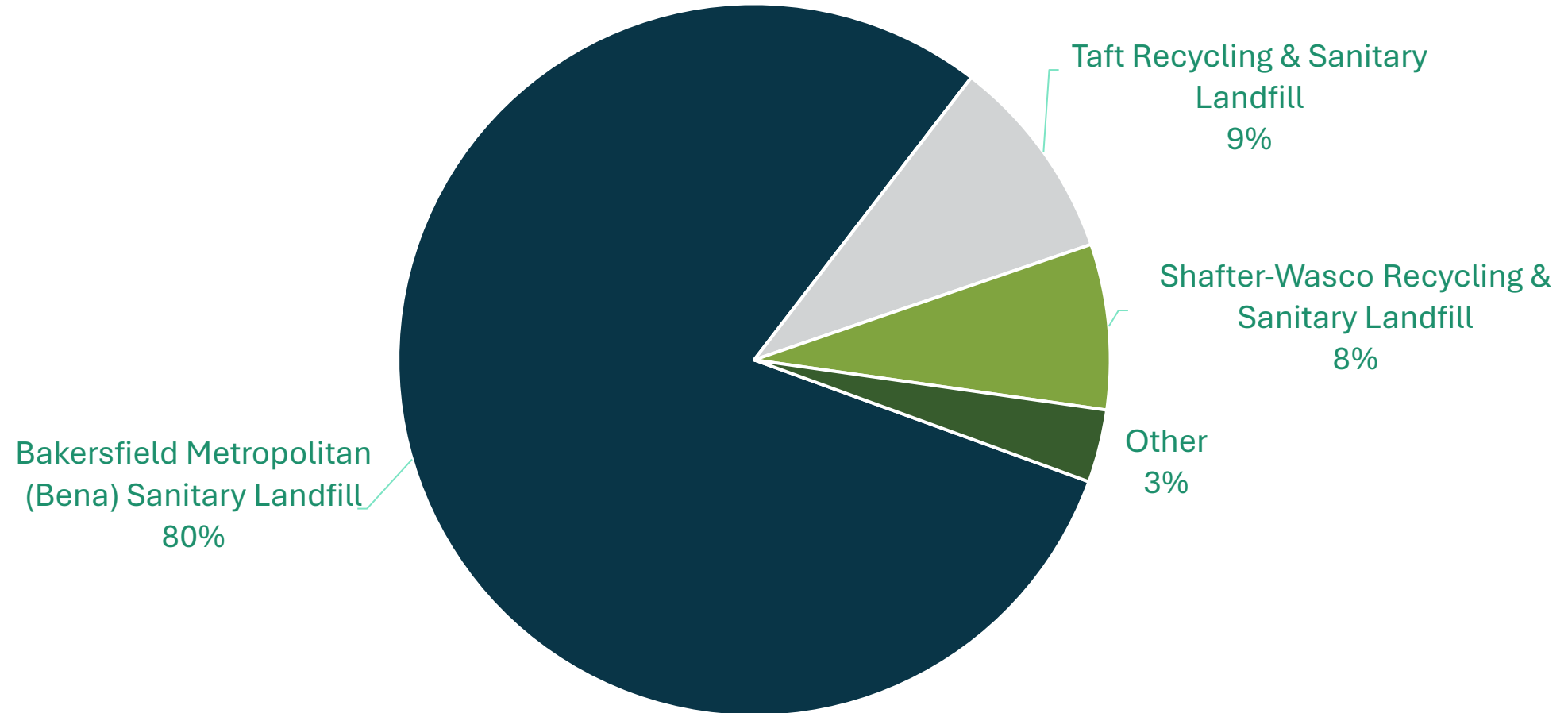


Per Capita Disposal Trends



Source: CalRecycle

Landfill Disposal Sites (2023)



Organic Waste Disposal

- **196,000** tons of food waste diverted from landfill in 2022
- Organic waste is taken to the City's **Mt. Vernon Green Waste Recycling & Composting Recycling Facility**
- Organic waste reduction benefits:
 - Reduced air pollution
 - Generates renewable energy
 - Less in landfills
 - Compost and resilient agriculture
 - Combats food security



Existing practices

- Three-Cart Collection System
- Weekly curbside pickup
- Bulky item pickup
- Illegal dumping clean-up
- Mobile app reporting
- Public education and outreach events
 - 22nd annual Great American Clean-up (4/26)
 - Freeway Litter Program
 - Keep Bakersfield Beautiful – volunteer cleanup and awareness
 - Mount Vernon Composting and Recycling Facility tours



Solid Waste Opportunities

- **Waste Diversion —**
Reducing landfill inputs
 - Expanded recycling programs
 - Organics collection for composting
 - Construction waste recovery
- **Landfill Management —**
Controlling emissions
 - Methane capture systems
 - Gas-to-energy conversion



Questions?



Group Activity



Water, Wastewater, and Solid Waste Opportunities

- In a large group discuss the following questions:
 - What innovative solutions could improve water, wastewater, and solid waste systems in Bakersfield?
 - How can we harness technology to support and strengthen these systems?
 - Which opportunities offer the greatest potential for economic, environmental, and social co-benefits for our community?
 - How can we ensure that sustainability efforts promote equity and resilience across all Bakersfield neighborhoods?
 - Which organizations could partner with the City to support planning and implementation?

Ground Rules for Activity

- Be here now
- One speaker at a time
- “Step up” to voice your thoughts
- “Step back” to let others speak
- Be additive, not repetitive
- Listen actively (seek to understand, keep an open mind)
- Help the facilitator to keep things on time

Next Steps

- **Next Advisory Group Meeting:**
June 26, 2025 at 12:00 p.m.
- **Sign up for workshops:**
 - In-person: 6/17 @ 6:00 PM
 - Virtual: 6/24 @ 6:00 PM
- **Questions?** Email
soar@bakersfieldcity.us
- **Scan the QR Code** to visit the project website for more information and to take the survey



Or type: qrco.de/soar-bakersfield

A wide-angle photograph of a river flowing through a landscape. In the foreground, the river is blue and calm. The middle ground shows a large, brown, earthen dam or embankment. Behind the dam, several high-voltage power line towers are visible against a hazy sky. In the far background, a range of mountains is visible under a clear sky. The text "Thank You" is overlaid in the center of the image in a large, white, sans-serif font.

Thank You

Advisory Group Meeting Schedule

Dates and Topics

January 30, 2025 @ 12:00 pm

- Meeting 1: Introduction / Adaptation

February 27, 2025 @ 12:00 pm

- Meeting 2: Buildings / Energy

March 27, 2025 @ 12:00 pm

- Meeting 3: Transportation / Land Use

April 24, 2025 @ 12:00 pm

- Meeting 4: Waste / Water / Wastewater

June 26, 2025 @ 12:00 pm

- Meeting 5: Nature-Based Solutions

August 28, 2025 @ 12:00 pm

- Meeting 6: Final List of Strategies & Implementation

Solid Waste

Example: Expand recycling programs

Example: Constuction waste recovery

Example: Methane capture system

Increase in home deliveries - Increasing education on recycling boxes

Engagement with Amazon/ home delivery services, to place more responsibility for waste reduction on the supplier

community benefits agreements

Additional education on what types of waste belong in each receptacle

AI to sort trash

Consider additional incentives for recycling (such as increased buyback value)

DOWNTOWN DAILEY TRASH COLLECTION VOLENTEERS: PEOPLE WHO WALK AROUND PICKING UP TRASH WITH VESTS AND UNIFORM LIKE IN VENTURA

MORE CENTRALIZED PUBLIC TRASH CANS THAT ARE SECURE AND MORE REGULAR MID BLOCK AND ON EACH CORNER

EARTH DAY SCHOOL WIDE CITY WIDE COLLECTION OF LITTER PROGRAMING?

Requests/contests for public ideas on innovative solutions for waste reduction and increased diversion

partner with schools

Evaluate solutions that have been effective in other cities

Explore considerations for odor/vector issues associated with organic waste

Analysis of where waste is coming from and the economic impacts of waste disposal

Water/Wastewater

Example: Increase local stream capture

Example: Solar-powered or high efficiency pumps

Example: Rebates and incentives

Example: Biogas capture and energy generation

Smart irrigation controllers for home landscaping

AI for monitoring leaks

Solar to offset energy costs

Education campaign around flushable materials (e.g., wipes)

Having lower cost options is critical, as there are many lower income residents in Bakersfield that can't afford the passing of costs.

Curtailing water use may be a hard ask for some residents, and options in SOAR need to consider what will be accepted by the public

WATER SENSORS THAT CAPTURE DATA REAL TIME FOR WATER LOSS

water reclamation systems, grew water reuse, de-salination?

Expand purple pipes in economically responsible way

Incentives and education could be effective in helping residents be more aware of high water use impacts

There should be more comprehensive public education campaigns (including solid waste)

City needs to develop a policy to absorb, as appropriate, existing mutual water companies inside/around the City limits (this is happening occasionally already)

The City is currently installing smart meters on select number of homes through grant funding, and is looking to install these throughout the service area

Turf replacement program

Trends towards multifamily and smaller lot sizes could reduce landscaping water use in the future

AG Meeting #4 Group Discussion

No.	Key Discussion Priorities and Opportunities
1	
2	
3	
4	

Attendees

1. Daniel Maldonado
2. Dave Dmohowski
3. Evette Roldan
4. Fhernandez
5. Jacqueline Aguilar
6. Karina Funez
7. Karl Davisson
8. Lizzy Stevens
9. Rob Duchow
10. Tomas Deltoro-Diaz
11. Reyna Olaguez
12. Russell Johnson

Part 1 Q&A ()

1. Frank Hernandez – Can we get data at the zip code level?

- a. Daniel – zip code data is not readily available, but can be looked at if desired. City of Bakersfield does the West side, while Cal Water does the East side. Which can provide some insights.
- 2. Rob Duchow
 - a. Where is WWTP No 1?
 - i. Evette – it was really just an older lift stations, but is not longer in operations
 - b. Why is methane production higher at WWTP No 3
 - i. WWTP typically accepts more grease and other organics that can influence additional production at No 3
- 3. Dave Dmohowski – question on what is edible food recovery?
- 4. Karl Davisson – how many units in the City are not connected to the sewer system?
 - a. This data is not currently tracked.

Part 2 Mural (20 min)

- 5. Banning wipes – There is nothing in place at the moment to ban wipes, but working with manufacturers to include language to not flush wipes
- 6. Is AI being used?
 - a. Daniel – the entire water system is on SCADA and can detect leaks quickly
- 7. Costs
 - a. Daniel – the City received grant funding to install about 5,500 smart meters at homes, so residents can monitor leaks and usage. Looking to expand to the entire City.
- 8. Education
 - a. The City offers incentives and education
 - b. They offer free audits for irrigation systems

9. Trends towards smaller lots and multifamily should be expected to reduce landscaping water consumption.

Attachment H

Stakeholder Advisory Group Meeting #5



Sustainable Opportunities
Advancing Resilience

AGENDA

SOAR Bakersfield | Advisory Group Meeting #5

Nature-Based Solution and Workforce Development

June 26, 2025 | 12:00 p.m. – 1:00 p.m.

Zoom Link:

<https://us06web.zoom.us/j/86818171670?pwd=9FJua7HXk8aI4HTKeFpJGs0aWbHCT8.1>

Discussion Items		Time
1.	Welcome	12:00 p.m.
2.	Presentation - Nature-Based Solutions - Workforce Development	12:05 p.m.
3.	Group Activity	12:25 p.m.
4.	Wrap Up and Next Steps	12:55 p.m.

DISCUSSION QUESTIONS AND MEETING TOPICS:

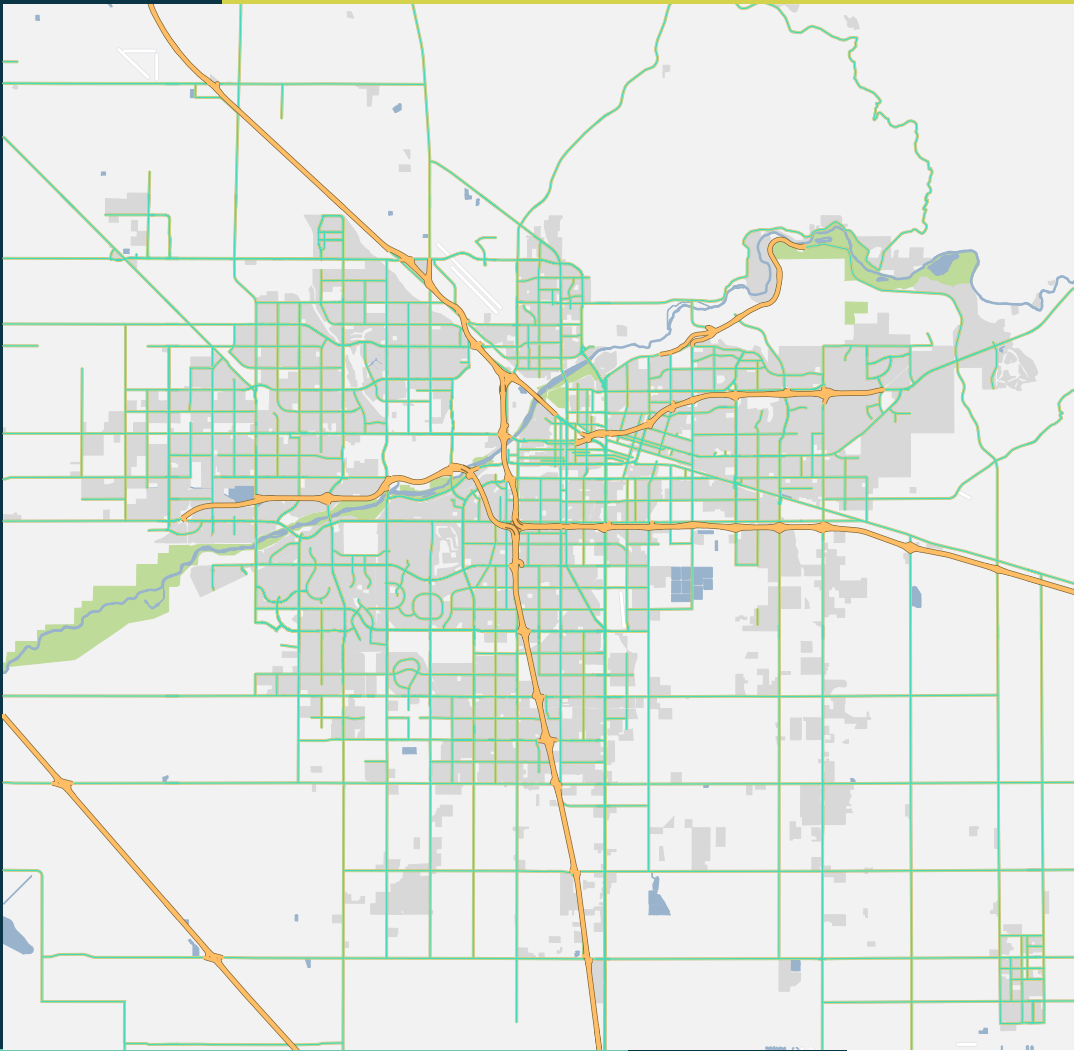
- **Nature-Based Solutions:**
 - o Where is tree cover most needed in Bakersfield?
 - o What challenges have you experienced (or do you foresee) in expanding the urban tree canopy?
 - o What are natural solutions to common problems experienced by people and businesses in Bakersfield?
- **Workforce Opportunities:**
 - o What workforce or skill gaps may be experienced with a transition to new technologies and sustainable solutions?
 - o How can high-quality jobs be more accessible for all Bakersfield residents?

SOAR

(Sustainable Opportunities
Advancing Resilience)

Bakersfield

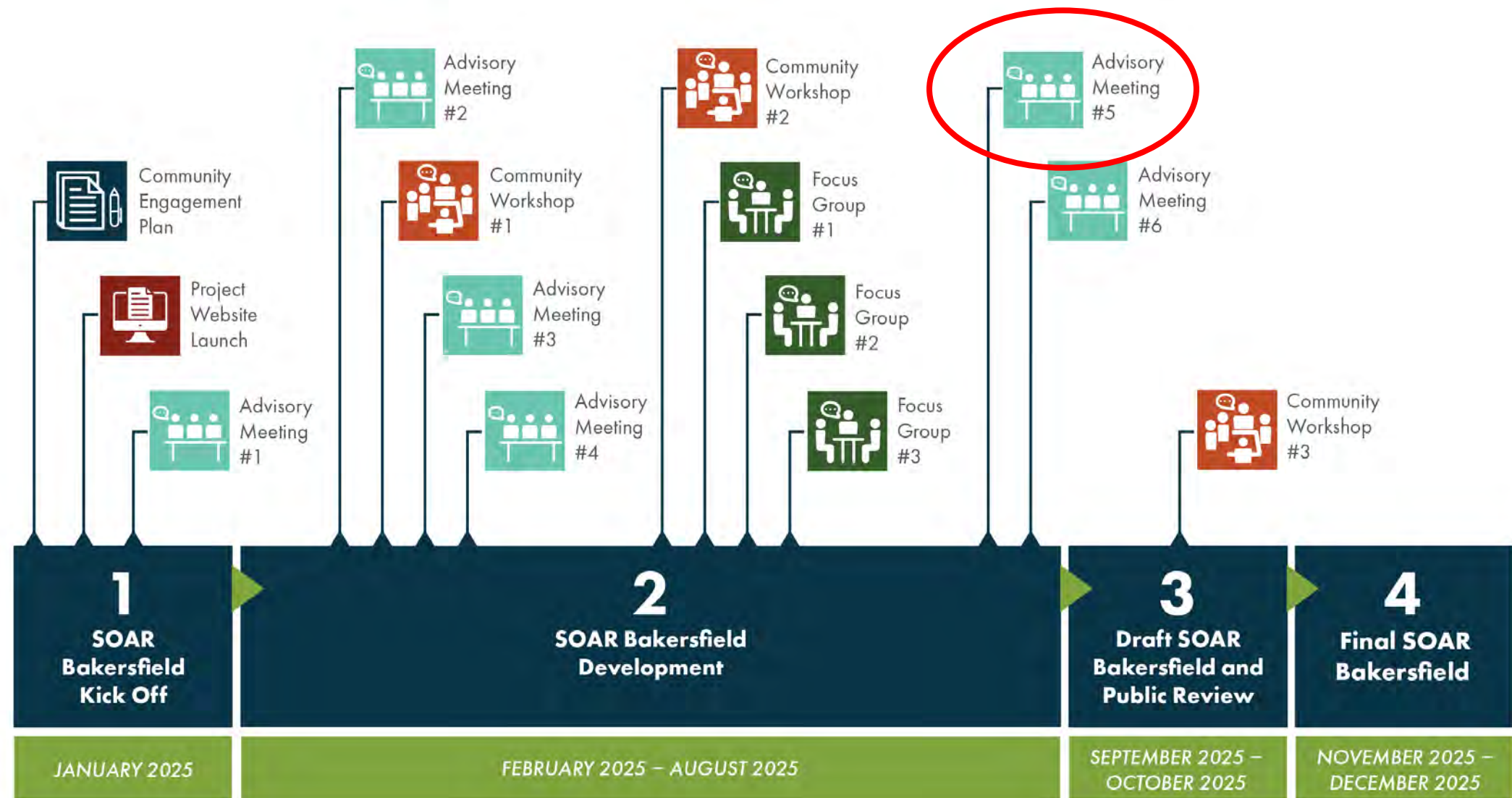
Advisory Group Meeting:
Nature-Based Solutions and
Workforce Development
June 26, 2025



Agenda

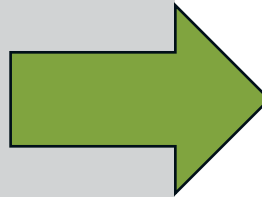
- Welcome
- Presentation
 - Nature-Based Solutions
 - Workforce Development
- Group Activity
- Next Steps

Project Schedule



EPA Required Components

1. Baseline assessment of greenhouse gas (GHG) emissions
2. Projections of future GHG emissions
- 3. Measures addressing main GHG emission sectors**
4. Analysis of:
 - a) Workforce capacity
 - b) Authority to implement
5. Meaningful engagement



- Electricity generation and use
- Commercial and residential buildings
- Transportation
- Industry
- Agriculture
- Natural and working lands
- Waste and materials management

Nature-Based Solutions



Definitions

- **Nature-based solutions:** Strategies that protect, restore, or manage ecosystems to address environmental challenges and provide benefits like enhanced biodiversity and climate resilience.
- **Natural lands:** Lands made up of native ecosystems, like forests, grasslands, deserts, riparian systems, and wetlands.
- **Working lands:** Lands used for economic purposes like farming, grazing, or timber production.
- **Ecosystem Services:** The many and varied benefits that humans derive from natural ecosystems, contributing to our well-being and survival.



Nature-Based Solutions Overview

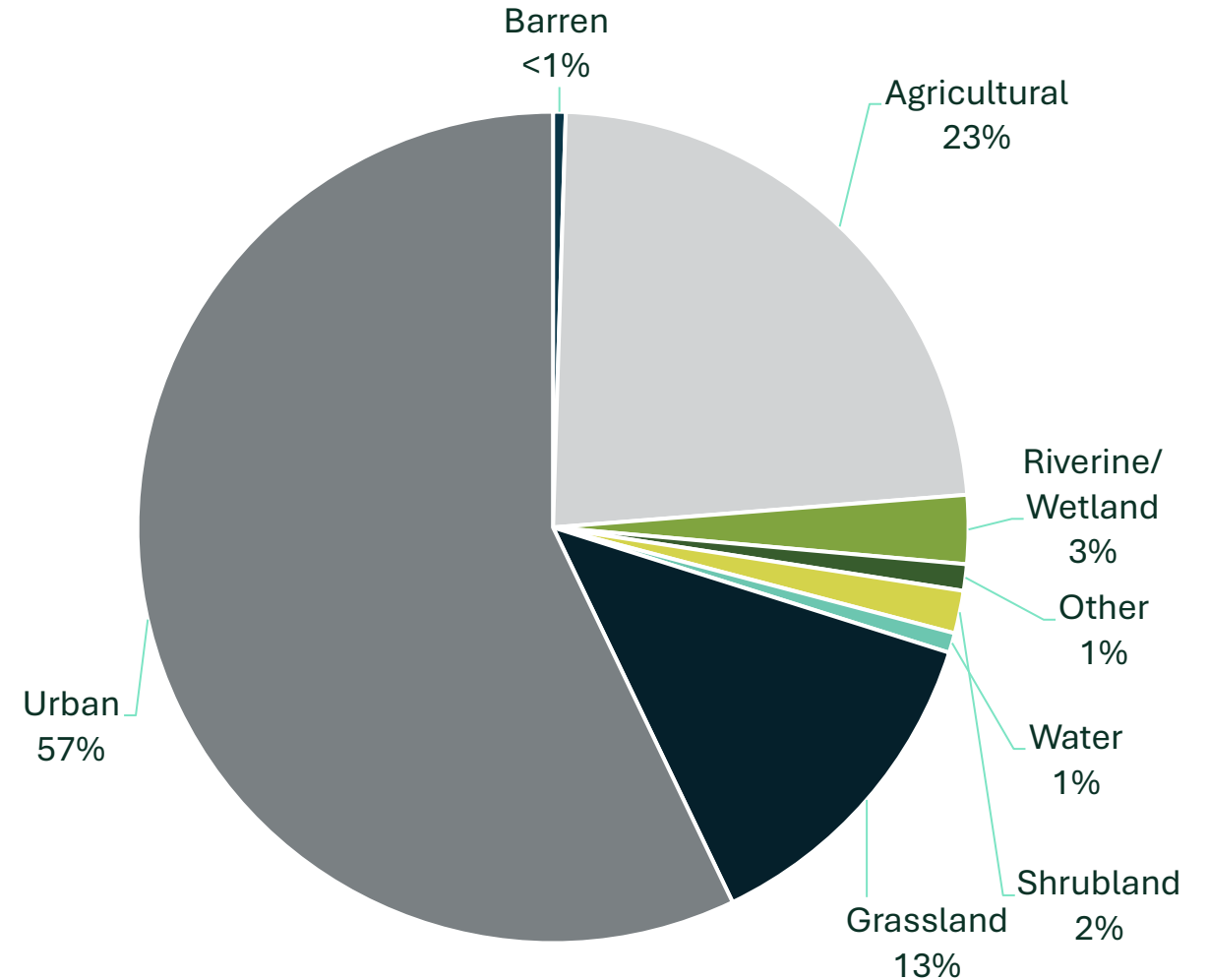
- Improve resilience to hazards and pollution reduction through natural land/soil protection and restoration
- Leverage “ecosystem services”, such as:
 - Shade trees
 - Vegetative pollution barriers
 - Healthy soils
 - Natural stormwater collection and treatment
 - Wetland and riverine habitats



Land Cover Overview

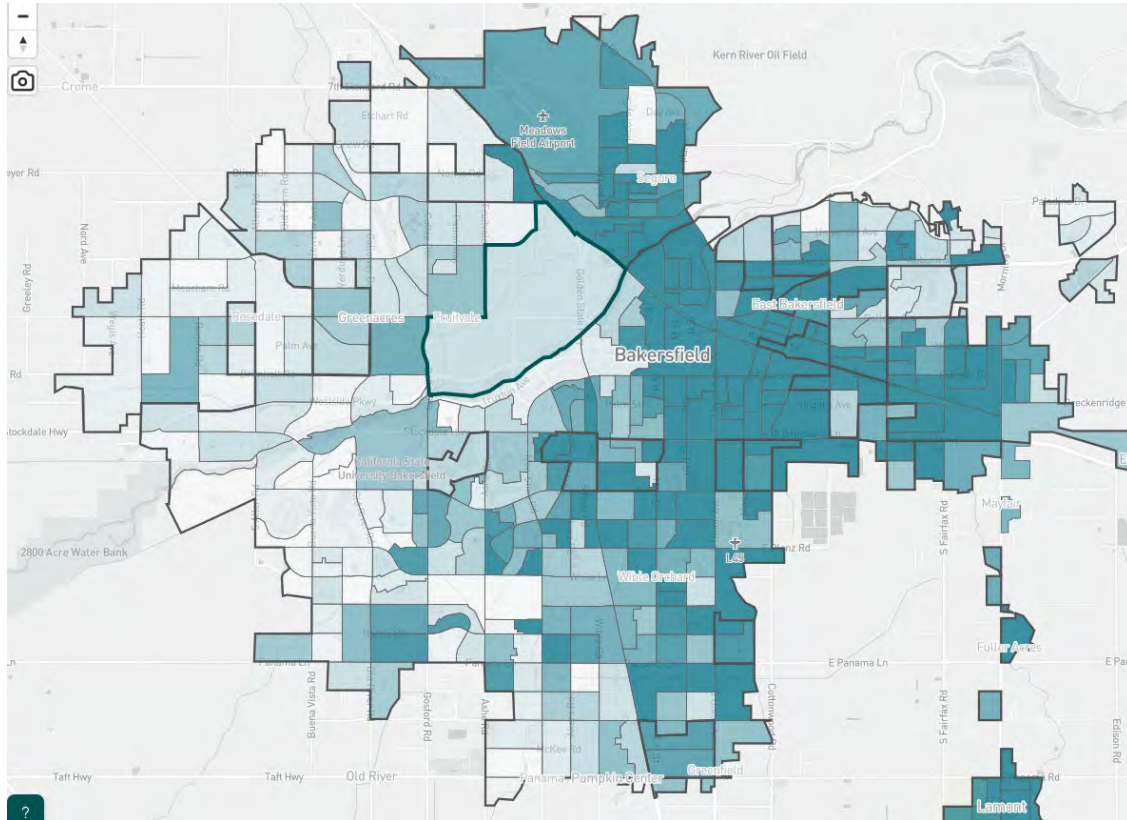
- City of Bakersfield covers approximately 100,000 acres
- All landcover types offer opportunities in Nature-Based Solutions
 - Urban trees and landscaping
 - Soil health in croplands and orchards
 - Kern River and associated wetlands
 - Natural vegetation in shrublands and grasslands

Land Cover Types City of Bakersfield

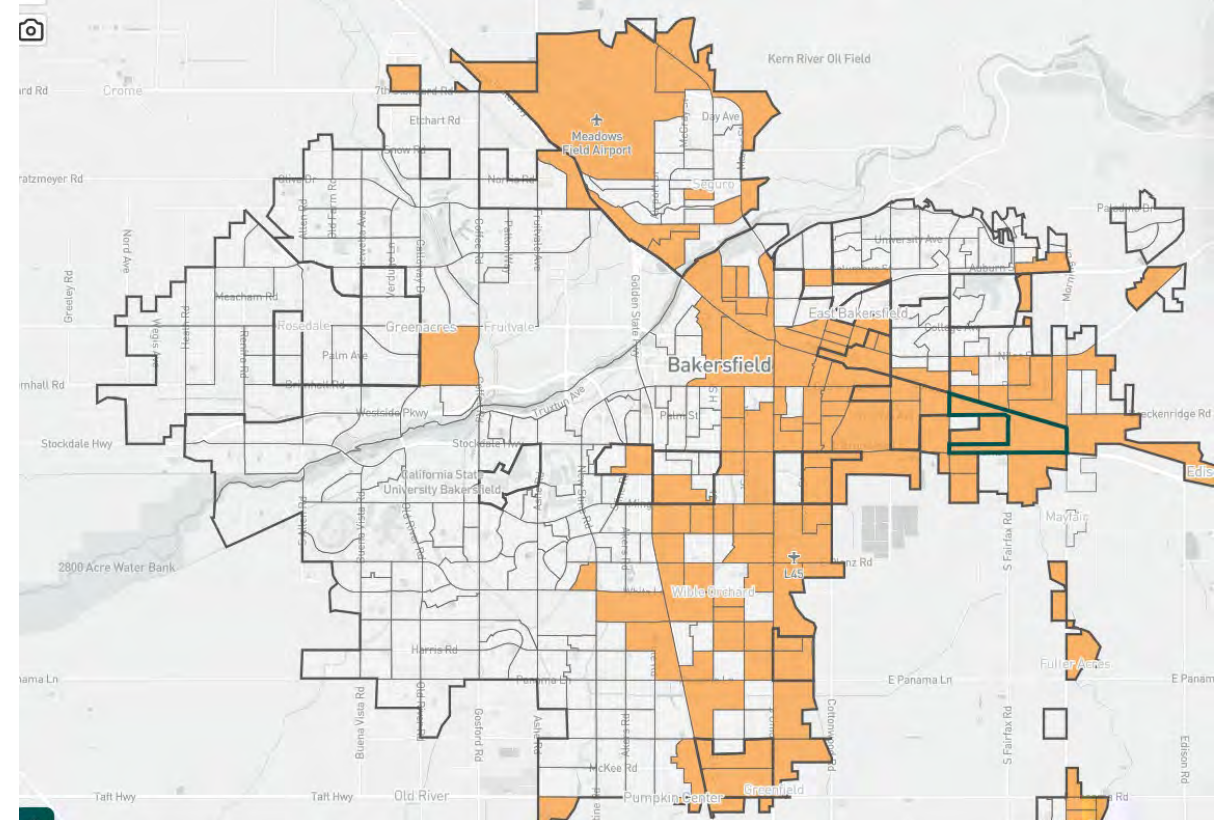


Tree Cover and Equity

People in Poverty (%)



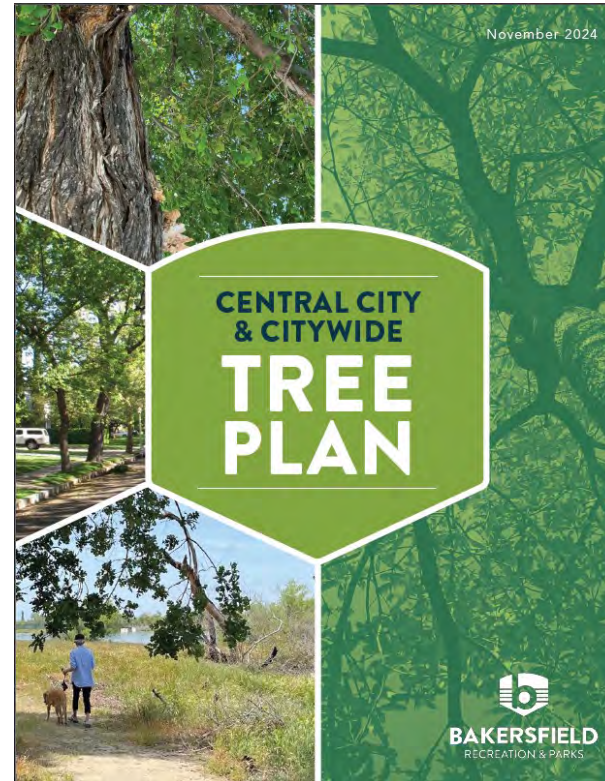
Tree Equity Score (<60)



Source: [Tree Equity Score](#)

City Plans Leveraging Nature-Based Solutions

- RISE Bakersfield (General Plan Update in progress)
- Kern River Parkway Management Plan
- Central City and Citywide Tree Plan



Workforce Development

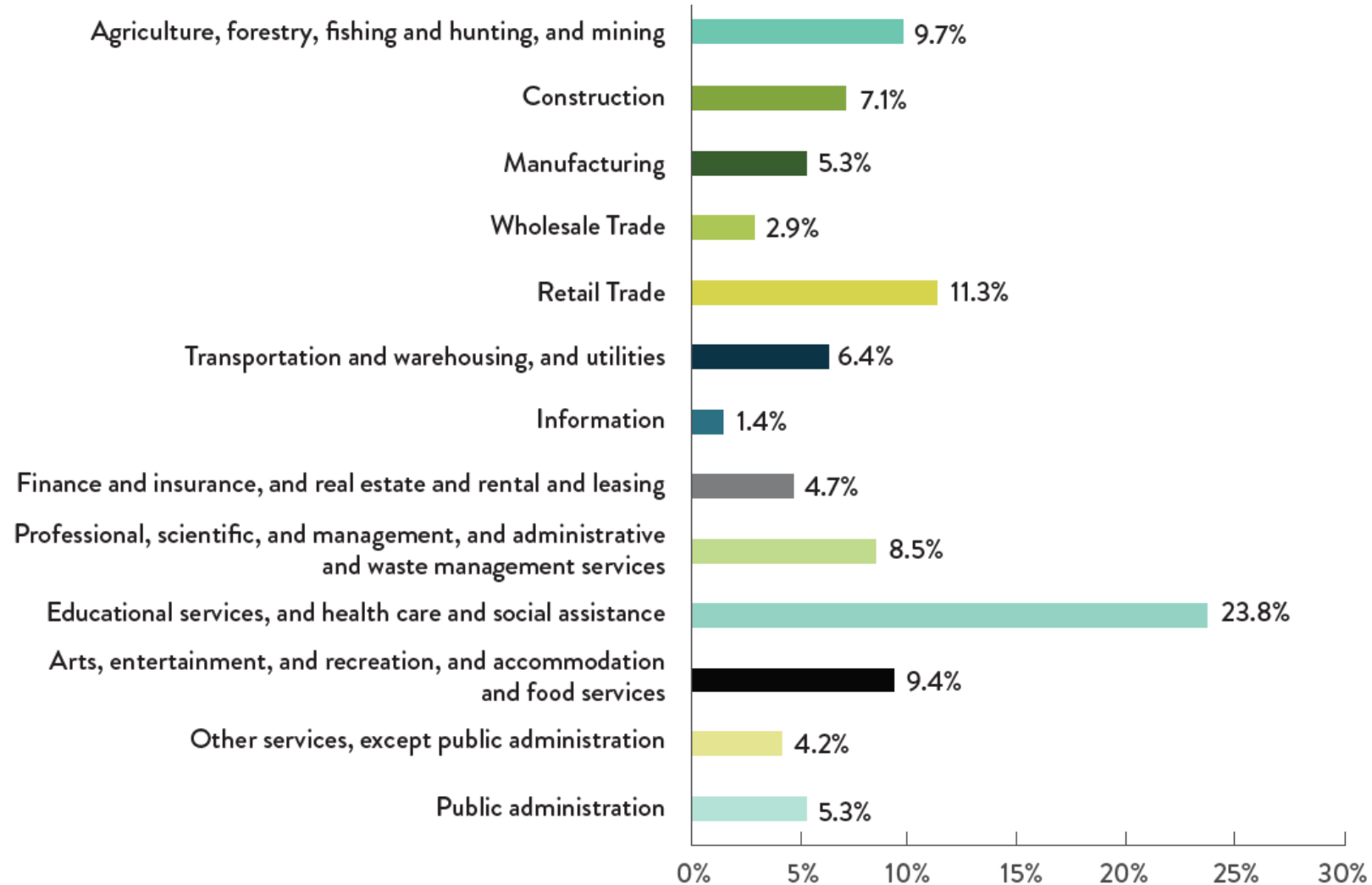


Workforce Development Overview

- A low-carbon and resilient Bakersfield requires a skilled workforce in various trades
- New industries and infrastructure projects offer employment and training opportunities



Current Employment by Industry



Source: RISE Bakersfield Existing Conditions Report

SOAR Bakersfield Opportunities, Jobs, and Skills

Opportunities

- Energy Efficiency Improvements
- Renewable Energy Sources
- Energy Systems Management
- Water Efficiency and Conservation
- Sustainable Building Materials
- Waste Reduction and Management
- Transit Service and Infrastructure

Jobs

- Energy Auditors
- HVAC Technicians
- Electricians
- Solar PV Installers
- Wind Turbine Technicians
- Plumbers
- Landscape Designers
- Construction Workers and Managers
- Recycling Managers
- EV Charger Installers
- Transportation Engineers
- Building Automation Technicians
- Transit Operators

Skills

- HVAC knowledge
- Installation techniques
- Manual dexterity
- Safety standards and compliance
- Energy systems knowledge
- Electrical skills
- Working at heights
- Plumbing
- Water conservation knowledge
- Construction management
- Organization
- Engineering
- Project management

Existing Training Programs

- **Kern Community College District**
 - Basic Construction Skills
 - Electric Vehicle Infrastructure Training
 - Solar Installation
 - OSHA Training
 - NFPA Electrical Safety
 - Industrial Maintenance Technician
 - Warehouse and Logistics Training
 - Workplace Literacy Training
- **America's Job Center of California**
 - No-cost training and job placement services
- **Bakersfield Adult School**
 - Recycling Lives
 - Computer Education
- **Kern High School District**
 - Career Technical Education Programs



Bakersfield Adult School
LEARNING FOR LIFE

Questions?



Group Activity



Nature-Based Solutions and Workforce Opportunities

In a large group, discuss the following questions.

- Nature-Based Solutions:
 - Where is tree cover most needed in Bakersfield?
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 - What are natural solutions to common problems experienced by people and businesses in Bakersfield?
- Workforce Opportunities:
 - What workforce or skill gaps may be experienced with a transition to new technologies and sustainable solutions?
 - How can high-quality jobs be more accessible for all Bakersfield residents?

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Next Steps

- **Next Advisory Group Meeting:**
August 28, 2025 at 12:00 p.m.
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August 28, 2025 @ 12:00 pm

- Meeting 6: Final List of Strategies & Implementation

Nature-Based Solutions

Where is tree cover most needed in Bakersfield?

Fairfax, Mnt Vernon, Niles.

At schools

Arterials without medians

adding trees to collectors?
(roadways)

What challenges have you experienced (or do you foresee) in expanding the urban tree canopy?

water supply

Cost for maintenance

appropriate species choice for the area's climate

long term maintenance planning

Vandalizing, reports of tree and irrigation theft

What are natural solutions to common problems experienced by people and businesses in Bakersfield?

Tree canopy cover to address extreme heat and air pollution issues

Workforce Development

What workforce or skill gaps may be experienced with a transition to new technologies and sustainable solutions?

Accessibility to continuous education

lack of health care professionals due to lack of training slots

Lack of teachers in certain professions - health care/energy/other trades

How can high-quality jobs be more accessible for all Bakersfield residents?

Local Business Partnerships with Educational Institutions

Provide on-the-job training opportunities while students are in school and programs to have built up hours of experience when programs are complete

Potential partnerships with unions to support training or opportunities or reduce risk for companies offering training

Specific certifications for green industrial technology and software to support industries

expansion of technical and health care education

Certification for electricians and plumbing

robotics maintenance

AI replacing analytics positions

Lack of post-secondary opportunities in Kern County. Ag and extraction not represented in education even though large drivers of economy

Attachment I

Stakeholder Advisory Group Meeting #6



Sustainable Opportunities
Advancing Resilience

AGENDA

SOAR Bakersfield | Advisory Group Meeting #6

Priority Measures and Implementation

August 28, 2025 | 12:00 p.m. – 1:00 p.m.

Zoom Link:

<https://us06web.zoom.us/j/81943634951?pwd=sX2hn5C1YscgyPwCKvHYJxOaPX8fre.1>

Discussion Items		Time
1.	Welcome	12:00 p.m.
2.	Presentation and Activity Introduction	12:05 p.m.
3.	Mural Activity and Discussion – SOAR Bakersfield Draft Measures	12:10 p.m.
4.	Wrap Up and Next Steps	12:55 p.m.

ATTACHMENTS AND ACTIVITY:

SOAR Bakersfield Draft Measures Word Document:

To have as much time as possible for discussion and the activity, please review the SOAR Bakersfield Draft Measures document before the meeting. Feel free to provide feedback and comments within the document itself. Comments can be emailed to: soar@bakersfieldcity.us

Mural Board Group Activity Link

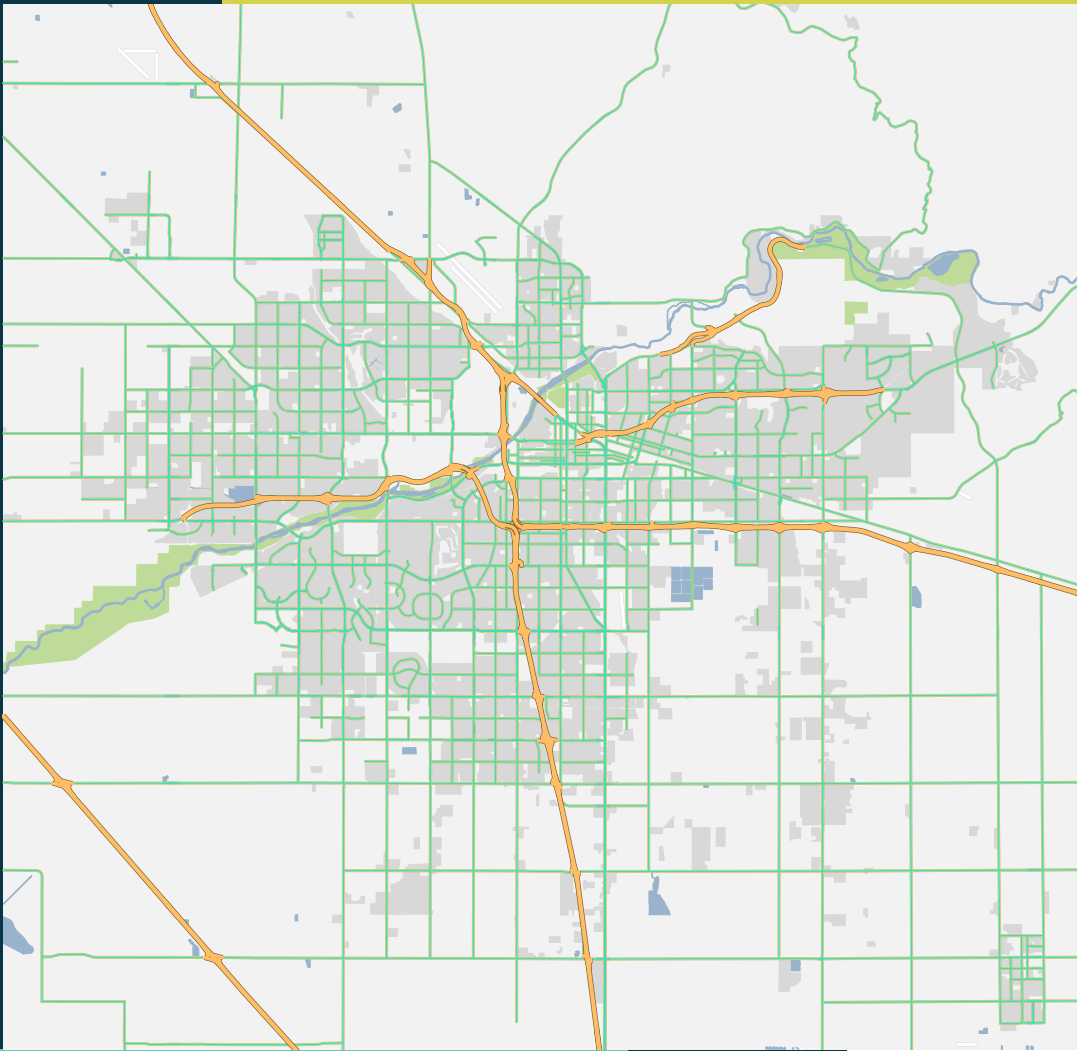
[Advisory Group #6: SOAR Bakersfield 8.28.25](#)



Sustainable Opportunities
Advancing Resilience

SOAR (Sustainable Opportunities Advancing Resilience) **Bakersfield**

Advisory Group Meeting #6
Priority Measures and Implementation
August 28, 2025



Agenda

- Advisory Group Recap
- SOAR Bakersfield Draft Measures
- Group Activity
- Next Steps

Advisory Group Recap



- Brought together local partners with diverse backgrounds and expertise
- Fostered collaboration and shared learning
- Met six times during the project:
 - **Meeting 1 (1/30/25)** – Kick off
 - **Meeting 2 (2/27/25)** – Building & Energy
 - **Meeting 3 (3/27/25)** – Land Use & Transportation
 - **Meeting 4 (4/24/25)** – Water, Waste, & Wastewater
 - **Meeting 5 (6/26/25)** – Nature-Based Solutions & Workforce
 - **Meeting 6 (Today)** – Priority Measures
- Provide insight on SOAR Bakersfield topics such as:
 - Supporting the local economy
 - Guiding development and growth
 - Enhancing local resources and city services
 - Creating opportunities for communities and businesses

Project Schedule



SOAR Bakersfield Goals

Sustainability

- Reduce electricity use, fuel use, landfilling waste
- Manage natural lands and open space
- Spur green industries and investments

Resilience

- Improve heat resilience
- Implement nature-based solutions
- Reduce air pollutants and wildfire smoke exposure

Community Benefit

- Reduce energy and transportation costs
- Enhance services for underserved communities
- Reduce pollution burden



Measures Development Process

SOAR Bakersfield Draft Measures were developed through:

- Review of existing plans and studies related to land use, transit, energy efficiency, urban greening, and other topic areas
- Compilation of planned or partially-funded City projects and programs
- Engagement with community members, organizations, and regional governmental entities

Measures Structure and Discussion Questions



- How can local/regional organizations help implement measures?
- Are there recommended revisions or additions to measures?
- Which measures should be prioritized?

Resilience

Extreme Heat, Wildfire, and Flooding

Community Resilience Center

Programs: Identify community cooling centers throughout Bakersfield and develop a communication platform/protocol for informing residents and community-based organizations of extreme heat and air pollution hazards and where they can seek relief.

Comments or suggested revisions:

Doesn't this already exist?	It double check with my department to see if we offer this at any of our BAC centers	
		Contract out the work to CBOs with a focus on rural communities

Flooding Preparedness: Assist

homeowners and businesses to raise mechanical equipment, such as electrical and HVAC, in homes and buildings within the 100- and 500-year floodplains.

Comments or suggested revisions:

Is this really a function of city government?	With the labels I think repaired, is this still a major concern?	Education of population of special 100 year urban flooding zones
I think the percentage of a flood is a little high based on some recent research findings.		I would think this would get more incentive and many units would need to be replaced

Shifted Work Hours During Summer:

Encourage employers to shift working hours during the summer to avoid working outside during peak daily temperatures, typically 3 p.m. to 6 p.m.

Comments or suggested revisions:

I think most employers with employees working outside would be really in for this to consider.	I do know our employees start at an earlier time since they work outdoors	

Structural Hardening: Support structural hardening retrofits, such as roof and siding repairs/replacements, when existing buildings in the Moderate and High Fire Hazard Severity Zone are redeveloped.

Comments or suggested revisions:

Where is the High Fire Hazard Severity Zone in Bakersfield?	Extended to nonresidential	

Ground Rules for Activity

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- “Step back” to let others speak
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- Listen actively (seek to understand, keep an open mind)
- Help the facilitator to keep things on time

Next Steps

- **Public Draft of SOAR Bakersfield Available October 2025**
- **Questions or feedback on measures?** Email soar@bakersfieldcity.us
- **Scan the QR Code** to visit the project website for more information



Or type: qrco.de/soar-bakersfield



**Thank you for your
ongoing participation!**

City of Bakersfield Water Smart

Meters: The City of Bakersfield recently received grant funding to install 5,500 smart meters at residential units across its service area. While this funding supports a portion of the deployment, additional funding will be needed to complete full installation for all customers within the service area.

Comments or suggested revisions:

Considerations for Smart Meters
in older homes - there can be
lots of leaks in systems, and the
implementation of smart meters
has potential to result in higher
bills

Structural Hardening: Support structural hardening retrofits, such as roof and siding repairs/replacements, when existing buildings in the Moderate and High Fire Hazard Severity Zone are redeveloped.

Comments or suggested revisions:

objective standards
that include shade as
part of the structure

Shifted Work Hours During Summer:

Encourage employers to shift working hours during the summer to avoid working outside during peak daily temperatures, typically 3 p.m. to 6 p.m.

Comments or suggested revisions:

Recreation & Parks
currently has shift
available for employees
working outdoors.

Expand Education and Certification

Opportunities: Support increased access to and increased capacity of education and certification programs that provide opportunities in construction trades, and green energy and infrastructure occupations.

Comments or suggested revisions:

Health care career education is needed. The portion of population that is over 65 is projected to substantially increase.

Workforce is critical in underserved areas to allow residents to stay in Kern County



SOAR Bakersfield Draft Measures

SOAR Bakersfield will feature a range of measures designed to advance sustainability, strengthen resilience, and deliver meaningful benefits to the community. The table below highlights key draft measures that emerged through engagement with community members and align with existing plans and studies and reflect priority projects for the City of Bakersfield.

Your input is essential. Feedback from the community will help refine and prioritize these measures, and identify additional ideas that may be missing. This list is not complete, and additional measures will be identified as SOAR Bakersfield progresses. The full set of measures will be shared in the public draft of SOAR Bakersfield, expected to be available in October 2025. There will be additional opportunities for sharing input and feedback at that time.

These measures will be discussed at the upcoming meeting. Because our meeting time will be limited, we encourage you to review the list in advance. The discussion will focus on:

- How regional organizations can help implement these measures,
- Recommended revisions or additions, and
- Which measures should be prioritized.

In the table below, measures are organized by “Opportunity Area” (e.g., Renewable Energy, Land Use, Urban Greening), and grouped into broader “Categories” (e.g., Resilience, Energy, Solid Waste). Where applicable, the source plan or study from which a measure originated is also noted. The far right column of the table is where comments on the measure or suggested revisions can be written. Comments and revisions can be sent to: soar@bakersfieldcity.us, or provided during the discussion at the upcoming meeting. Feedback will be used to refine and expand the measures in SOAR Bakersfield.

SOAR Bakersfield Draft Measures

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
Resilience	Extreme Heat, Wildfire, and Flooding	Community Resilience Centers Program	Identify community cooling centers throughout Bakersfield and develop a communication platform/protocol for informing residents and community-based organizations of extreme heat and air pollution hazards and where they can seek relief.		
		Flooding Preparedness	Assist homeowners and businesses to raise mechanical equipment, such as electrical and HVAC, in homes and buildings within the 100- and 500-year floodplains.		
		Shifted Work Hours During Summer	Encourage employers to shift working hours during the summer to avoid working outside during peak daily temperatures, typically 3 p.m. to 6 p.m.		
		Structural Hardening	Support structural hardening retrofits, such as roof and siding repairs/replacements, when existing buildings in the Moderate and High Fire Hazard Severity Zone are redeveloped.		
Energy	Building Energy Efficiency	Continued Low-Income Energy Efficiency Program	Continue to offer no-cost energy audits and completion of limited weatherization and energy efficiency upgrades for low-income households in southeast Bakersfield.	Transformative Climate Communities Plan	

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
		Energy Efficiency Education and Assistance	Create a program to deliver information and technical assistance for accessing low-cost energy efficiency upgrades and available rebates, incentives, and grant programs.		
		Affordable Housing Energy Efficiency	Identify and assess priority affordable housing sites in Bakersfield for energy efficiency, electrification, and backup power generation measures.		
	Renewable Energy	Continue and Expand Solar Installations at Residences	Continue partnering with GRID Alternatives and Kern Community College District through the Transformative Climate Communities implementation program to provide low-income homeowners in southeast Bakersfield access to affordable solar energy. The program is currently active and will provide solar photovoltaic generating systems to households in southeast Bakersfield.	Transformative Climate Communities Plan	
		Battery Storage	Support the replacement of diesel- and natural gas-fueled backup generators with solar and battery storage.		
		Microgrids at Warehousing Facilities	Support new warehousing facilities to install solar-powered microgrids to reduce the use of diesel generators for backup/supplemental power sources.		
Transportation and Land Use		California Inland Port	In partnership with Kern COG and other local jurisdictions, identify locations for and	Kern COG - Kern Area Regional	

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
	Freight and Heavy-Duty Vehicles		support the development of an intermodal freight facility and increased rail freight capacity to shift freight from trucks to rail. The California Inland Port Project proposes a new intermodal rail spine that would connect the Central Valley to the Ports of Long Beach and Los Angeles, serving as a logistics center for interstate and international movement of goods.	Goods-Movement Operations	
		Autonomous Zero-Emission Vehicle (ZEV) Truck Systems	Support testing and development of an autonomous ZEV truck system that operates on designated roadways to deliver goods between facilities within Bakersfield and surrounding areas.	Kern COG - Kern Area Regional Goods-Movement Operations	
		Medium- and Heavy-Duty Electric Vehicle Infrastructure	Install medium- and heavy-duty (MD/HD) electric vehicle (EV) charging infrastructure following the guidance of Kern County Blueprint for MD/HD Infrastructure.	Kern COG - Kern County Blueprint for MD/HD Infrastructure	
	Alternative Fuels for Passenger Vehicles	EV Charging in Underserved Communities	Identify opportunities with developers on concurrent community revitalization efforts to include EV charger installations in public spaces and near multifamily housing developments.		
		EV Charging Incentives	Create an educational campaign to promote Valley Air District's Charge Up! Program and Clean Vehicle Fueling Infrastructure Program. The Charge Up! Program provides incentives for public	Kern COG - Kern Electric Vehicle Charging Station Blueprint	

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
			agencies, businesses, and multifamily residence property owners to install EV chargers. The Clean Vehicle Fueling Infrastructure Program provides incentives for clean vehicle fueling stations for heavy-duty vehicles.		
		EV Car Share Program	In partnership with community-based organizations, develop an EV car share program for areas of the city that are not well served by transit.	Kern COG - Kern Electric Vehicle Charging Station Blueprint	
	Land Use	Infill Development and Housing	Provide incentives and technical assistance for development of infill residential projects and redevelopment of commercial properties for residential uses.	Revised Draft 2023-2031 Housing Element	
		Accessory Dwelling Units	Promote the construction of accessory dwelling units and streamline the permitting process for project applications.	Revised Draft 2023-2031 Housing Element	
	Transportation Demand Management	Vanpools	In partnership with Kern COG, expand and promote the use of vanpools by supporting employers and community members in securing funding for and establishing vanpools for commuting to and from work.		
		Private Sector Shuttles and Commute Reduction	Partner with large employers (greater than 100 employees) in Bakersfield to enhance commute reduction efforts, building on Valley Air District's Rule 9410, which		

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
			requires employers to reduce single-occupancy vehicle trips.		
	Transit Improvements	Bus Rapid Transit on Key Corridors	In partnership with Golden Empire Transit (GET) and Kern COG, implement bus rapid transit (BRT) on key corridors, including Chester, California West, and California East. GET is currently planning for implementation of at least one BRT route, which will include the installation of 35 queue jump lanes, 150 bike parking and bike kiosks, and bus shelters across the BRT line.	Golden Empire Transit District Long-Range Transit Plan – 2025-2044	
		Bicycle Facilities at Downtown and Southwest Transit Centers	In partnership with GET, install secure bicycle storage at the Downtown and Southwest Transit Centers to improve multimodal connectivity with transit.	Golden Empire Transit District FY 25/26 - 29/30 Short-Range Transit Plan	
		Downtown Bakersfield Pedestrian Access to Transit Improvements	Implement specific recommendations for improving pedestrian infrastructure included in the Downtown Bakersfield Pedestrian Access to Transit Plan.	Downtown Bakersfield Pedestrian Access to Transit Plan	
	High-Speed Rail Station Connections	High-Speed Rail Station Area Plan "Green Loop"	In partnership with the California High-Speed Rail Authority, implement the three projects identified in the Downtown Bakersfield High-Speed Rail Station Area Plan that would create a green loop	Downtown Bakersfield High-Speed Rail Station Area Plan	

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
			forming a continuous active transportation network around downtown Bakersfield.		
		High-Speed Rail Circulator Shuttle	Consider a circulator shuttle service that provides bi-directional frequent, free, or low-cost connections between the High-Speed Rail station and downtown destinations as a supplement to regular GET and Kern Transit bus service.		
	Walkability and Bicycle Networks	Low Stress Bike Network Plan	In coordination with Kern COG and Kern County, implement the recommended bike network projects identified in the Bakersfield Low Stress Bike Network Plan.	Bakersfield Low Stress Bike Network Plan	
		Downtown Walkability Plan	Create a Walkability Plan and/or Pedestrian Design Guidelines for downtown and southeast Bakersfield that seeks to improve street lighting, safer crosswalks, ADA compliance, shading, urban greening, and signage, consistent with the Transformative Climate Communities Plan.	Transformative Climate Communities Plan	
		Wayfinding Program in Downtown and Southeast Bakersfield	Create a wayfinding program, consistent with the Transformative Climate Communities Plan, to guide people who walk and bike through safe and improved routes to major destinations in downtown and southeast Bakersfield.	Transformative Climate Communities Plan	
Water	Water Efficiency and Supply	Turf Replacement Program	The Turf Replacement Program involves redesigning select medians throughout Bakersfield. High-priority phases of the		

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
			program include landscaping and irrigation improvements on Old River Road, Buena Vista, S. Allen, Bernard, and Beale, totaling 23 medians where improvements would be made.		
		City of Bakersfield Water Smart Meters	The City of Bakersfield recently received grant funding to install 5,500 smart meters at residential units across its service area. While this funding supports a portion of the deployment, additional funding will be needed to complete full installation for all customers within the service area.		
Solid Waste	Organic Waste Diversion	Waste Reduction Education	Develop waste reduction and diversion behavior campaigns in partnership with local organizations for residential, multifamily property managers, and commercial uses. This campaign will aim to increase participation in curbside and drop-off diversion programs, while simultaneously reducing contamination of recoverable waste.		
		Food Redistribution	In partnership with Kern County Public Health's Waste Hunger, Not Food program, redistribute surplus edible food to community members in need.		
Nature-Based Solutions	Kern River	Kern River Parkway Plan Priority Projects	The Kern River Parkway Plan proposes eight projects to improve the Kern River Parkway over the next ten years, while	Kern River Parkway Plan	

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
			generating excitement for future projects along the parkway. Projects reflect a balance of recreational improvements and natural resource protection.		
		Kern River Parkway Tree Canopy and Vegetation Restoration	Plant vegetation to restore tree canopy, vegetative cover, and diversity of plant species in the parks or along the parkway to improve green infrastructure, wildlife habitat, parkway aesthetics, shade, climate resiliency, and the recreational experience.	Kern River Parkway Plan	
	Urban Greening	Tree Maintenance Public Education	Develop information and materials to support public awareness and understanding of tree requirements and needs.	Central City and Citywide Tree Plan	
		Residential Tree Planting	Establish a citywide 'Free Tree Program' that provides residents with free trees to plant on their properties and support the program with ongoing care instruction workshops. Tree species should be selected from the approved tree palette.	Central City and Citywide Tree Plan	
		Vegetative Barrier Expansion	Install vegetative barriers and plant drought-tolerant vegetative barriers. Conduct a study to determine priority pollution-burdened areas of Bakersfield that may benefit most from vegetative barriers and plant drought-tolerant vegetative barriers.		

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
Workforce and Economy	Workforce Development	Expand Education and Certification Opportunities	Support increased access to and increased capacity of education and certification programs that provide opportunities in construction trades, and green energy and infrastructure occupations.		
		Community-Based Organization Partnerships	Establish partnerships with CBOs to increase access to workforce training programs for underserved groups.		

Attachment J

Community Based Organization Focus
Group Meeting #1



Sustainable Opportunities
Advancing Resilience

AGENDA

SOAR Bakersfield | Focus Group Meeting Kickoff

June 18, 2025 | 11:30 a.m. – 1:00 p.m.

1715 Chester Ave (3rd Floor), Bakersfield CA

Lunch will be provided

Discussion Items	Time
1. Welcome and Introductions	11:30 a.m.
2. SOAR Bakersfield Overview and Community Resilience Presentation	11:40 a.m.
3. Q&A	11:55 p.m.
4. Group Activity	12:10 p.m.
5. Wrap Up and Next Steps	12:55 p.m.

DISCUSSION QUESTIONS AND MEETING TOPICS:

- Let's discuss Bakersfield's ability to adapt to:
 - Extreme Heat
 - Drought & Water Supply
 - Wildfire Smoke & Air Pollution
 - Extreme Precipitation & Flooding
- Consider the following questions:
 - What resources support improved resilience?
 - Are the communities you serve prepared for this hazard at an individual or household level?
 - What makes a community more—or less—prepared?

PARKING INFORMATION:

- Free 2-hour parking is available at the parking garage located at 1600 18th Street, on the corner of 18th and Eye Street.
- Additional free 2-hour off-street parking can also be found in the surrounding area.

OTHER HELPFUL INFORMATION:

- **Project Website:** <https://ascent.mysocialpinpoint.com/soar-bakersfield>
- Upcoming Workshops:
 - **June 17th In-Person Workshop:** https://SOAR_Bakersfield_Workshop.eventbrite.com
 - **June 24th Virtual Workshop:**
<https://us06web.zoom.us/join/73SGzUKyRvGlqe5uZu6kpw#/registration>



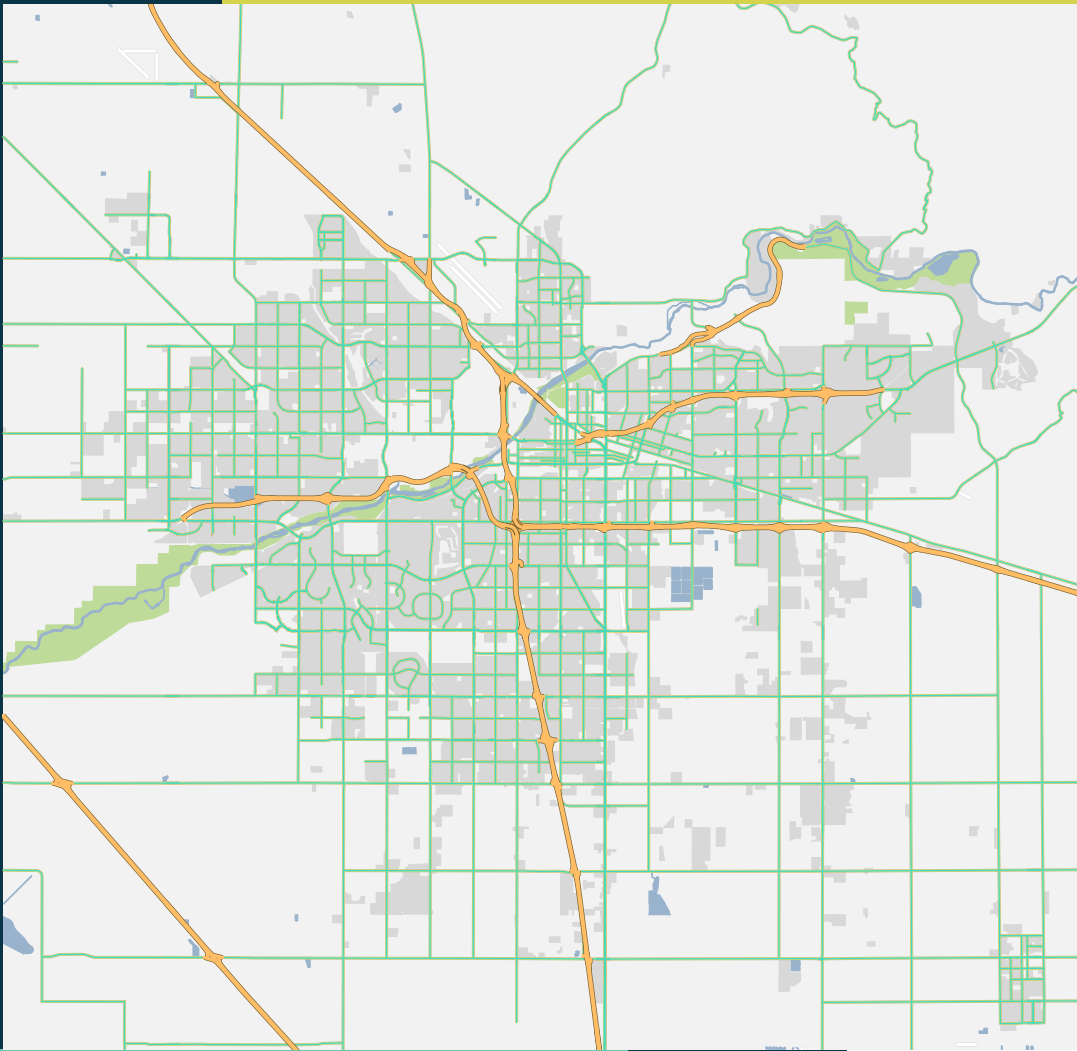
Sustainable Opportunities
Advancing Resilience

SOAR

(Sustainable Opportunities
Advancing Resilience)

Bakersfield

Focus Group Kickoff Meeting
June 18, 2025



Agenda

- Introductions
- SOAR Bakersfield Overview
- Q&A
- Open House and Stations
- Next Steps



Introductions

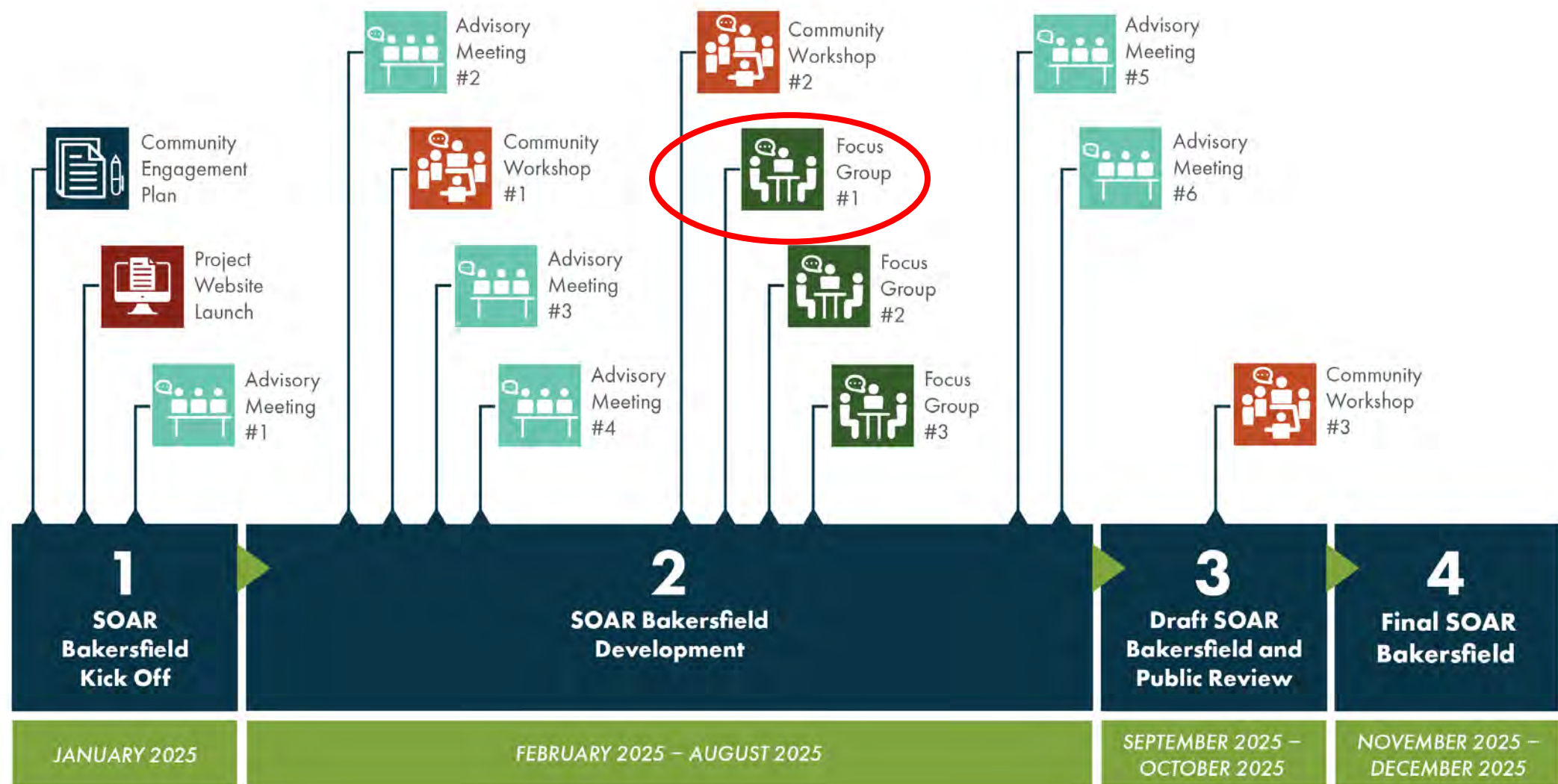
- **Please share:**
 - Your name
 - Organization/affiliation

Focus Group Overview



- Comprised of local leaders and organizations
- Meets three times during the project
- Fosters collaboration and shared learning
- Helps shape SOAR Bakersfield by:
 - Aligning strategies with local priorities
 - Bringing real-life experience into planning
 - Sharing updates and opportunities across communities

Project Schedule



Focus Group Meeting Schedule

Dates and Topics

June 18, 2025 @ 11:30 am

- In-Person Meeting 1: Introduction / Adaptation / Community Resilience

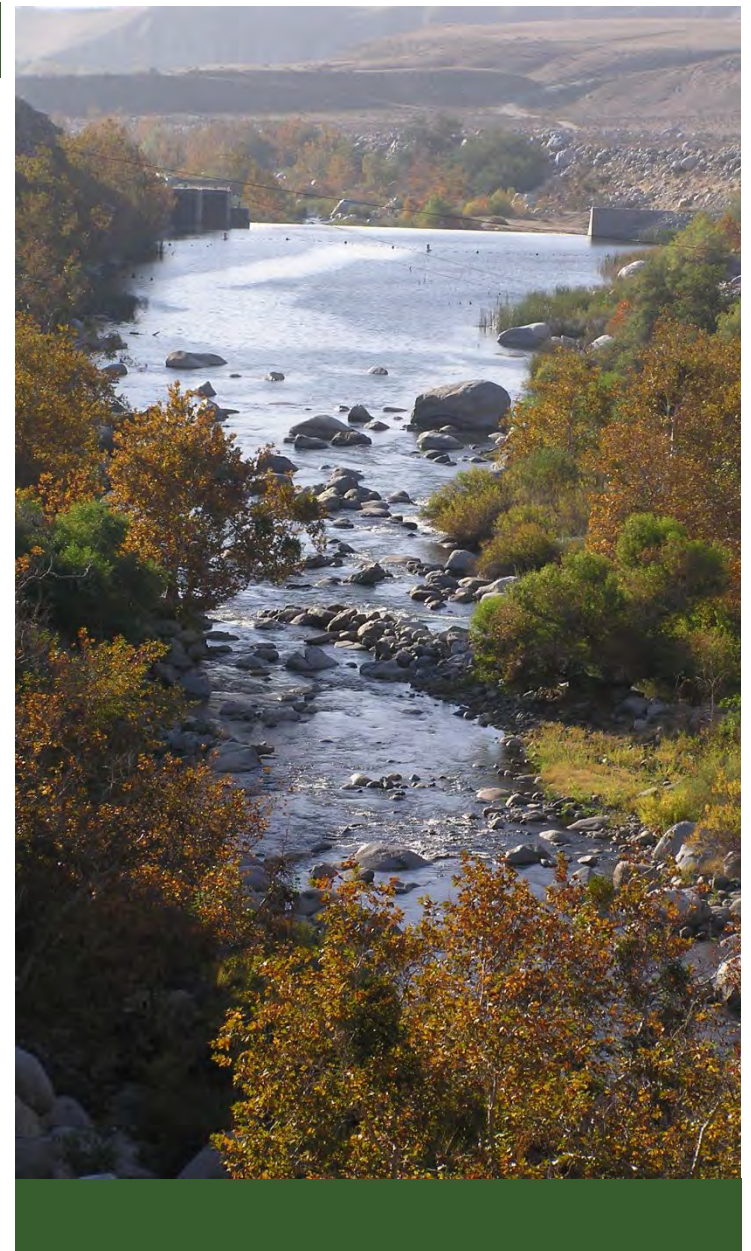
July 23, 2025 @ 12:00 pm

- Virtual Meeting 2: Workforce Development

August 19, 2025 @ 12:00 pm

- Virtual Meeting 3: Priority Actions and Implementation

Sustainable Opportunities Advancing Resilience Bakersfield



What is SOAR Bakersfield?

- A **roadmap** intended to reduce climate pollution
- Funded by the EPA's **Climate Pollution Reduction Grant (CPRG)** program
- Identifies actions to **support** economic growth and cost savings
- **Prioritizes** local needs and **opportunities** unique to Bakersfield
- Connects existing and developing **local initiatives**
- Integrates **community priorities** and **expert input**
- Engages all populations, **especially underserved areas**
- Ensures **equitable benefits** throughout planning and implementation



Sustainable

Meeting today's community needs while ensuring resources and opportunities remain available for future generations.



Sustainable (Opportunities)

- Identify local job opportunities in evolving energy sectors
- Provide more reliable services through modernized infrastructure
- Reduce health issues with improved air quality
- Lower household energy bills through strengthened local energy systems
- Make neighborhoods cooler and more comfortable with more trees
- Improve access to affordable, healthy food options
- Develop career pathways and skills training programs

Opportunities

Creating pathways for economic growth and community benefits that improve quality of life for all Bakersfield residents.



(Economic and Community) Opportunities

- Support local businesses and create jobs across both traditional and emerging sectors
- Boost agricultural employment and stabilize local food production
- Improve community connections through better mobility and transportation options
- Expand access to essential neighborhood services
- Uplift community voices in every step of the city planning process
- Forge partnerships that build on community strengths and shared resources
- Direct investments toward historically underserved neighborhoods

Advancing Resilience

Preparing our community to thrive through future challenges while safeguarding residents, businesses, and infrastructure today.



Definitions

- **Resilience:** A community's capacity to withstand, recover from, and thrive through hazards while preserving its core services and functions.
- **Adaptation:** Actions taken to adjust systems and behaviors to better handle current and future hazards while maintaining essential functions.
- **Climate Hazard:** A potentially damaging weather or climate-related event that can impact community health, safety, infrastructure, and economic stability.

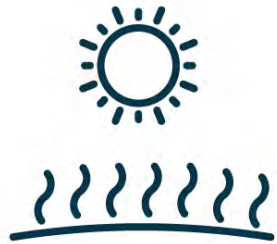


Source: Kern County Fire Department

Advancing Resilience

- Strengthen emergency response and preparedness
- Offer accessible cooling centers during extreme heat events
- Build local capacity to support communities in times of crisis
- Support rapid recovery for businesses and households affected by climate disruptions
- Ensure emergency information is accessible to those facing language or technology barriers
- Keep transportation routes open and functional during emergencies
- Focus investments in areas most vulnerable to environmental risks

Climate Hazards...



EXTREME
HEAT



EXTREME
PRECIPITATION
& FLOODING



WILDFIRE



DROUGHT



POOR AIR
QUALITY

...can result in negative impacts to:

- Public Health and Safety
- Vulnerable Populations
- Energy Demand and Reliability
- Emergency Response
- Local Economy
- Infrastructure
- Agriculture
- Essential Services
- Biodiversity
- Natural Resources
- Recreation
- Transportation

HISTORICAL (1961-1990)

LONG-TERM (2070-2099)

TEMPERATURE



Annual average maximum temperature

78.4°F → 83.2 TO 86.2°F

Annual average number of extreme heat days

4.2 → 25.4 TO 46.8

PRECIPITATION



Annual average precipitation won't shift much...

6.9" → 6.7" TO 7.2"

...but year-to-year variability will, with wet years becoming wetter, and dry years becoming drier.



Adaptive Capacity

- **Adaptive Capacity**

- Bakersfield's ability to prepare for and adjust to challenges while maintaining essential functions.

- **Potential Impact**

- The possible effects on people, infrastructure, and natural systems before considering existing adaptive measures.

- **Vulnerability**

- The extent to which Bakersfield could be harmed by hazards based on its exposure to risks and ability to handle them.

Climate Hazard	Vulnerability		
	Adaptive Capacity	Potential Impact	Vulnerability Score
Increased Temperatures and Extreme Heat	Low	High	5
Wildfire and Smoke Risk	Low/Medium	Medium	3-4
Drought and Water Supply	Medium	High	4
Extreme Precipitation and Flooding	Medium	Low/Medium	2-3

Questions?



Adaptive Capacity Discussion





At each station, discuss

- Bakersfield's ability to adapt to:
 - Extreme Heat
 - Drought & Water Supply
 - Wildfire Smoke & Air Pollution
 - Extreme Precipitation & Flooding
- Consider the following questions:
 - What resources support improved resilience?
 - Are the communities you serve prepared for this hazard at an individual or household level?
 - What makes a community more—or less—prepared?



INCREASED TEMPERATURE AND EXTREME HEAT

Bakersfield is expected to face dramatically more extreme heat days and longer, more frequent heat wave events. Recent records are already showing the trend: 20 days over 100°F in July 2024.

Vulnerability		
Adaptive Capacity	Potential Impact	Vulnerability Score
Bakersfield's ability to prepare for and withstand climate hazards.	Likelihood of Bakersfield being affected by climate hazards.	Bakersfield's susceptibility to harm (1 = least vulnerable, 5 = most vulnerable)
LOW	HIGH	5



What resources could support resilience/adaptation?

Consider plans, programs, organizations, and policies



Are the communities you serve prepared for this hazard at an individual or household level?

What make a community more—or less—prepared?



DROUGHT AND WATER SUPPLY

Rising temperatures and drier conditions are straining regional water supplies, with droughts nearly certain to occur again. Bakersfield's reliance on groundwater and shrinking mountain snowpack also increases the risk of water shortages, especially during drought periods.

Vulnerability		
Adaptive Capacity	Potential Impact	Vulnerability Score
Bakersfield's ability to prepare for and withstand climate hazards.	Likelihood of Bakersfield being affected by climate hazards.	Bakersfield's susceptibility to harm (1 = least vulnerable, 5 = most vulnerable)
MEDIUM	HIGH	4



What resources could support resilience/adaptation?

Consider plans, programs, organizations, and policies



Are the communities you serve prepared for this hazard at an individual or household level?

What make a community more—or less—prepared?



WILDFIRE SMOKE AND AIR POLLUTION

Around 20% of Bakersfield residents live within areas that have moderate to high fire risks. Bakersfield faces ongoing wildfire threats from fires within city limits and surrounding areas, including smoke and air quality impacts, as seen during the record-setting 2024 Borel Fire.

Vulnerability		
Adaptive Capacity	Potential Impact	Vulnerability Score
Bakersfield's ability to prepare for and withstand climate hazards.	Likelihood of Bakersfield being affected by climate hazards.	Bakersfield's susceptibility to harm (1 = least vulnerable, 5 = most vulnerable)
MEDIUM	HIGH	3–4



What resources could support resilience/adaptation?

Consider plans, programs, organizations, and policies



Are the communities you serve prepared for this hazard at an individual or household level?

What make a community more—or less—prepared?



EXTREME PRECIPITATION AND FLOODING

Wet years will become wetter, with more intense storms concentrated in a shorter wet season. Flooding risk will increase, especially in the San Joaquin Valley, which faces some of the highest flood risk in the U.S., threatening people, infrastructure, and community functions.

Vulnerability		
Adaptive Capacity	Potential Impact	Vulnerability Score
Bakersfield's ability to prepare for and withstand climate hazards.	Likelihood of Bakersfield being affected by climate hazards.	Bakersfield's susceptibility to harm (1 = least vulnerable, 5 = most vulnerable)
MEDIUM	LOW/MEDIUM	2–3



What resources could support resilience/adaptation?

Consider plans, programs, organizations, and policies

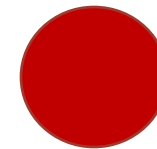


Are the communities you serve prepared for this hazard at an individual or household level?

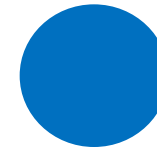
What make a community more—or less—prepared?



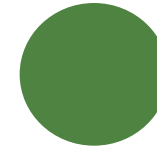
Where to Start



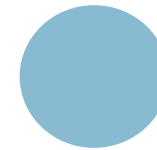
Extreme Heat



Drought & Water Supply



Wildfire Smoke & Air Pollution



Extreme Precipitation & Flooding

Stay Engaged

- **Next Focus Group Meeting** on July 23rd from 12:00pm-1:00pm on Zoom on Workforce Development
- **Virtual Community Workshop** on June 24th at 6:00pm
- **Digital Engagement Hub** on project website
 - Survey
 - Map Activity
 - Social Media Toolkit
- **Questions?** Email soar@bakersfieldcity.us
- **Scan the QR Code** to visit the project website for more information and to take the survey



Or type: qrco.de/soar-bakersfield

Thank You





INCREASED TEMPERATURE AND EXTREME HEAT

Bakersfield is expected to face dramatically more extreme heat days and longer, more frequent heat wave events. Recent records are already showing the trend: 20 days over 100°F in July 2024.

Vulnerability

Adaptive Capacity

Bakersfield's ability to prepare for and withstand climate hazards.

Potential Impact

Likelihood of Bakersfield being affected by climate hazards.

Vulnerability Score

Bakersfield's susceptibility to harm
(1 = least vulnerable, 5 = most vulnerable)

LOW

HIGH

5

What resources could support resilience/adaptation?

Consider plans, programs, organizations, and policies

Are the communities you serve prepared for this hazard at an individual or household level?

What make a community more—or less—prepared?

Public Transportation stops to underserved communities

Emergency response centers (during crisis coordination, transportation)

Attending community meetings

Having hot lines available for people who need help

Trained messengers

Firefighter Education Programs (new to handle the heat in the field)

Utilities relief

More trees in South East/ East Bakersfield

greatest risk is driven by zip codes

Vulnerable populations (aging population, households with chronic conditions, disabilities, etc.)

At Risk groups / vulnerable populations

Training about how to support vulnerable communities of Bakersfield during high heat events

Public safety initiatives during high heat events (e.g. hot lines, etc.)

Public transit stops with shade / trees / fans / misters

Education + community prep for emergency shut offs

Energy Audits are great but can they afford it?

Community Spaces w/ more trees/shading

Either have a hot line or a community space with fans/shading

More cooling centers (transportation to centers)

Public safety initiatives (e.g. hot lines, etc.)

Summer is hot with high air pollution. Kids are more at risk. Can we close schools to cool them?

Use of Building materials that are insulated & cool

Transportation to cooling centers (e.g. bus, etc.)

No senior center will be a cooling center this summer

Safe parking near transit stops

PSPS Shut-off need more notice

Churches as cooling centers

Outdoor cooling (more fans, drinking fountains, etc.)

Public safety initiatives (e.g. hot lines, etc.)

Senior Outreach Programs / home visits

Not enough money or resources to open cooling centers

Prepare for heat in winter as well as summer

Better coordination between PG&E and the community

Public safety initiatives (e.g. hot lines, etc.)

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Public safety initiatives (e.g. hot lines, etc.)

BAKERSFIELD

Close
Transportation
stops
to underserved
communities

LOW

HIGH

What resources could support resilience/adaptation?

Consider plans, programs, organizations, and policies

Affordable
Renewable
Energy
infrastructure

Emergency
resilience
centers
(including CBO
coordination,
transportation)

Trusted
Messengers

1 Firefighter
Education
Programs
- How to handle
the heat
- Wildfire/brush
Fire

Utilities
relief

More
trees in
South East/
East
Buttersfield

greatest
factor
driven
zip code

Training CBOs &
PD to support
vulnerable
communities
or businesses
during major
heat events

Reduce outdoor
recreation during
heat waves
- for all not
just low income
- increase indoor activities

public
transit
stops with
shade / trees /
fans /
mistlers

Education &
community prep
for emergency
shut offs

Energy
Audit
great
can't afford

More cooling
centers/
transportation
to centers

Promote &
establish
Tree planting
initiatives
- urban parks
- need shade
- building

Summer is
hot with high
air pollution.
Kids are home,
can we give
access to cool
space?

Use of
Building
materials that
are insulated &
cooler

transport
to cool
Pre-PD
alone

PSPS
Shut-off
need more
notice

Churches
as cooling
centers

outdoor
cooling
(more parks
drinking
fountains, trees)

Decrease water
usage &
capture more
from rainfall
- increase permeability

Solar
Proper
Business

Better
coordination
between PG&E
and the community

establish more
cooling centers

Reduce the
Amount of pollution
traveling to do the
valley from other
cities/countries

Promote / Improve
Roofing materials
that reduce
temperature

What make a community more—or less—prepared?

greatest factor is driven by zip code

vulnerable populations
(aging population, households with economic challenges, communities of color)

Energy Audits are great but can they afford it

Community Spaces w/ more trees/shading

No
Rising Energy & water costs
Disenfranchisement

Replace household water heaters with AC - At no additional cost - but they need to be replaced

Transportation to cooling ~~center~~ centers
Pre-80 @ Risk alone Residents

No senior center will be a cooling center this summer

Safe parking near transit stops

Solar Incentive Programs to Business/home owners

Not enough money or resources to open cooling centers

Prepare for heat in winter, we know its coming

Off Season prep + education for Summer + @ At Risk

KENSFIELD



DROUGHT AND WATER SUPPLY

Rising temperatures and drier conditions are straining regional water supplies, with droughts nearly certain to occur again. Bakersfield's reliance on groundwater and shrinking mountain snowpack also increases the risk of water shortages, especially during drought periods.

Vulnerability		
Adaptive Capacity	Potential Impact	Vulnerability Score
Bakersfield's ability to prepare for and withstand climate hazards.	Likelihood of Bakersfield being affected by climate hazards.	Bakersfield's susceptibility to harm (1 = least vulnerable, 5 = most vulnerable)
MEDIUM	HIGH	4

More trees in existing neighborhoods
Don't put solar in places in neighborhoods that don't need it

You can tell the difference between a house that's been there for 100 years and a house that's been there for 10 years

Risk of a drought in California

Provide daily access to info about landscaping options (e.g. backyard)

Drought tolerant plants in landscape

Growing city is concerned about how many water users

Steel mill is high water user

Very little water is being used

Water conservation is being encouraged

Monetary incentives for drought tolerant landscaping

Don't plant a tree in a place where it won't survive

Don't plant a tree in a place where it won't survive

Don't plant a tree in a place where it won't survive

Is much a bad idea? Five inch trees are for trees

Unirrigated landscaping services about \$1000

Higher water rates will impact rural + make effective pricing harder to find

More effective irrigation

Drought tolerant landscaping in community landscape

Landscaping - it should not be too expensive

Rising water costs

Changing based on amount of water used

Watering of construction sites

Roads don't pay for water → do they have that water? Exemption in the State Water Project

Water savings attachments have been used for showers but not sinks

Protection of young water

High number of car washes → high use

Are car washes restricted during City mandated events?

New car washes continue to be built

Need to reduce water system + purchasing water

Fastest flowing river - Kern River - can't be used for irrigation

Landscaping incentives for homeowners

Wasteful use of water in washing cars, watering lawns

Conservation culture not based on conservation OR drought + price

Low income households can't buy better water if the rain supply runs low

City and county do well using reclaimed water (parts of city only)

Too much water for food yards that use water

Increase green water options + buy + homes to allow more green

Can Bakersfield do more to store water?

Incentives to water to prevent drought related landscape

Water water sprinklers reduce wasteful use

Continue to support local water conservation efforts

Water conservation efforts



More trees
in existing
neighborhoods
↓
don't just rely
on people in
neighborhoods that
can't afford it

You can tell
the difference
b/w new
areas &
older
neighborhoods

Reduce
environmental
temperatures
- Trees

Provide easily
accessible info
about
landscaping
options
(e.g. brochures)

stop pouring
water
capture more water

Entire/Degraded
water supply
in landscape

Monetary
incentives
drought
tolerant
landscaping

Resident/Community
Education on proper
water usage

Water conservation
landscaping

Unirrigated
landscapes
↓
worries about
wildfire

higher water rates
will impact rent
+ make Affordable
housing harder to
finance

More effective
irrigation

Drought
tolerant
landscaping in
community
areas/space

Watering of
construction
sites

Renters don't pay
for water →
do they think
about water
conservation in the
same way as Homeowners?

Water savings
attachments
↳ were used
for showers
but not sinks

Purification of
grey water
Building of water
Aquifers

Need to enhance
water system &
purification of water

Fastest flowing
river - Kern
dry
cannot be
used for
recreation

landscaping
incentives
for homeowners

Wasteful use
of water
↳ washing cars
watering
lawns

too much grass
for front yards
that use water

Increase grey
water options &
bus & homes to
allow more options

Can Bakersfield
do more
to store
water?

~~How~~
Incentives to
Habitats to promote
& accept
drought-tolerant
landscapes

Drought tolerance
policy on
land develop^{mt}

Growing city
↓
concerns about
new casino
+ water use

Steel mill
↳ high water
use
↓
Mopac
East ferr
casino

Increased
water costs

No - at neither level
is a long-term solution
To be prepared all
communities must be
served equitably

Is mulch a
bad idea?
Fire risk
+
better we for
trees

Xeriscaping
↓
lawns should
not be the
standard

Rising water
costs

Charging
based on
amount of
water used

High number
of car washes
+ high use

Are car
washes
restricted
during City
mandated
events?

New car
washes continue
to be built

Communities
Culture are
not focused
on conservation
OR drought prep

Low income households
cannot buy bottled
water if the water
supply runs low

City and county
do well
using
reclaimed
water
(parts of city
only)

Meter water
sprinklers
↓
reduce wasteful
use

Continue to
support food
growth
↳ water not
always channeled
h-2-o



KERSFIELD



WILDFIRE SMOKE AND AIR POLLUTION

Around 20% of Bakersfield residents live within areas that have moderate to high fire risks. Bakersfield faces ongoing wildfire threats from fires within city limits and surrounding areas, including smoke and air quality impacts, as seen during the record-setting 2024 Borel Fire.

Vulnerability

Adaptive Capacity

Bakersfield's ability to stand

Strategic planning
to address this
perpetual

Strategic planning
to address this
perpetual

Trees that
are lower
density

Provide low income
households for
cultural and
low filtration

Valley Air
Initiative for
infrastructure
and equipment

Programs to
assist people to
proceed clean
funds? Address fire
risks

Education on
how to improve
air quality in home
when people live

Legislation to
support reduced AQ
However, state laws
are challenging

AQS evaluation
system
to build system
for early contact
- taking action
when appropriate

Air quality
during fire
- monitoring
equipment

Consider plans, programs,
support for using
equipment who appropriate
Education / training
works

CA state
firefighting play
(can't do without
bureaucracy of Texas)

AQI
Education +
Response for
community to
prepare for
fire risk

Education on
preparation for
high AQI days
instead of when to
evacuate

Wildfire
Clear that they are
concerned about
wildfire
- evacuation from
San Diego County
wildfires

When water
is not
available
- fire fighting
equipment

Cooling centers
(churches)

Geographic
location of city
(surrounded by
mountains)

Response teams
from TX fire
(understaffed)

Poor communication
from TX fire/
JICA to local
communities of
color (and poor
schools)

Being vulnerable
communities
- underprepared

Community
Emergency needs to
be aware of
protecting their
homes/property/
family

More support for
low income

Historical racism
of TX fire (and
we're still seeing
many barriers not
for minority groups)

Community
Education in
Western Park
to make
Bakersfield

STAR outside city
area for the Western
Community

TX fire
displacement
plan

TX fire
displacement
plan

During fire, we
decide how much
we can afford to
lose and prepare
insurance accordingly

PEP
- fire response
equipment
- fire fighting
equipment

How can the
community get
involved?
- fire fighting

How do we
address the
equity for
all?

Education to city
Residents in
Western Park
- equity
- fire fighting
- fire fighting

Open training
Centers for at
risk population

Open training
Centers for at
risk population

Do we have resources
to respond to
fire? - fire fighting
- fire fighting
- fire fighting
- fire fighting

Using local
and people living
in community
to share information
about resources
and needs

Community/Policy
Education on
fire fighting
- fire fighting
- fire fighting
- fire fighting

Plans to launch
W) National cases
So they can get
ready for meeting
cases

What are standard
responsibilities during
wild fire smoke?
- response for fire
- fire fighting

Not prepared
- fire fighting
- fire fighting
- fire fighting
- fire fighting

Strategic planning
because it is
perpetual

Schools in some
areas are surrounded
by coalfields?
petroleum are a
hazard
Del Oro is an
example

hstand
ls.

affected by climate

More centers
with appropriate
air filters
(like cooking)

HIGH

Trees that
are lower
allergen

Assist low-income
households to
weatherize and
have filtration

Valley Air
incentives for
replacement of
gas equipment

Programs to
assist people to
proactively clean
fuels? reduce fire
risks

Education on
how to improve
air quality
when nearby

Air blowers
causing dust
- through policy
interventions

Policy for leaf
blowing - continuously
blowing around the
dust

support for cooling
centers with appropriate
filtration & providing
masks

CA state
firefighting policy
(can't do strategic
burning of trees)

AQI
Education
Responses
mechanism to
extreme
@list

Reduce water
usage
- promote
community gardens
fire photos

Cooling centers
(churches)

Geographic
location of city
(surrounded by
mountains)

Response levels
from BK Fire
(understaffed)

Poor co
from BK
ICCs
communi
color

more support for
the people.

Historical racism
w/ BK Fire (loss)
(we're still recovering)
many barriers exist
for minority groups)

Community
Education on
wildfire risk
to metro
Bakersfield

more outside cooling
areas for the homeless
communities

All F
replace
po

HEPA Air Filters
- can reduce indoor
Air pollution
- promote/replace
- make affordable

How can the
community be
informed?
Hester

How do existing
initiatives get
money for
solutions?

Education to city
Residents on
wildfire risk
- Campy
- report plan in
the field

Open
Center
Risk

Using CBOs
and people living
in communities
to share information
about resources
! access

Community/Bike
Education or
Incentive programs
Bike Bus, Repair
services, shared
bikes

Alerts
w/ me
So that
ready f
issues

likelihood of Bakersfield being affected by climate

More centers with appropriate air filters (like cooking centers)

Emerging preparedness education programs for households/family students

Explore fuel management to reduce fire risk

HIGH

Programs to assist people to proactively clean fuels? reduce fire risks

Education on how to improve air quality in home when nearby fire.

Vegetation to support reduced AQ. However water costs are a challenge

AQI notification system
↳ tiered systems for cooking centers
- cooking centers to have appropriate filtration

CA state firefighting policy (can't do strategic burning of trees)

AQI
Education + Responses for moderate to extreme levels for @ risk pop

Education on preparation for high AQI days instead of when its happening

Wildfire ①
Cities think they are immune from Wildfire -
Enter storms, from far away fires, wind driven

Response levels from BK Fire (understaffed)

Poor communication from BK Fire/ ICCs to local communities of color (could use CBOS)

Being homeless can make them less prepared

Campfires ②
Everyone needs to be aware of protecting their homes/property/family

More outside cooling areas for the homeless community

Air Filter Replacement Program

No High end roofs

Living in an decades long under-served area - we are not prepared individually or as a household

Education to city Residents on wildfire risk
- Camping
- Food prep in the forest

Open cooling centers for at risk populations

Low pollution

Do homes/business have A/C or
Swiss coolers to need a ~~refrigerator~~ to bring into a safe place during air pollution

Alerts to families w/ medical issues so they can get ready for breathing issues

What are landlord responsibility during wild fire smoke?
ie replace air filter have AC serviced

Not prepared -
- need an purifier for household/business
- need system to get outside air (and pick up relevant) (get outside)



EXTREME PRECIPITATION AND FLOODING

Wet years will become wetter, with more intense storms concentrated in a shorter wet season. Flooding risk will increase, especially in the San Joaquin Valley, which faces some of the highest flood risk in the U.S., threatening people, infrastructure, and community functions.

Vulnerability		
Adaptive Capacity	Potential Impact	Vulnerability Score
Bakersfield's ability to prepare for and withstand climate hazards.	Likelihood of Bakersfield being affected by climate hazards.	Bakersfield's susceptibility to harm (1 = least vulnerable, 5 = most vulnerable)
MEDIUM	LOW/MEDIUM	2-3

?

What resources could support resilience/adaptation?

Consider plans, programs, organizations, and policies

?

Are the communities you serve prepared for this hazard at an individual or household level?

What make a community more—or less—prepared?

Improve water storage capacity

Improve drainage systems in the city

Education better findings

Dam Levees
+ Kern River
fill up

They → improve storm water infrastructure
older areas might be harder

Drainage / water system improvements
in the city

Improve water storage capacity

Memorial Hospital
Zone X evacuation

Emergency
Evacuation Plan
needed

More people, if possible, move to the city
to avoid the risk of flooding

Is there a warning system that gives those who are in the area to evacuate?

Evacuation
Education to residents / community
warning system
to plan in place for flooding

Improve water storage capacity

Improve
Evacuation
Plan
for emergency planning

Assess if
evacuation
plans are
working

Infrastructure
Center room
- during during
East Coast
North West

Evacuation
Route
Signage

Stage
different colors

Insurance
if
state
body

adaptation.

Consider plans, programs,
organizations, and policies

Increase Urban
Storage & capturing
Infrastructure

Update drainage
systems in
the city.

Education ~~Builds~~
Sandbags

Increase Dam
Stability & capacity

Memorial
Hospital
Zone X
Foundation

Evacuation
Emergency
Operations Plan
needed

Increase Flood
Response capacity

Ingress
Egress
issue
strategic
planning

Assess of
Ingress +
egress relative
to flooding

Storage
different colors

Insurance
↓
State
Lobby

hazard at an individual or household level?

What make a community more—or less—prepared?

Down Isabella
↓ Kern River
Fill up

City => improve
storm water
infrastructure
older areas
neighborhoods

Drainage / sewer
system improvement
maintenance
in DACs

How flooding is
mitigated? capacity
of the community is
dependent on
how to respond
and what resources
are available

Is there a
Warning System
that gives those
with transportation
time to evacuate?

Evacuation
Education to
Residents / Community
standby supply
+ plan in place
for flooding

Infrastructure
Lower income
- driving during
East Coast
Middle
West

Evacuation
Route
Signage



Focus Group 6-18 Board Input

Increased Temperature and Extreme Heat

1. What resources could support resilience/adaptation?
 - a. Closer transportation stops to underserved communities
 - b. Emergency resilience centers (including CBO coordination, transportation)
 - c. Affordable renewable energy infrastructure
 - d. Trusted messengers
 - e. Firefighter education programs; how to handle the heat; wildfire/brushfire
 - f. More trees in southeast Bakersfield
 - g. Training CBO's and PD to support vulnerable communities or businesses during high heat events
 - h. Reduce and or incentivize energy star complainant HVAC units for all not just for low income, increase in home insulation
 - i. Public transit stops with shade/trees/fans/misters
 - j. Education and community prep for emergency shut offs
 - k. More cooling centers/transportation centers
 - l. Promote and establish tree planting incentives, reduce water costs
 - m. Summer is hot with high air pollution, kids are home, can we give access to cool spaces?
 - n. Use of building materials that are insulated and cooler
 - o. PSPS shut off need more notice
 - p. Churches as cooling centers
 - q. Outdoor cooling (more parks, drinking fountains, and trees)
 - r. Decrease water costs and capture more rainfall- increase reservoirs
 - s. Better coordination with PG+E and the community
 - t. Establish more cooling centers
 - u. Reduce the amount of pollution traveling into the community from other cities and counties
 - v. Promote/require retrofit materials that reduce temperature
2. Are the communities you serve prepared for this hazard at an individual or household level?
 - a. Greatest factor is driven by zip code
 - b. Vulnerable populations (aging population, households with economic challenges, and communities of color
 - c. Rising energy and water costs, decrease both
 - d. Energy audits are great but can they afford it

- e. Community spaces with more trees/shading
- f. Replace household water coolers with AC at no or reduced costs – coolers may need repairs
- g. Transportation to cooling centers – pre-ID at risk alone residents
- h. No senior center will be a cooling center this summer
- i. Safe parking near transit stops
- j. Solar incentive programs to businesses and home owners
- k. Not enough money or resources to open cooling centers
- l. Prepare for heat in the winter, we know its coming
- m. Off season prep and education for summer and at risk
- n. Increase heat illness awareness; prevention methodologies such as covering hydration

Drought and Water Supply

3. What resources could support resilience/adaptation?
 - a. More trees in existing neighborhoods – don't just rely on people in neighborhoods that can't afford it
 - b. You can tell the difference between new and older neighborhoods
 - c. Reduce environmental temperatures – trees
 - d. Provide easily accessible info about landscaping options (e.g. brochures)
 - e. Stop diverting water, capture more of it
 - f. Enhance/develop water supply infrastructure
 - g. Monetary incentives drought tolerant landscapes
 - h. Resident county election on proper water use, water conservation landscaping
 - i. Unirrigated landscapes, worries about wildfire
 - j. Higher water rates will impact rent + make affordable housing harder to finance
 - k. More effective irrigation
 - l. Drought tolerable landscaping in community areas and spaces
 - m. Watering of construction sites
 - n. Renters don't pay for water – do they think about water conservation in the same way as homeowners
 - o. Water savings attachments – were used for showers but not sinks
 - p. Purification of grey water, building of water aquifers
 - q. Need to overhaul water system and purifying water
 - r. Fastest flowing river- Kern is dry and cannot be used for recreation
 - s. Landscaping incentives for homeowners

- t. Wasteful use of water – washing cars, watering lawns
 - u. Too much grass for front yards that use water
 - v. Increase grey water options for bus and homes to allow more options
 - w. Can Bakersfield do more to store water
 - x. Incentives to homes to promote and accept drought tolerant landscapes
4. Are the communities you serve prepared for this hazard at an individual or household level?
- a. Drought tolerant policy on land development
 - b. Growing city – concerns about new casino and water use
 - c. Steel mill – high water use – Mojave east kern county
 - d. No increased water costs
 - e. No- at neither level its a long underserved area to be prepared all community members must be served equality
 - f. Is mulch a bad idea? Fire risk + better use for trees
 - g. Xeriscaping- lawns should not be the standard
 - h. Rising water costs
 - i. Charging based on amount of water used
 - j. High number of car washes and high use
 - k. Are car washes restricted during city mandated events
 - l. New car washes continue to be built
 - m. Community culture are not focused on conservation or drought prep
 - n. Low income households cannot buy bottled water if the water supply runs low
 - o. City and county do well using reclaimed water (parts of the city)
 - p. Meter water sprinklers – reduce wasteful use
 - q. Continue to support local food growth, water not always channeled

Wildfire Smoke and Air Pollution

5. What resources could support resilience/adaptation?
- a. Strategic planning because it is perpetual
 - b. Schools in some areas are surrounded by cropland & pesticides are a hazard, Del Oro is an example
 - c. Trees that are lower allergen
 - d. Assist low-income households to weatherize and have filtration
 - e. Valley air incentives for replacement of gas equipment
 - f. Programs to assist people to proactively clean fuds and reduce fire risks
 - g. Air blowers causing a lot of dust – through policy interventions
 - h. Policy for leaf blowers – continually blowing around the dust

- i. Support for cooling centers with appropriate filtration and providing masks
 - j. CA state firefighting policy (can't do strategic burning of trees)
 - k. Reduce water costs-promote community gardens and tree planting
 - l. Cooling centers (churches)
 - m. Geographic location of city (surrounded by mountains)
 - n. Response levels from BK fire (understaffed)
 - o. More support for more people
 - p. Historical racism (inequitable Lense with BK fire) (we are still recovering, many barriers exist for minority groups)
 - q. Community education on wildfire risk to metro Bakersfield
 - r. More outside cooling areas for the homeless community
 - s. HEPA air filters can reduce indoor air pollutants – promote/require - more affordable
 - t. How can the community be informed?
 - u. How do existing initiatives get money for solutions?
 - v. Education to city residents on wildfire risk – camping – fireproof the parks
 - w. Using CBO's and people living in communities to share information and resources and events
 - x. Community biking education or incentives; GBT bus route education of itinerary
6. Are the communities you serve prepared for this hazard at an individual or household level?
- a. More centers with appropriate air filters (like cooling centers)
 - b. Emergency preparedness education programs for households/families/students
 - c. Explore fuel management to reduce fire risk
 - d. Education on how to improve air quality in home when nearby fire
 - e. Vegetation to support reduced AQI However water costs are a challenge
 - f. AQI system – tiered systems for cooling systems – cooling centers to leave appropriate filtration
 - g. AQI education and responses for moderate to extreme levels for at risk populations
 - h. Education on preparation for high AQI days instead of when its happening
 - i. Wildfire: cities think they are immune from wildfire – ember storms from fires far away, wind driven
 - j. Poor communication from BK fire/ICCs to local communities of color (could use CBO's)
 - k. Being homeless can make them less prepared

- l. Cause fires- everyone needs to be aware of protecting their homes/property/family
- m. Air filter replacement programs
- n. No, high water costs
- o. Living in are decades long underserved areas – where not prepared individually or as a household
- p. Open cooling centers for at risk populations
- q. LA pollution
- r. Do homes and businesses have AC? Swamp coolers to address the need to bring into a safe place due to air pollution
- s. Alerts to families w/ medical issues so they can get ready for breathing issues
- t. What are landlord responsibilities during wildfire smoke? I.e. replacing air filters or having AC serviced.
- u. Not prepared, need air purifiers for households/businesses , need system to remove dead plants, trees (cost effective)

Extreme Precipitation and Flooding

7. What resources could support resilience/adaptation?
 - a. Increase water storage and capturing infrastructure
 - b. Update drainage systems in the city
 - c. Education and sandbags
 - d. Increase Dam stability and repair (do note that the Isabella Dam has been retrofitted lately, which reduced its hazard rating)
 - e. Evacuation emergency operation plan needed
 - f. Increase flood response capacity
 - g. Ingress/egress issue; needs to be strategically planned
 - h. Memorial Hospital is located in zone x of flooding
 - i. Use different colors of signage to notify the public regarding different levels of hazard warning
 - j. Promote lobbying with the state regarding flood insurance
8. Are the communities you serve prepared for this hazard at an individual or household levels
 - a. Isabella Dam and Kern River – fill up (the possibility of filling up Kern River with water from Isabella Dam)
 - b. City – improve stormwater infrastructure; areas and neighborhoods with older stormwater infrastructure
 - c. Drainage/sewer system improvements & maintenance in DACs

- d. No flooding is a minimal concern; the community is oblivious of how to respond and what resources are available
- e. Is there a warning system that gives those without transportation time to evacuate?
- f. Evacuation education to residents, sandbag supply and (evacuation) plan in place for flooding
- g. Infrastructure, lower income – hard to drive during flooding events; maybe some lessons that can be borrowed from the east coast and the Midwest
- h. Evacuation route signage

SHAPE BAKERSFIELD'S FUTURE!



Sustainable Opportunities
Advancing Resilience

JOIN OUR FOCUS GROUP

Help us explore ways to support communities and enhance quality of life through meaningful dialogue.

► FOCUS GROUP KICKOFF MEETING

Join us in person!

1715 Chester Ave (3rd Floor), Bakersfield, CA

Tuesday, June 18th | 11:30 AM - 1:00 PM

Lunch will be provided.

► THREE INTERACTIVE SESSIONS

This is the first of three meetings. Dates and locations for the next ones coming soon!

GET INVOLVED

Confirm your participation and RSVP today!

Contact Christina
Gulley at cgulley@bakersfieldcity.us



BAKERSFIELD



Attachment K

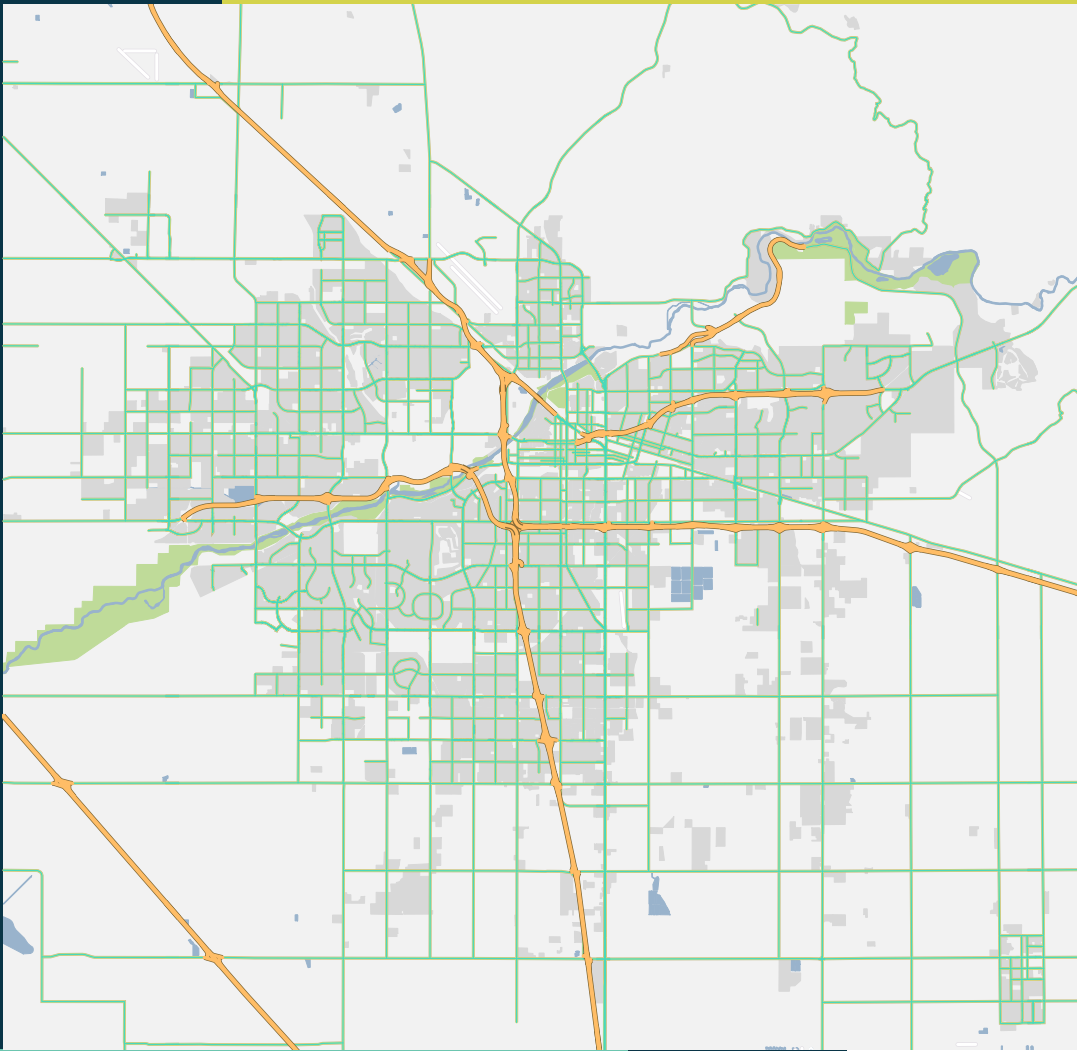
Community Based Organization Focus
Group Meeting #2



Sustainable Opportunities
Advancing Resilience

SOAR (Sustainable Opportunities Advancing Resilience) **Bakersfield**

Focus Group Meeting #2
Workforce Development
July 23, 2025



Agenda

- Focus Group Recap
- Group Activity
- Next Steps

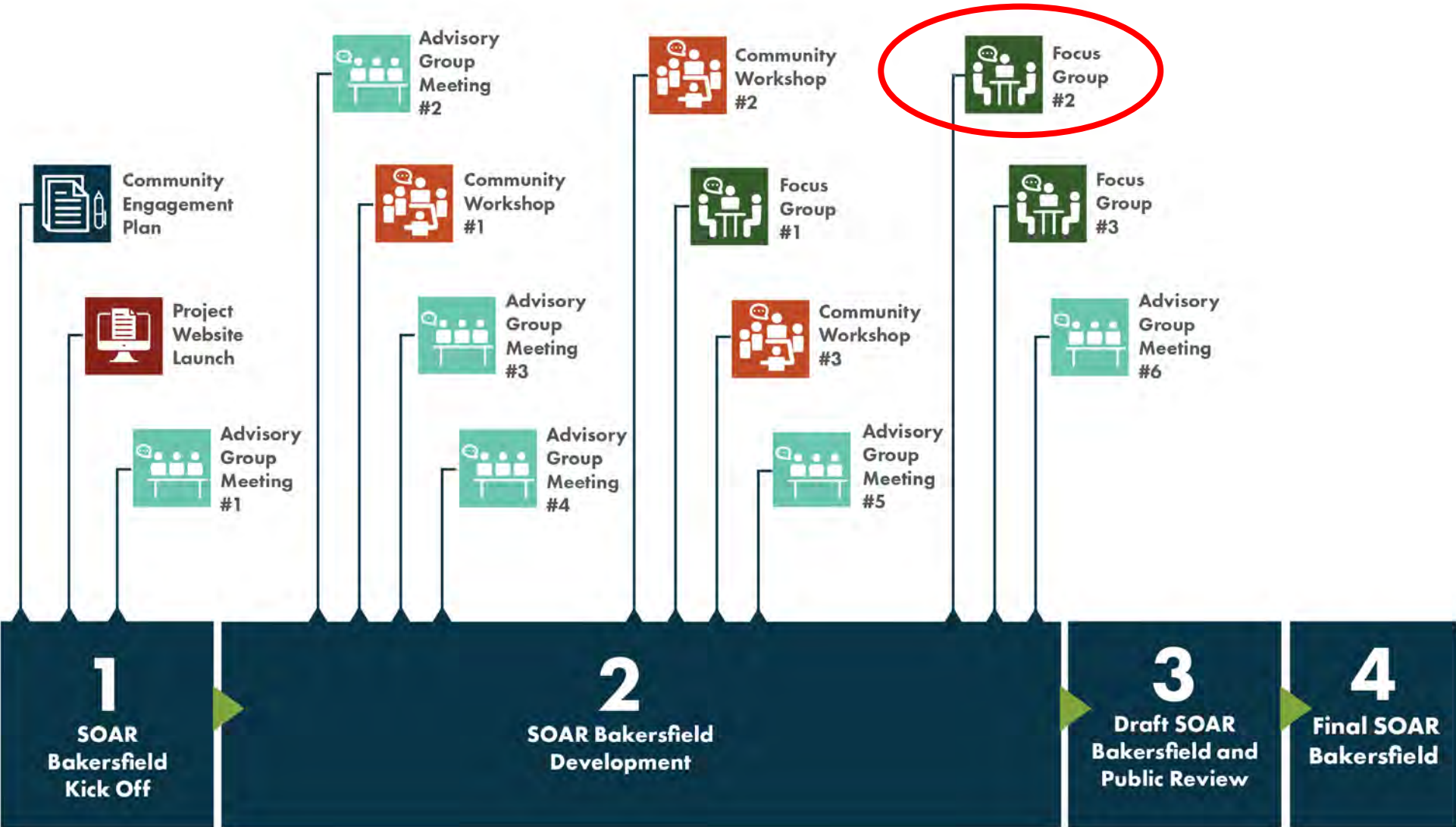
Focus Group Overview



Focus Group #1: Discussing Increased Temperature and Extreme Heat — 6/18

- Comprised of local leaders and organizations
- Meets three times during the project
 - Meeting #1, June 18 – Climate Hazards
 - Meeting #2, Today – Workforce Development
 - Meeting #3, Aug 19 – Priority Actions
- Fosters collaboration and shared learning
- Helps shape SOAR Bakersfield by:
 - Aligning strategies with local priorities
 - Bringing real-life experience into planning
 - Sharing updates and opportunities across communities

Project Schedule





Workforce Development

A sustainable and resilient Bakersfield requires a trained and specialized workforce across a variety of trades.

- Construction laborers and managers
- Plumbers, electricians, HVAC technicians
- Engineers, planners, conservation biologists, arborists
- Energy and fuel production facility operators and engineers/chemists
- Other?

What We've Heard So Far

Community Interests

- Hands-on training through apprenticeships and on-the-job experience
- Certifications and partnerships to support green and emerging industries
- Stronger coordination between schools, programs, and employers
- Expanding opportunities through local business and union involvement

Ongoing Challenges

- Cost continues to limit access to training and education
- Gaps in local programs, especially limited instructors and capacity
- Outreach doesn't always reach all communities
- Navigating the workforce system can be confusing and fragmented

Discussion Questions

- What are social barriers (e.g., language, race, socioeconomic status) to securing jobs in construction and energy trades?
- What are gaps in, or challenges to accessing, existing job training programs?
- Are there any growing opportunity areas that could support high-paying jobs?

Workforce Development

What are social barriers (e.g., language, race, socioeconomic status) to securing jobs in construction and energy trades?

What are gaps in, or challenges to accessing, existing job training programs?

Are there any growing opportunity areas that could support high-paying jobs?

Ground Rules for Activity

- Be here now.
- One speaker at a time.
- “Step up” to voice your thoughts
- “Step back” to let others speak
- Be additive, not repetitive
- Listen actively (seek to understand, keep an open mind)
- Help the facilitator to keep things on time

Next Steps

- **Next Focus Group Meeting:** August 19, 2025 at 12:00 p.m.
- **Questions?** Email soar@bakersfieldcity.us
- **Scan the QR Code** to visit the project website for more information and to take the survey



Or type: qrco.de/soar-bakersfield

Thank You

Are there any growing opportunity areas that could support high-paying jobs?

All over east
Bakersfield

Technology-software
development,
cybersecurity

AI and computer
engineering

Electricians

EV Charger installers-
lets add some to East
Bakersfield areas

Building and trades
and clean energy

Provide subtraining
programs prior to offering
training programs

Trades

Cybersecurity

Putting it out to the
community more so
that they know

Oil Well Capping

Stats and data
management

clean energy

Work with the
colleges

How can your organization support better workforce development and access to training?

WESTEC, Inc. - offer a TFS Program to help people with training at no cost.
Westec.org or email peterm@westec.org

Become a Hub for training
Bakersfield Senior Center
Lilli J Parker
lillijparker@gmail.com

The Open Door Network has a Pathways to innovation program- focusing on job readiness

AANKC will continue to get important information out to our different tribes through their trusted messengers.

Offer TA assistance -
Transportation Support
(Areas that align with Blue Zones efforts)

Org Support - Boys & Girls Clubs of Kern County has a Workforce Readiness/ Summer Jobs Program and we are planning to build a Life & Workforce Readiness Center in East Bakersfield/Old Town Kern to expand services for teens and young adults (up to age 24)

What are social barriers (e.g., language, race, socioeconomic status) to securing jobs in construction and energy trades?

Gender Bias

Discrimination

Stigma

Lack of reliable transportation

no funds for union dues

Stereotypes

lack of opportunity including training

Not being bilingual

Harassment

Educational barriers - not meeting minimum ed. requirements

Experience

lack of trainign programs

Lack of access to social networks - connections through referrals...

Lack of culturally-sensitive recruitment and support

Communication - Trusted messagers to explain what, how and why it can impact the person or their community

Hookup

transportationLack of personal funds for training, limited financial assistance

Lack of Support

Employers may prefer someone with more training or experience

geographical barriers

Lack of support at home for career direction that may be different from parents careers/jobs

Schools focus on higher education vs trade schools - not enough spots for teens at ROC and CTEC

What are gaps in, or challenges to accessing, existing job training programs?

People have limited awareness of the existing training programs- Lets promote more.

Limited space for trainees (only so many can be accepted at a time)

definitely transportation

Lack of Wraparound Services - connect transportation, housing, childcare to make it easier...

Where to locate the job programs and Communication

Some Individuals don't qualify due to grant funding or other requirements

Lack of integrated education

not enough spots for teens at ROC and CTEC

Time Constraints

Justice involved individuals looking for someone to give them a second chance don't always get it.

Programs operate during standard hours - lets offer evening, weekend and part-time options for those already working elsewhere...

Lack of job readiness skills

Limited Instructors and capacity . Navigating the workforce system can be be confusing.

mentors in the various fields

Lack of online access

viable stipends to support while training

More hands on training

Follow up support - interview coaching, conflict resolution training for retention purposes.

under funding

more Locations

Not having zoom available

How can the City better support you?

Provide grants or funding

Grants that help support individuals pay for the cost of training

Recruit businesses that offer high paying jobs

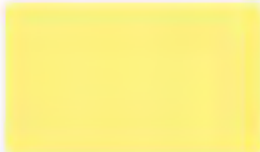
City continue to send updated information. AANKC receives job openings.

Offer Transportation Stipends

collab with GET increase bus routes and schedules

City has been very supportive of our Workforce Readiness expansion goals through grants and staff assistance.

Share a website with upcoming events with programs occurring in Bako



Attachment L

Community Based Organization Focus
Group Meeting #3



Sustainable Opportunities
Advancing Resilience

AGENDA

SOAR Bakersfield | Focus Group Meeting #3

Priority Measures and Implementation

August 19, 2025 | 12:00 p.m. – 1:00 p.m.

Zoom Meeting ID: 829 3932 0345; Passcode: 718142

Link: https://us06web.zoom.us/j/82939320345?tk=5ggqhrMjcC5-JauTiIE663PmF_BPpARmrH4bWezcyWfk.DQgAAAATT5GYGRZ4UG9xRW5UQ1Q4NnB1WjhYUjFLUGxnAA&pwd=TDVrpdakLDtr1ay2xAqtfUhWx3D48N.1

Discussion Items		Time
1.	Welcome	12:00 p.m.
2.	Presentation and Activity Introduction	12:05 p.m.
3.	Mural Activity and Discussion – SOAR Bakersfield Draft Measures	12:10 p.m.
4.	Wrap Up and Next Steps	12:55 p.m.

ATTACHMENTS AND ACTIVITY:

SOAR Bakersfield Draft Measures Word Document:

To have as much time as possible for discussion and the activity, please review the SOAR Bakersfield Draft Measures document before the meeting. Feel free to provide feedback and comments within the document itself. Comments can be emailed to: soar@bakersfieldcity.us.

Mural Board Group Activity Link

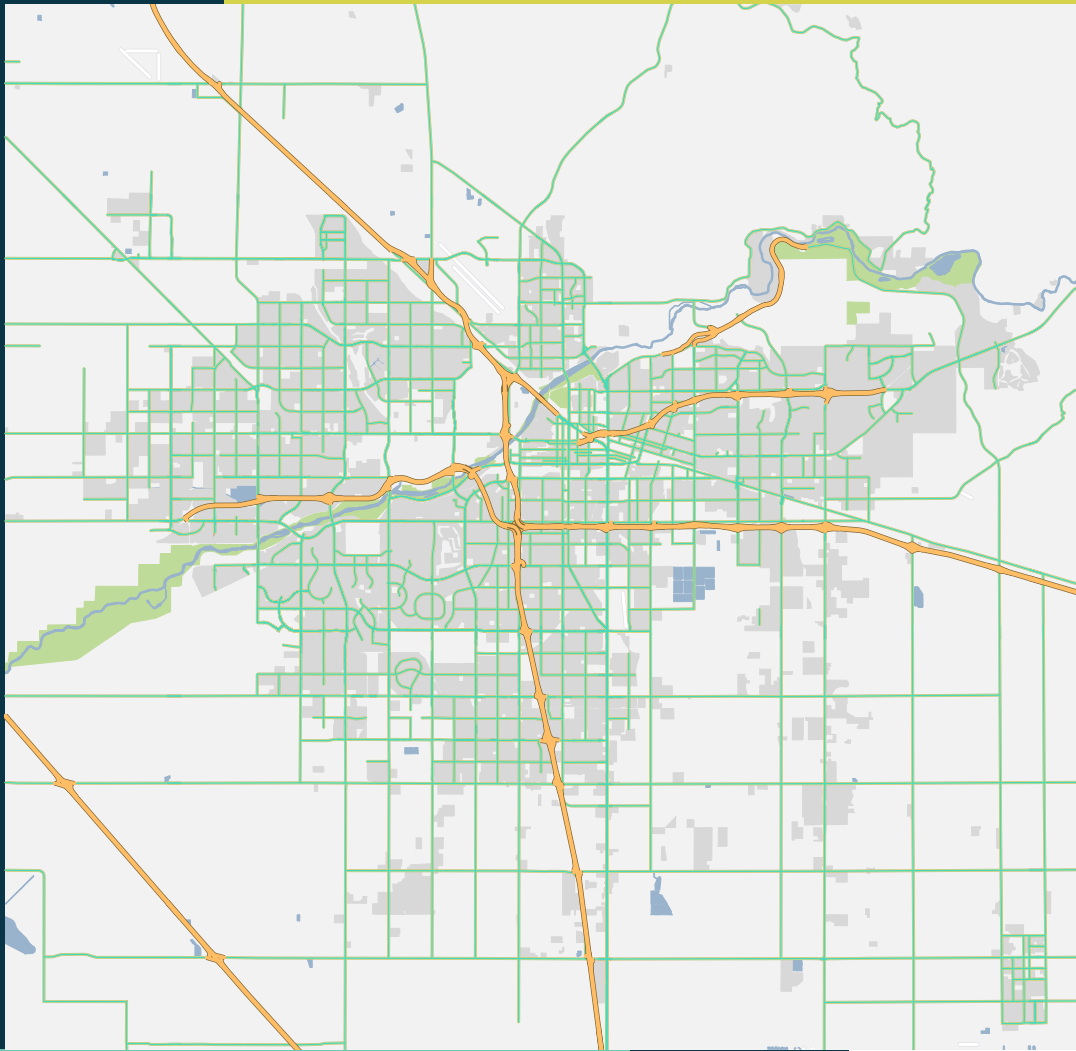
[Focus Group #3: SOAR Bakersfield 8.19.25](#)



Sustainable Opportunities
Advancing Resilience

SOAR (Sustainable Opportunities Advancing Resilience) **Bakersfield**

Focus Group Meeting #3
Priority Measures and Implementation
August 19, 2025



Agenda

- Focus Group Recap
- SOAR Bakersfield Draft Measures
- Group Activity
- Next Steps

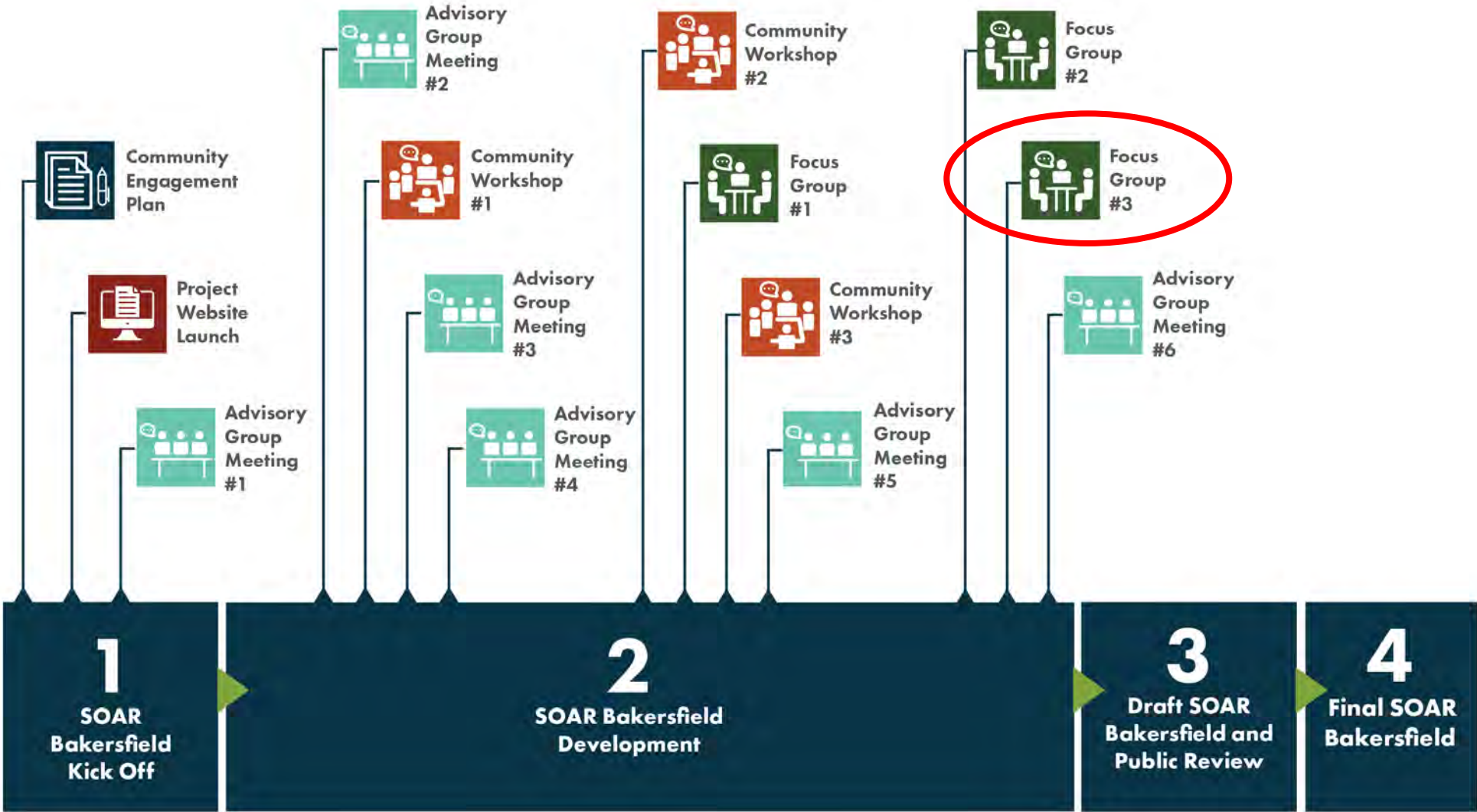
Focus Group Overview



Focus Group #1: Discussing Increased Temperature and Extreme Heat — 6/18

- Comprised of local leaders and organizations
- Meets three times during the project
 - Meeting #1, June 18 – Climate Hazards
 - Meeting #2, July 23 – Workforce Development
 - **Meeting #3, Today– Priority Measures**
- Fosters collaboration and shared learning
- Helps shape SOAR Bakersfield by:
 - Aligning strategies with local priorities
 - Bringing real-life experience into planning
 - Sharing updates and opportunities across communities

Project Schedule



SOAR Bakersfield Goals

Sustainability

- Reduce electricity use, fuel use, landfilling waste
- Manage natural lands and open space
- Spur green industries and investments

Resilience

- Improve heat resilience
- Implement nature-based solutions
- Reduce air pollutants and wildfire smoke exposure

Community Benefit

- Reduce energy and transportation costs
- Enhance services for underserved communities
- Reduce pollution burden



Measures Development Process

SOAR Bakersfield Draft Measures were developed through:

- Review of existing plans and studies related to land use, transit, energy efficiency, urban greening, and other topic areas
- Compilation of planned or partially-funded City projects and programs
- Engagement with community members, organizations, and regional governmental entities

Measures Structure and Discussion Questions



- How can local/regional organizations can help implement measures?
- Are there recommended revisions or additions to measures?
- Which measures should be prioritized?

Resilience

Extreme Heat, Wildfire, and Flooding

Community Resilience Center

Programs: Identify community cooling centers throughout Bakersfield and develop a communication platform/protocol for informing residents and community-based organizations of extreme heat and air pollution hazards and where they can seek relief.

Comments or suggested revisions:

Doesn't this already exist?	It double check with my department to see if we offer this at any of our BAC centers	
		Contract out the work to CBOs with a focus on rural communities

Flooding Preparedness: Assist

homeowners and businesses to raise mechanical equipment, such as electrical and HVAC, in homes and buildings within the 100- and 500-year floodplains.

Comments or suggested revisions:

Is this really a function of city government?	With the labels I think repaired, is this still a major concern?	Education of population of special 100 year urban flooding zones
I think the percentage of a flood is a little high based on some recent research findings.		I would think this would get more incentive and many city leaders need to be replaced

Shifted Work Hours During Summer:

Encourage employers to shift working hours during the summer to avoid working outside during peak daily temperatures, typically 3 p.m. to 6 p.m.

Comments or suggested revisions:

I think most employers with employees working outside would be really a lot like to consider.	I do know our employees start at an earlier time since they work outdoors	

Structural Hardening: Support structural hardening retrofits, such as roof and siding repairs/replacements, when existing buildings in the Moderate and High Fire Hazard Severity Zone are redeveloped.

Comments or suggested revisions:

Where is the High Fire Hazard Severity Zone in Bakersfield?	Extended to nonresidential	

Ground Rules for Activity

- Be here now.
- One speaker at a time.
- “Step up” to voice your thoughts
- “Step back” to let others speak
- Be additive, not repetitive
- Listen actively (seek to understand, keep an open mind)
- Help the facilitator to keep things on time

Next Steps

- **Public Draft of SOAR Bakersfield Available October 2025**
- **Questions or feedback on measures?** Email soar@bakersfieldcity.us
- **Scan the QR Code** to visit the project website for more information



Or type: qrco.de/soar-bakersfield



**Thank you for your
ongoing participation!**

Community Resilience Center

Programs: Identify community cooling centers throughout Bakersfield and develop a communication platform/protocol for informing residents and community-based organizations of extreme heat and air pollution hazards and where they can seek relief.

Comments or suggested revisions:

Doesn't this already exist?

I'll double check with my department to see if we offer this at any of our Rec centers

Contract out the work to CBO's with a focus on rural communities

Flooding Preparedness: Assist homeowners and businesses to raise mechanical equipment, such as electrical and HVAC, in homes and buildings within the 100- and 500-year floodplains.

Comments or suggested revisions:

Is this really a function of city government?

With the Isabella dams repaired, is this still a major concern?

Education of population of special 100 year urban flooding zones

I think the percentage of a flood is at a low rate based on some recent research I've done.

I would think this would get rather expensive and many units would need to be replaced

Shifted Work Hours During Summer:

Encourage employers to shift working hours during the summer to avoid working outside during peak daily temperatures, typically 3 p.m. to 6 p.m.

Comments or suggested revisions:

I think most employers with employees working outside already work as early in the day as possible.

I do know our employees start at an earlier time since they work outdoors

Structural Hardening: Support structural hardening retrofits, such as roof and siding repairs/replacements, when existing buildings in the Moderate and High Fire Hazard Severity Zone are redeveloped.

Comments or suggested revisions:

Where is the High Fire Hazard Severity Zone in Bakersfield?

Extended to homeowners

California Inland Port: In partnership with Kern COG and other local jurisdictions, identify locations for and support the development of an intermodal freight facility and increased rail freight capacity to shift freight from trucks to rail. The California Inland Port Project proposes a new intermodal rail spine that would connect the Central Valley to the Ports of Long Beach and Los Angeles, serving as a logistics center for interstate and international movement of goods.

Comments or suggested revisions:

Does this already exist at the Wonderful Industrial Park in Shafter? If so, there's no need to replicate it in Bakersfield.

Expand rail lines around metro area



Medium- and Heavy-Duty Electric Vehicle Infrastructure: Install medium- and heavy-duty (MD/HD) electric vehicle (EV) charging infrastructure following the guidance of Kern County Blueprint for MD/HD Infrastructure.

Comments or suggested revisions:

Is this about private sector or public sector development of an infrastructure?

EV Charging in Underserved

Communities: Identify opportunities with developers on concurrent community revitalization efforts to include EV charger installations in public spaces and near multifamily housing developments.

Comments or suggested revisions:

How many disadvantaged people drive EVs? Is there a need/demand for this?

identify a funding source to add EV charging at existing MH housing sites

Extend to shopping centers

EV Car Share Program: In partnership with community-based organizations, develop an EV car share program for areas of the city that are not well served by transit.

Comments or suggested revisions:

This has been done elsewhere (Arvin, I think) so there's a model for doing this already.

Infill Development and Housing:

Provide incentives and technical assistance for development of infill residential projects and redevelopment of commercial properties for residential uses.

Comments or suggested revisions:

Great Idea!

SB 9 Implementation
plan

leverage VMT
implementation bank
and TOD development

Private Sector Shuttles and Commute Reduction: Partner with large employers (greater than 100 employees) in Bakersfield to enhance commute reduction efforts, building on Valley Air District's Rule 9410, which requires employers to reduce single-occupancy vehicle trips.

Comments or suggested revisions:

encourage walk-able
development

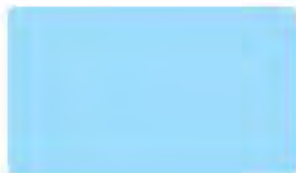
High-Speed Rail Circulator Shuttle:

Consider a circulator shuttle service that provides bi-directional frequent, free, or low-cost connections between the High-Speed Rail station and downtown destinations as a supplement to regular GET and Kern Transit bus service.

Comments or suggested revisions:

Add a direction connection between the HSR Station and Meadows Field (requires cooperation with KC)

I think this would be beneficial



Low Stress Bike Network Plan: In coordination with Kern COG and Kern County, implement the recommended bike network projects identified in the Bakersfield Low Stress Bike Network Plan.

Comments or suggested revisions:

Low Stress Bike
Network Plan"
different from the
city's bicycle plan ?

Downtown Walkability Plan: Create a Walkability Plan and/or Pedestrian Design Guidelines for downtown and southeast Bakersfield that seeks to improve street lighting, safer crosswalks, ADA compliance, shading, urban greening, and signage, consistent with the Transformative Climate Communities Plan.

Comments or suggested revisions:

What would be requested for urban greening?

Turf Replacement Program: The Turf Replacement Program involves redesigning select medians throughout Bakersfield. High-priority phases of the program include landscaping and irrigation improvements on Old River Road, Buena Vista, S. Allen, Bernard, and Beale, totaling 23 medians where improvements would be made.

Comments or suggested revisions:

		Underserved and under resourced communities should be prioritized

Waste Reduction Education: Develop waste reduction and diversion behavior campaigns in partnership with local organizations for residential, multifamily property managers, and commercial uses. This campaign will aim to increase participation in curbside and drop-off diversion programs, while simultaneously reducing contamination of recoverable waste.

Comments or suggested revisions:

I think this will be a long-term education effort to change behaviors.

Food Redistribution: In partnership with Kern County Public Health's Waste Hunger, Not Food program, redistribute surplus edible food to community members in need.

Comments or suggested revisions:

Great idea, but where/how would the city get this surplus food? Would a new city program be redundant to something already being done by the county or a CBO?

Work with CBO's on distribution efforts

Public Health is facing substantial budget cuts, this program may be impacted

Kern River Parkway Tree Canopy and Vegetation Restoration: Plant vegetation to restore tree canopy, vegetative cover, and diversity of plant species in the parks or along the parkway to improve green infrastructure, wildlife habitat, parkway aesthetics, shade, climate resiliency, and the recreational experience.

Comments or suggested revisions:

Include a mosquito
abatement program in
the sustainability pla

Residential Tree Planting: Establish a citywide 'Free Tree Program' that provides residents with free trees to plant on their properties and support the program with ongoing care instruction workshops. Tree species should be selected from the approved tree palette.

Comments or suggested revisions:

Include fruit trees

Vegetative Barrier Expansion: Install vegetative barriers and plant drought-tolerant vegetative barriers. Conduct a study to determine priority pollution-burdened areas of Bakersfield that may benefit most from vegetative barriers and plant drought-tolerant vegetative barriers.

Comments or suggested revisions:

Prioritize drought resistant fruit trees

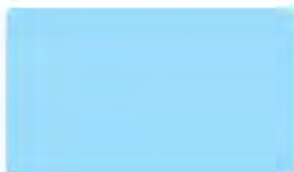
Expand Education and Certification Opportunities: Support increased access to and increased capacity of education and certification programs that provide opportunities in construction trades, and green energy and infrastructure occupations.

Comments or suggested revisions:

Lots of great programs already exist at CTEC, BC, WESTEC and other providers. Increasing knowledge of existing programs and importance of trades is good.

emphasis on healthcare education is needed. Anticipated demographic changes will require more healthcare workers.

expand post-secondary educational opportunities



Community-Based Organization

Partnerships: Establish partnerships with CBOs to increase access to workforce training programs for underserved groups.

Comments or suggested revisions:

I don't know what a partnership involves, but just knowing what CBO provides what training is good knowledge to have and be able to share at any time.

Community Resilience Center

Programs: Identify community cooling centers throughout Bakersfield and develop a communication platform/protocol for informing residents and community-based organizations of extreme heat and air pollution hazards and where they can seek relief.

Comments or suggested revisions:

People may not all have access to information; social media can be an effective way to reach people

There is a digital divide in the Southeast - there needs to be additional ways of reaching people; direct in-person outreach may be needed

There needs to be multiple methods of outreach - digital/in person/through organizations

Partnerships with CBOs would be a key way of sharing information - creating information sharing mechanisms

partner with local business and community spaces (libraries, etc.) to put up flyers

ensure that all materials are multi-lingual

high priority! Should also include increasing the overall number of cooling/resiliency centers

Flooding Preparedness: Assist homeowners and businesses to raise mechanical equipment, such as electrical and HVAC, in homes and buildings within the 100- and 500-year floodplains.

Comments or suggested revisions:

Floodplain data
needs to be
updated and shared

Shift towards heat
pumps creates
additional challenges -
heat and cost

Preparedness is critical -
due to large growth some
areas of preparedness
have fallen behind - in all
areas of hazards



Shifted Work Hours During Summer:

Encourage employers to shift working hours during the summer to avoid working outside during peak daily temperatures, typically 3 p.m. to 6 p.m.

Comments or suggested revisions:

This seems like a no brainer, but lots of advocating would be needed

This already occurs on a regular basis in construction

I love this idea but am concerned about the practicality of implementation when this is really an employer action

California Inland Port: In partnership with Kern COG and other local jurisdictions, identify locations for and support the development of an intermodal freight facility and increased rail freight capacity to shift freight from trucks to rail. The California Inland Port Project proposes a new intermodal rail spine that would connect the Central Valley to the Ports of Long Beach and Los Angeles, serving as a logistics center for interstate and international movement of goods.

Comments or suggested revisions:

locations are a huge concern as freight tends to be located near already overburdened communities

very concerned about increase in inland ports - this needs to be done carefully to avoid doubly impacting residents that are already suffering due to transit impacts



EV Charging in Underserved

Communities: Identify opportunities with developers on concurrent community revitalization efforts to include EV charger installations in public spaces and near multifamily housing developments.

Comments or suggested revisions:

Transformers may not have the capacity to support a significant EV fleet;
Challenges with electricity supply

Responsiveness from IOUs is a challenge that can substantially increase project costs

high priority! underserved communities should also have access to the incentives and resources other communities get

EV Charging Incentives: Create an educational campaign to promote Valley Air District's Charge Up! Program and Clean Vehicle Fueling Infrastructure Program. The Charge Up! Program provides incentives for public agencies, businesses, and multifamily residence property owners to install EV chargers. The Clean Vehicle Fueling Infrastructure Program provides incentives for clean vehicle fueling stations for heavy-duty vehicles.

Comments or suggested revisions:

There is still a stigma about electric vehicles, and reducing that is needed for people to transition.

EV Car Share Program: In partnership with community-based organizations, develop an EV car share program for areas of the city that are not well served by transit.

Comments or suggested revisions:

high priority! make sure to talk to residents about where these programs should be located

Infill Development and Housing:

Provide incentives and technical assistance for development of infill residential projects and redevelopment of commercial properties for residential uses.

Comments or suggested revisions:

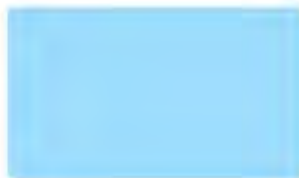
Single-family zoning continues to be a problem

Creating more dense housing (multi family) is a challenge In low income areas - mixed use does not need to be prioritized



Bus Rapid Transit on Key Corridors: In partnership with Golden Empire Transit (GET) and Kern COG, implement bus rapid transit (BRT) on key corridors, including Chester, California West, and California East. GET is currently planning for implementation of at least one BRT route, which will include the installation of 35 queue jump lanes, 150 bike parking and bike kiosks, and bus shelters across the BRT line.

Comments or suggested revisions:



high priority! I like including the first and last mile infrastructure as well

should include infrastructure such as bus shelters and lighting at bus stops



Downtown Bakersfield Pedestrian Access to Transit Improvements:

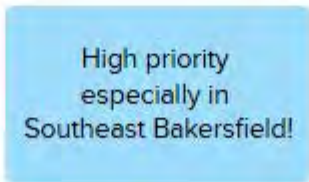
Implement specific recommendations for improving pedestrian infrastructure included in the Downtown Bakersfield Pedestrian Access to Transit Plan.

Comments or suggested revisions:

love expanding pedestrian access but should be expanded beyond just Downtown - especially Southeast Bakersfield

Downtown Walkability Plan: Create a Walkability Plan and/or Pedestrian Design Guidelines for downtown and southeast Bakersfield that seeks to improve street lighting, safer crosswalks, ADA compliance, shading, urban greening, and signage, consistent with the Transformative Climate Communities Plan.

Comments or suggested revisions:



Waste Reduction Education: Develop waste reduction and diversion behavior campaigns in partnership with local organizations for residential, multifamily property managers, and commercial uses. This campaign will aim to increase participation in curbside and drop-off diversion programs, while simultaneously reducing contamination of recoverable waste.

Comments or suggested revisions:

make sure that the materials are not making residents feel guilty for past actions or for their consumption patterns - individuals are not responsible for the climate crisis

Food Redistribution: In partnership with Kern County Public Health's Waste Hunger, Not Food program, redistribute surplus edible food to community members in need.

Comments or suggested revisions:

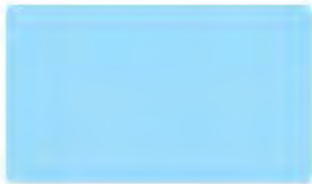
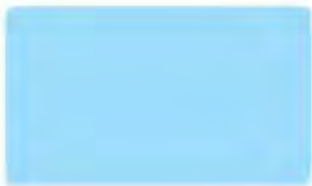
great idea! work with community residents and organizations to ensure that folks are aware of the program and how to get involved

Kern River Parkway Plan Priority

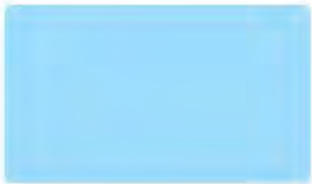
Projects: The Kern River Parkway Plan proposes eight projects to improve the Kern River Parkway over the next ten years, while generating excitement for future projects along the parkway.

Projects reflect a balance of recreational improvements and natural resource protection.

Comments or suggested revisions:



communication needs to
be clear about when
residents can expect to
see these improvements



Kern River Parkway Tree Canopy and Vegetation Restoration: Plant vegetation to restore tree canopy, vegetative cover, and diversity of plant species in the parks or along the parkway to improve green infrastructure, wildlife habitat, parkway aesthetics, shade, climate resiliency, and the recreational experience.

Comments or suggested revisions:

	make sure that the plants are all native and drought-resistant	

Residential Tree Planting: Establish a citywide 'Free Tree Program' that provides residents with free trees to plant on their properties and support the program with ongoing care instruction workshops. Tree species should be selected from the approved tree palette.

Comments or suggested revisions:



high priority! make sure that the communication around the program includes best practices - (1/2)

partner with CBOs, include in-person outreach, ensure outreach is multi-lingual, and target underserved communities (2/2)

Vegetative Barrier Expansion: Install vegetative barriers and plant drought-tolerant vegetative barriers. Conduct a study to determine priority pollution-burdened areas of Bakersfield that may benefit most from vegetative barriers and plant drought-tolerant vegetative barriers.

Comments or suggested revisions:

high priority!		look at the UCLA-produced heat map that shows intersection of extreme heat and tree coverage

SOAR Bakersfield Draft Measures

SOAR Bakersfield will feature a range of measures designed to advance sustainability, strengthen resilience, and deliver meaningful benefits to the community. The table below highlights key draft measures that emerged through engagement with community members and align with existing plans and studies and reflect priority projects for the City of Bakersfield.

Your input is essential. Feedback from the community will help refine and prioritize these measures, and identify additional ideas that may be missing. This list is not complete, and additional measures will be identified as SOAR Bakersfield progresses. The full set of measures will be shared in the public draft of SOAR Bakersfield, expected to be available in October 2025. There will be additional opportunities for sharing input and feedback at that time.

These measures will be discussed at the upcoming meeting. Because our meeting time will be limited, we encourage you to review the list in advance. The discussion will focus on:

- How regional organizations can help implement these measures,
- Recommended revisions or additions, and
- Which measures should be prioritized.

In the table below, measures are organized by “Opportunity Area” (e.g., Renewable Energy, Land Use, Urban Greening), and grouped into broader “Categories” (e.g., Resilience, Energy, Solid Waste). Where applicable, the source plan or study from which a measure originated is also noted. The far right column of the table is where comments on the measure or suggested revisions can be written. Comments and revisions can be sent to: soar@bakersfieldcity.us, or provided during the discussion at the upcoming meeting. Feedback will be used to refine and expand the measures in SOAR Bakersfield.

SOAR Bakersfield Draft Measures

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
Resilience	Extreme Heat, Wildfire, and Flooding	Community Resilience Centers Program	Identify community cooling centers throughout Bakersfield and develop a communication platform/protocol for informing residents and community-based organizations of extreme heat and air pollution hazards and where they can seek relief.		
		Flooding Preparedness	Assist homeowners and businesses to raise mechanical equipment, such as electrical and HVAC, in homes and buildings within the 100- and 500-year floodplains.		
		Shifted Work Hours During Summer	Encourage employers to shift working hours during the summer to avoid working outside during peak daily temperatures, typically 3 p.m. to 6 p.m.		
		Structural Hardening	Support structural hardening retrofits, such as roof and siding repairs/replacements, when existing buildings in the Moderate and High Fire Hazard Severity Zone are redeveloped.		
Energy	Building Energy Efficiency	Continued Low-Income Energy Efficiency Program	Continue to offer no-cost energy audits and completion of limited weatherization and energy efficiency upgrades for low-income households in southeast Bakersfield.	Transformative Climate Communities Plan	

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
		Energy Efficiency Education and Assistance	Create a program to deliver information and technical assistance for accessing low-cost energy efficiency upgrades and available rebates, incentives, and grant programs.		
		Affordable Housing Energy Efficiency	Identify and assess priority affordable housing sites in Bakersfield for energy efficiency, electrification, and backup power generation measures.		
	Renewable Energy	Continue and Expand Solar Installations at Residences	Continue partnering with GRID Alternatives and Kern Community College District through the Transformative Climate Communities implementation program to provide low-income homeowners in southeast Bakersfield access to affordable solar energy. The program is currently active and will provide solar photovoltaic generating systems to households in southeast Bakersfield.	Transformative Climate Communities Plan	
		Battery Storage	Support the replacement of diesel- and natural gas-fueled backup generators with solar and battery storage.		
		Microgrids at Warehousing Facilities	Support new warehousing facilities to install solar-powered microgrids to reduce the use of diesel generators for backup/supplemental power sources.		
Transportation and Land Use		California Inland Port	In partnership with Kern COG and other local jurisdictions, identify locations for and	Kern COG - Kern Area Regional	

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
	Freight and Heavy-Duty Vehicles		support the development of an intermodal freight facility and increased rail freight capacity to shift freight from trucks to rail. The California Inland Port Project proposes a new intermodal rail spine that would connect the Central Valley to the Ports of Long Beach and Los Angeles, serving as a logistics center for interstate and international movement of goods.	Goods-Movement Operations	
		Autonomous Zero-Emission Vehicle (ZEV) Truck Systems	Support testing and development of an autonomous ZEV truck system that operates on designated roadways to deliver goods between facilities within Bakersfield and surrounding areas.	Kern COG - Kern Area Regional Goods-Movement Operations	
		Medium- and Heavy-Duty Electric Vehicle Infrastructure	Install medium- and heavy-duty (MD/HD) electric vehicle (EV) charging infrastructure following the guidance of Kern County Blueprint for MD/HD Infrastructure.	Kern COG - Kern County Blueprint for MD/HD Infrastructure	
	Alternative Fuels for Passenger Vehicles	EV Charging in Underserved Communities	Identify opportunities with developers on concurrent community revitalization efforts to include EV charger installations in public spaces and near multifamily housing developments.		
		EV Charging Incentives	Create an educational campaign to promote Valley Air District's Charge Up! Program and Clean Vehicle Fueling Infrastructure Program. The Charge Up! Program provides incentives for public	Kern COG - Kern Electric Vehicle Charging Station Blueprint	

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
			agencies, businesses, and multifamily residence property owners to install EV chargers. The Clean Vehicle Fueling Infrastructure Program provides incentives for clean vehicle fueling stations for heavy-duty vehicles.		
		EV Car Share Program	In partnership with community-based organizations, develop an EV car share program for areas of the city that are not well served by transit.	Kern COG - Kern Electric Vehicle Charging Station Blueprint	
	Land Use	Infill Development and Housing	Provide incentives and technical assistance for development of infill residential projects and redevelopment of commercial properties for residential uses.	Revised Draft 2023-2031 Housing Element	
		Accessory Dwelling Units	Promote the construction of accessory dwelling units and streamline the permitting process for project applications.	Revised Draft 2023-2031 Housing Element	
	Transportation Demand Management	Vanpools	In partnership with Kern COG, expand and promote the use of vanpools by supporting employers and community members in securing funding for and establishing vanpools for commuting to and from work.		
		Private Sector Shuttles and Commute Reduction	Partner with large employers (greater than 100 employees) in Bakersfield to enhance commute reduction efforts, building on Valley Air District's Rule 9410, which		

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
			requires employers to reduce single-occupancy vehicle trips.		
	Transit Improvements	Bus Rapid Transit on Key Corridors	In partnership with Golden Empire Transit (GET) and Kern COG, implement bus rapid transit (BRT) on key corridors, including Chester, California West, and California East. GET is currently planning for implementation of at least one BRT route, which will include the installation of 35 queue jump lanes, 150 bike parking and bike kiosks, and bus shelters across the BRT line.	Golden Empire Transit District Long-Range Transit Plan – 2025-2044	
		Bicycle Facilities at Downtown and Southwest Transit Centers	In partnership with GET, install secure bicycle storage at the Downtown and Southwest Transit Centers to improve multimodal connectivity with transit.	Golden Empire Transit District FY 25/26 - 29/30 Short-Range Transit Plan	
		Downtown Bakersfield Pedestrian Access to Transit Improvements	Implement specific recommendations for improving pedestrian infrastructure included in the Downtown Bakersfield Pedestrian Access to Transit Plan.	Downtown Bakersfield Pedestrian Access to Transit Plan	
	High-Speed Rail Station Connections	High-Speed Rail Station Area Plan “Green Loop”	In partnership with the California High-Speed Rail Authority, implement the three projects identified in the Downtown Bakersfield High-Speed Rail Station Area Plan that would create a green loop	Downtown Bakersfield High-Speed Rail Station Area Plan	

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
			forming a continuous active transportation network around downtown Bakersfield.		
		High-Speed Rail Circulator Shuttle	Consider a circulator shuttle service that provides bi-directional frequent, free, or low-cost connections between the High-Speed Rail station and downtown destinations as a supplement to regular GET and Kern Transit bus service.		
	Walkability and Bicycle Networks	Low Stress Bike Network Plan	In coordination with Kern COG and Kern County, implement the recommended bike network projects identified in the Bakersfield Low Stress Bike Network Plan.	Bakersfield Low Stress Bike Network Plan	
		Downtown Walkability Plan	Create a Walkability Plan and/or Pedestrian Design Guidelines for downtown and southeast Bakersfield that seeks to improve street lighting, safer crosswalks, ADA compliance, shading, urban greening, and signage, consistent with the Transformative Climate Communities Plan.	Transformative Climate Communities Plan	
		Wayfinding Program in Downtown and Southeast Bakersfield	Create a wayfinding program, consistent with the Transformative Climate Communities Plan, to guide people who walk and bike through safe and improved routes to major destinations in downtown and southeast Bakersfield.	Transformative Climate Communities Plan	
Water	Water Efficiency and Supply	Turf Replacement Program	The Turf Replacement Program involves redesigning select medians throughout Bakersfield. High-priority phases of the		

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
			program include landscaping and irrigation improvements on Old River Road, Buena Vista, S. Allen, Bernard, and Beale, totaling 23 medians where improvements would be made.		
		City of Bakersfield Water Smart Meters	The City of Bakersfield recently received grant funding to install 5,500 smart meters at residential units across its service area. While this funding supports a portion of the deployment, additional funding will be needed to complete full installation for all customers within the service area.		
Solid Waste	Organic Waste Diversion	Waste Reduction Education	Develop waste reduction and diversion behavior campaigns in partnership with local organizations for residential, multifamily property managers, and commercial uses. This campaign will aim to increase participation in curbside and drop-off diversion programs, while simultaneously reducing contamination of recoverable waste.		
		Food Redistribution	In partnership with Kern County Public Health's Waste Hunger, Not Food program, redistribute surplus edible food to community members in need.		
Nature-Based Solutions	Kern River	Kern River Parkway Plan Priority Projects	The Kern River Parkway Plan proposes eight projects to improve the Kern River Parkway over the next ten years, while	Kern River Parkway Plan	

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
			generating excitement for future projects along the parkway. Projects reflect a balance of recreational improvements and natural resource protection.		
		Kern River Parkway Tree Canopy and Vegetation Restoration	Plant vegetation to restore tree canopy, vegetative cover, and diversity of plant species in the parks or along the parkway to improve green infrastructure, wildlife habitat, parkway aesthetics, shade, climate resiliency, and the recreational experience.	Kern River Parkway Plan	
	Urban Greening	Tree Maintenance Public Education	Develop information and materials to support public awareness and understanding of tree requirements and needs.	Central City and Citywide Tree Plan	
		Residential Tree Planting	Establish a citywide 'Free Tree Program' that provides residents with free trees to plant on their properties and support the program with ongoing care instruction workshops. Tree species should be selected from the approved tree palette.	Central City and Citywide Tree Plan	
		Vegetative Barrier Expansion	Install vegetative barriers and plant drought-tolerant vegetative barriers. Conduct a study to determine priority pollution-burdened areas of Bakersfield that may benefit most from vegetative barriers and plant drought-tolerant vegetative barriers.		

Category	Opportunity Area	Measure	Measure Description	Measure Source (If Applicable)	Comments or Suggested Revisions
Workforce and Economy	Workforce Development	Expand Education and Certification Opportunities	Support increased access to and increased capacity of education and certification programs that provide opportunities in construction trades, and green energy and infrastructure occupations.		
		Community-Based Organization Partnerships	Establish partnerships with CBOs to increase access to workforce training programs for underserved groups.		

Attachment M

SOAR Bakersfield Public Draft Input
Received