



Western Riverside Council of Governments Technical Advisory Committee

AGENDA

**Thursday, November 21, 2024
9:30 AM**

**Western Riverside Council of Governments
3390 University Avenue, Suite 200
Riverside, CA 92501**

Remote Meeting Locations:

**City of Beaumont
Beaumont Civic Center
550 East 6th Street, Map Room
Beaumont, CA 92223**

**City of Calimesa
Senior Center Map Room
908 Park Avenue
Calimesa, CA 92230**

**City of Corona
City Hall, Conference Room CH 3503
400 South Vicentia Avenue
Corona, CA 92882**

**City of Lake Elsinore
City Hall, City Manager's Office
130 S. Main Street
Lake Elsinore, CA 92530**

**City of Murrieta
1 Town Square, Conference Room 2C
Murrieta, CA 92562**

**City of Temecula
City Hall, City Manager's Office
41000 Main Street**

Temecula, CA 92590

City of Wildomar
City Hall
23873 Clinton Keith Road, Suite 201
Wildomar, CA 92595

March Air Reserve Base
14205 Meridian Parkway, Ste. 140
Meridian Conference Room
Riverside, CA 92518

3593 Eastfield Court
Carmel, CA 93923

Committee members are asked to attend this meeting in person unless remote accommodations have previously been requested and noted on the agenda. The below Zoom link is provided for the convenience of members of the public, presenters, and support staff.

[Public Zoom Link](#)

Meeting ID: 830 2424 7628

Passcode: 830814

Dial in: 669 444 9171 U.S.

In compliance with the Americans with Disabilities Act and Government Code Section 54954.2, if special assistance is needed to participate in the Technical Advisory Committee meeting, please contact WRCOG at (951) 405-6706. Notification of at least 48 hours prior to meeting time will assist staff in assuring that reasonable arrangements can be made to provide accessibility at the meeting. In compliance with Government Code Section 54957.5, agenda materials distributed within 72 hours prior to the meeting which are public records relating to an open session agenda item will be available for inspection by members of the public prior to the meeting at 3390 University Avenue, Suite 200, Riverside, CA, 92501.

In addition to commenting at the Committee meeting, members of the public may also submit written comments before or during the meeting, prior to the close of public comment to lfelix@wrcog.us.

Any member of the public requiring a reasonable accommodation to participate in this meeting in light of this announcement shall contact Lucy Felix at least 72 hours prior to the meeting at (951) 405-6706 or lfelix@wrcog.us. Later requests will be accommodated to the extent feasible.

The Committee may take any action on any item listed on the agenda, regardless of the Requested Action.

1. **CALL TO ORDER (Clara Miramontes, Chair)**
2. **PLEDGE OF ALLEGIANCE**

3. ROLL CALL

4. PUBLIC COMMENTS

At this time members of the public can address the Committee regarding any items within the subject matter jurisdiction of the Committee that are not separately listed on this agenda. Members of the public will have an opportunity to speak on agenda items at the time the item is called for discussion. No action may be taken on items not listed on the agenda unless authorized by law. Whenever possible, lengthy testimony should be presented to the Committee in writing and only pertinent points presented orally.

5. CONSENT CALENDAR

All items listed under the Consent Calendar are considered to be routine and may be enacted by one motion. Prior to the motion to consider any action by the Committee, any public comments on any of the Consent Items will be heard. There will be no separate action unless members of the Committee request specific items be removed from the Consent Calendar.

A. Action Minutes from the September 19, 2024, Technical Advisory Committee Meeting

Requested Action(s): 1. Approve the Action Minutes from the September 19, 2024, Technical Advisory Committee meeting.

6. REPORTS / DISCUSSION

A. Energy Resilience Plan 2.0 Activities Update

Requested Action(s): 1. Receive and file.

B. Emerging Mobility Innovations

Requested Action(s): 1. Receive and file.

C. The Use of Artificial Intelligence in Local Government: City of Corona Case Study

Requested Action(s): 1. Receive and file.

D. Update on Climate Action Plan for Transportation Infrastructure (CAPTI)

Requested Action(s): 1. Receive and file

7. REPORT FROM THE EXECUTIVE DIRECTOR

Dr. Kurt Willson

8. ITEMS FOR FUTURE AGENDAS

Members are invited to suggest additional items to be brought forward for discussion at future Committee meetings.

9. GENERAL ANNOUNCEMENTS

Members are invited to announce items / activities which may be of general interest to the Committee.

10. NEXT MEETING

The next Technical Advisory Committee meeting is scheduled for Thursday, January 16, 2025, at 9:30 a.m., in WRCOG's office at 3390 University Avenue, Suite 200, Riverside.

11. ADJOURNMENT

Technical Advisory Committee

Action Minutes

1. CALL TO ORDER

The meeting of the Technical Advisory Committee was called to order by Chair Clara Miramontes at 9:31 a.m. on September 19, 2024, in WRCOG's office.

2. PLEDGE OF ALLEGIANCE

Chair Miramontes led the Committee members and guests in the Pledge of Allegiance.

3. ROLL CALL

- City of Beaumont - Elizabeth Gibbs
- City of Calimesa - Will Kolbow
- City of Canyon Lake - Arron Brown
- City of Corona - Bret Channing
- City of Eastvale - Mark Orme
- City of Hemet - Noah Rau
- City of Jurupa Valley - Rod Butler
- City of Lake Elsinore - Jason Simpson
- City of Menifee - Armando Villa
- City of Moreno Valley - Sean Kelleher
- City of Murrieta - Kristen Crane
- City of Norco - Liset Free
- City of Perris - Clara Miramontes
- City of San Jacinto - Travis Randel
- City of Temecula - Betsy Lowrey
- Eastern Municipal Water District (EMWD) - Jolene Walsh
- Western Water - Tim Barr
- March JPA - Dr. Grace Martin

* Arrived after Roll Call

Absent:

- City of Banning
- City of Riverside
- City of Wildomar
- County of Riverside
- Riverside County Office of Education

4. PUBLIC COMMENTS

There were no public comments.

5. CONSENT CALENDAR

ACTION:	APPROVED AS RECOMMENDED
MOVER:	Jurupa Valley
SECONDER:	Eastvale
AYES:	Beaumont, Calimesa, Canyon Lake, Corona, Eastvale, Hemet, Jurupa Valley, Lake Elsinore, Moreno Valley, Murrieta, Norco, Perris, San Jacinto, EMWD, Western Water, March JPA

A. Action Minutes from the August 15, 2024, Technical Advisory Committee Meeting

Action:

1. Approved the Action Minutes from the August 15, 2024, Technical Advisory Committee meeting.

6. REPORTS / DISCUSSION

A. Love Your Neighborhood Program Activities Update

Action:

1. Received and filed.

B. Member Dues Exploration Activities Update

ACTION:	APPROVED AS RECOMMENDED
MOVER:	
SECONDER:	Jurupa Valley
AYES:	Beaumont, Calimesa, Canyon Lake, Corona, Eastvale, Hemet, Jurupa Valley, Lake Elsinore, Menifee, Moreno Valley, Murrieta, Norco, Perris, San Jacinto, Temecula, EMWD, Western Water, March JPA

Action:

1. Recommended that the Executive Committee adjust member dues based on Local January-to-January CPI starting from the 2008 total member dues of \$345,480 through present, and adjust member dues annually based on Local January-to-January CPI.

7. REPORT FROM THE EXECUTIVE DIRECTOR

Deputy Executive Director Chris Gray hopes to see Committee members at the ICMA conference. Mr. Gray will be attending, along with WRCOG Executive Director, Dr. Kurt Wilson, and WRCOG CFO, Andrew Ruiz. There will not be a TAC meeting in October, but the November agenda will have topics such as AI and cybersecurity.

8. ITEMS FOR FUTURE AGENDAS

There were no items for future agendas.

9. GENERAL ANNOUNCEMENTS

There were no general announcements.

10. NEXT MEETING

The next Technical Advisory Committee meeting is scheduled for Thursday, November 21, 2024, at 9:30 a.m., in WRCOG's office at 3390 University Avenue, Suite 200, Riverside.

11. ADJOURNMENT

The meeting was adjourned at 10:21 a.m.



Western Riverside Council of Governments Technical Advisory Committee

Staff Report

Subject: Energy Resilience Plan 2.0 Activities Update
Contact: Daniel Soltero, Program Manager, dsoltero@wrcog.us, (951) 405-6738
Date: November 21, 2024

Recommended Action(s):

1. Receive and file.

Summary:

To enhance infrastructure and assist communities with emergency events and outages, WRCOG is developing the Energy Resilience Plan (ERP) 2.0 to explore the feasibility of microgrids at key facilities and community resilience centers. Over the last year, staff have worked with member agencies to identify potential sites for feasibility studies, and identify the various factors that will help prioritize the sites with the most need for resilience improvements.

Purpose / WRCOG 2022-2027 Strategic Plan Goal:

The purpose of this item is to provide updates regarding candidate sites that could be considered for the ERP 2.0 feasibility studies, workshop updates, the recent Request for Proposals, and upcoming workshops. This item aligns with WRCOG's 2022-2027 Strategic Plan Goal #5 (Develop projects and programs that improve infrastructure and sustainable development in our subregion).

Discussion:

Background

In 2023, WRCOG was awarded an Adaptation Planning Grant through the Integrated Climate Adaptation and Resiliency Program administered by the Governor's Office of Land Use and Climate Innovation (LCI), formerly Office of Planning & Research (OPR). The \$471,000 grant is active through January 2026, and will fund development of the WRCOG Energy Resilience Plan 2.0.

The ERP 2.0 will assist member agencies with improving facility and community resilience towards emergencies and power outages by providing feasibility studies for microgrids and resilience centers. A microgrid is defined by the California Public Utilities Code as an interconnected, self-sufficient energy system within a clearly defined electrical boundary that can act as a single, controllable entity. Microgrids can connect to, disconnect from, or run in parallel to larger portions of the electric grid, and can be managed and isolated to withstand larger disturbances and maintain electrical supply to

connected critical infrastructure. A microgrid provides energy resilience by disconnecting from the larger electric grid during outages and providing power to buildings or multiple customers within the boundary of the microgrid, leveraging energy resources such as solar panels, batteries, generators, etc.

A community resilience center is defined by the California Strategic Growth Council as a neighborhood-level building with comprehensive building and infrastructure upgrades that provides shelter and resources during climate and other emergencies, as well as year-round services and programming that strengthen community connections and the ability to withstand disasters. The ERP 2.0 will identify existing agency-owned sites that can undergo a microgrid feasibility study, and dependent on the building type, the study can be upgraded to a community resilience center feasibility study.

Present Situation

In February 2024, WRCOG staff sent a request to member agency staff asking them to submit details, including potential sites that could benefit from a microgrid or serve as a community resilience center. Staff then analyzed the sites against known climate hazards and social vulnerabilities for the site's surrounding areas and populations served. Member agencies that participated in the initial ERP were asked to confirm, add, or remove sites from the list that was collected in 2021, and members that did not participate were asked to provide a list and details for each site to be considered for the feasibility studies. To date, 98 sites have been submitted for consideration for the ERP 2.0 (see Attachment 1).

Currently, staff are working on the second round of surveys which are gathering information on energy needs, energy infrastructure, equipment details, and availability of building plans and drawings for each candidate facility. As the second round of surveys are completed, WRCOG staff will coordinate with each member agency to finalize the site selection for one site that will go forward for a microgrid and/or resilience center feasibility study.

A virtual workshop was held in August 2024 to inform member agency staff on the progress of the ERP 2.0, define microgrids and community resilience centers, and seek participants for the ERP Advisory Group (see Attachment 2). The Advisory Group's role is to provide feedback and input on the various strategies and decisions that will be taken throughout development of the ERP 2.0. Staff also hosted a goals and objectives setting exercise which produced an updated list informed by workshop attendees (see Attachment 3). Finally, staff also provided information on the Request for Proposals (RFP) to solicit qualified consultants to conduct the microgrid and resilience center feasibility studies.

In November 2024, staff released an RFP seeking a consultant to conduct up to 21 microgrid feasibility studies, of which nine will be upgraded to a community resilience center study. The RFP will ask consultants to prepare a funding memo, identifying various types of funding for proposed projects and an implementation strategy to identify the steps necessary for member agencies to implement a microgrid or community resilience center. Overall, the consultant will be expected to work closely with member agency staff, and as such, member agency staff will be invited to participate in the RFP process to review bids, conduct interviews, and assist in recommending an award to a bidder. Staff will seek approval of the Executive Committee to award a contract to the bidder resulting from this RFP at a future Executive Committee meeting.

Staff are planning a second workshop with member agencies to present the findings of the full analysis of candidate sites and to finalize site selections. While staff are currently planning the workshop to take place in November or December 2024, the scheduling of the workshop will be dependent on all member

agencies' responses to the surveys, and the selection of sites for the feasibility studies. This workshop will help inform all participants of the types of sites that will be studied and provide information on the community workshops that are required by the grant. The community workshops will be applicable to the feasibility studies for resilience centers, since resilience centers typically provide year-round programming and training to improve community resilience, such as community emergency response team training, first aid trainings, and seminars on dealing with extreme heat. WRCOG staff plan to work closely with member agencies that select a community resilience center feasibility study and the community workshops that take place in their jurisdictions.

Prior Action(s):

August 7, 2023: The Executive Committee 1) accepted the ICARP Adaptation Planning Grant award; 2) authorized the Executive Director to execute the Grant Agreement, substantially as to form and subject to legal counsel's review and approval, with the Governor's Office of Planning and Research; and 3) authorized the Executive Director to execute the Partnership Agreement, substantially as to form and subject to legal counsel's review and approval, with GRID Alternatives Inland Empire.

Financial Summary:

Activities related to the Energy Resilience Plan 2.0 are included in the Fiscal Year 2024/2025 Budget under Program code 2250 in the General Fund (110).

Attachment(s):

[Attachment 1 - Candidate sites](#)

[Attachment 2 - Workshop #1 presentation slides](#)

[Attachment 3 - Goals and objectives](#)

Attachment

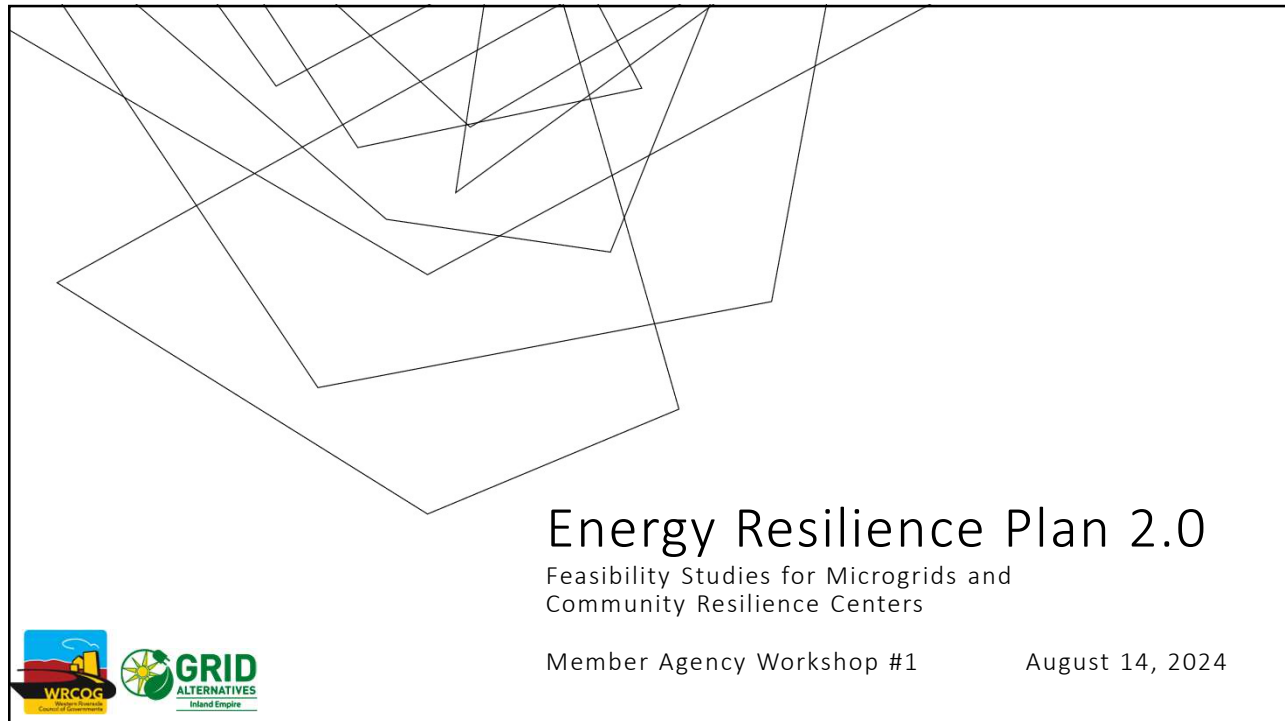
WRCOG ERP 2.0 – Candidate Sites

Member Agency	Site Name	Building Type	Type of Study
Banning	Banning National Guard Armory	Community/Recreation Center	Community Resilience Center
Beaumont	Beaumont Senior Center	Community/Recreation Center	Community Resilience Center
Beaumont	Beaumont Police Station	Public Safety	Microgrid
Beaumont	Beaumont Fire Station	Public Safety	Microgrid
Beaumont	Beaumont Wastewater Treatment Plant	Water/Wastewater	Microgrid
Beaumont	Beaumont Mesa Lift Station	Water/Wastewater	Microgrid
Beaumont	Beaumont Upper Oak Valley Lift Station	Water/Wastewater	Microgrid
Beaumont	Beaumont Lower Oak Valley Lift Station	Water/Wastewater	Microgrid
Beaumont	Beaumont Four Seasons Lift Station	Water/Wastewater	Microgrid
Beaumont	Beaumont Noble Creek Lift Station	Water/Wastewater	Microgrid
Beaumont	Beaumont Marshall Creek Lift Station	Water/Wastewater	Microgrid
Beaumont	Beaumont - San Timoteo Repeater	Telecommunications	Microgrid
Beaumont	Beaumont - Seneca Springs Lift Station	Water/Wastewater	Microgrid
Beaumont	Beaumont - Fairway Canyon Lift Station	Water/Wastewater	Microgrid
Corona	Corona - Lester Water Treatment Plant	Water/Wastewater	Microgrid
Corona	Corona - Chase Booster Pump Station	Water/Wastewater	Microgrid
County of Riverside	Riverside County Administrative Center	City Hall/Government Administration	Microgrid
County of Riverside	Riverside County RUHS Behavioral Health Campus	Hospital/Medical Facility	Microgrid
County of Riverside	Riverside County Western Emergency Ops Center	Operations Center/Emergency Operations Center	Microgrid
County of Riverside	Riverside County RUHS Medical Center	Hospital/Medical Facility	Microgrid
County of Riverside	Riverside County - Perris Sheriff's Station	Public Safety	Microgrid
County of Riverside	Riverside County - Lakeland Village Community Ctr	Community/Recreation Center	Community Resilience Center
County of Riverside	Riverside County - Mead Valley Community Ctr	Community/Recreation Center	Community Resilience Center
County of Riverside	Riverside County - Good Hope Community Center	Community/Recreation Center	Community Resilience Center
Eastvale	Eastvale - Riverside County Fire Station 27	Public Safety	Microgrid
Eastvale	Eastvale - Riverside County Fire Station 31	Public Safety	Microgrid
Hemet	Hemet Fire Administration	Public Safety	Microgrid
Hemet	Hemet Public Library	Library	Community Resilience Center
Hemet	Hemet Simpson Center	Community/Recreation Center	Community Resilience Center
Jurupa Valley	Jurupa Valley City Hall	City Hall/Government Administration	Microgrid
Jurupa Valley	Jurupa Valley Operations Center/Fleet Maint.	Operations Center/Emergency Operations Center	Microgrid
Jurupa Valley	Jurupa Valley - Eddie D Smith Senior Center	Community/Recreation Center	Community Resilience Center
Jurupa Valley	Jurupa Valley/Riverside County Fire Station 16	Public Safety	Microgrid
Jurupa Valley	Jurupa Valley/Riverside County Fire Station 17	Public Safety	Microgrid
Jurupa Valley	Jurupa Valley/Sheriffs Station	Public Safety	Microgrid
Jurupa Valley	Jurupa Valley/Riverside County Fire Station 38	Public Safety	Microgrid
Jurupa Valley	Jurupa Valley/Riverside County Fire Station 18	Public Safety	Microgrid
Lake Elsinore	Lake Elsinore City Hall	City Hall/Government Administration	Microgrid
Lake Elsinore	Lake Elsinore Public Works Administration & EOC	Emergency Operations Center	Microgrid
Lake Elsinore	Lake Elsinore - Lake Community Center	Community/Recreation Center	Community Resilience Center
Lake Elsinore	Launch Point Resort	Fairground/Event Center	Community Resilience Center
Menifee	Menifee City Hall	City Hall/Government Administration	Microgrid
Menifee	Menifee Kay Cenicerros Senior Center	Community/Recreation Center	Community Resilience Center
Menifee	Menifee Maintenance & Operations Center	Operations Center/Emergency Operations Center	Microgrid
Menifee	Menifee/Riverside County Fire Station 68	Public Safety	Microgrid
Menifee	Menifee Lazy Creek Recreational Center	Community/Recreation Center	Community Resilience Center
Moreno Valley	Moreno Valley Annex I	City Hall/Government Administration	Microgrid
Moreno Valley	Moreno Valley City Hall	City Hall/Government Administration	Microgrid
Moreno Valley	Moreno Valley Conference & Recreation Center	Community/Recreation Center	Community Resilience Center
Moreno Valley	Moreno Valley Emergency Operations Center	Operations Center/Emergency Operations Center	Microgrid
Moreno Valley	Moreno Valley Public Library	Library	Community Resilience Center
Moreno Valley	Moreno Valley Public Safety Building / PD	Public Safety	Microgrid
Moreno Valley	Moreno Valley Senior Center	Community/Recreation Center	Community Resilience Center
Murrieta	Murrieta Fire Station #5	Public Safety	Microgrid

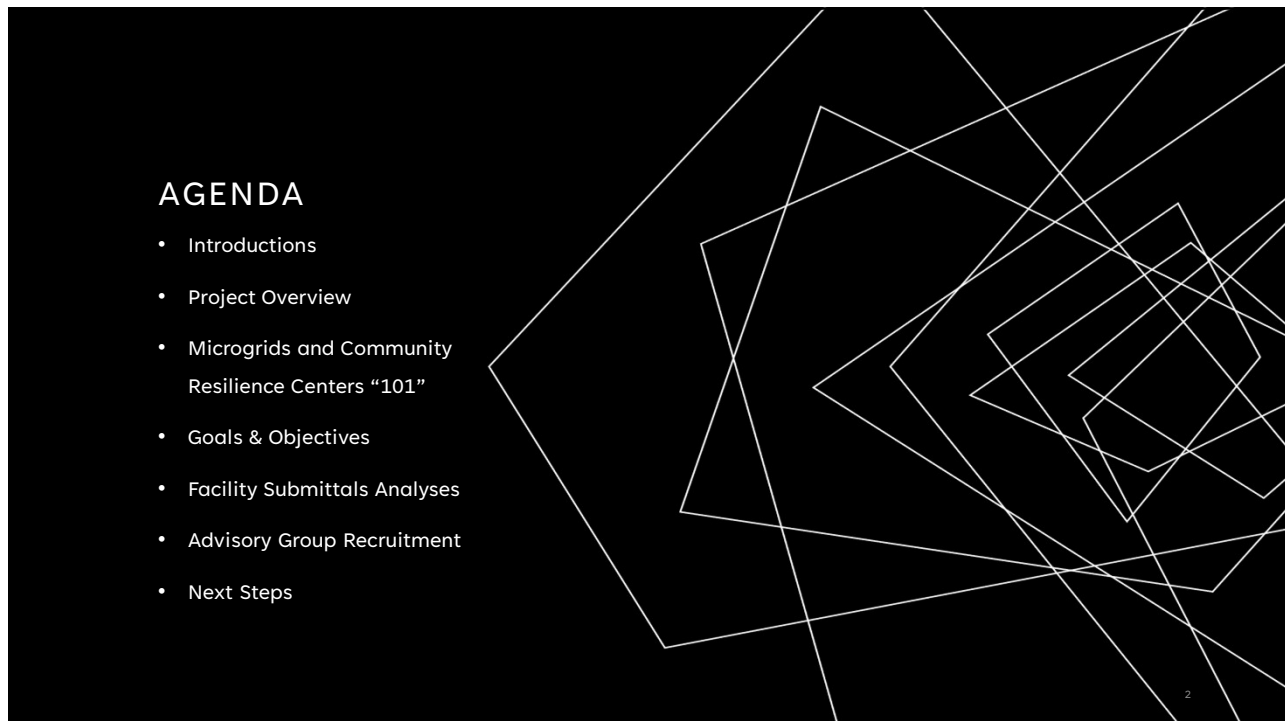
Member Agency	Site Name	Building Type	Type of Study
Murrieta	Murrieta Fire Station #2	Public Safety	Microgrid
Murrieta	Murrieta Fire Station #1	Public Safety	Microgrid
Murrieta	Murrieta Fire Station #3	Public Safety	Microgrid
Murrieta	Murrieta Fire Station #4	Public Safety	Microgrid
Murrieta	Murrieta Senior Center	Community/Recreation Center	Community Resilience Center
Murrieta	Murrieta Community Center	Community/Recreation Center	Community Resilience Center
Murrieta	Murrieta Police Department	Public Safety	Microgrid
Murrieta	Murrieta Youth Center	Community/Recreation Center	Community Resilience Center
Norco	Norco City Hall & Sheriff's Substation	Public Safety	Microgrid
Norco	Riverside County Fire Station 47	Public Safety	Microgrid
Norco	Riverside County Fire Station 57	Public Safety	Microgrid
Norco	Norco Community Center	Community/Recreation Center	Community Resilience Center
Norco	Norco Senior Center	Community/Recreation Center	Community Resilience Center
Norco	Norco Public Works Maintenance Yard	Operations Center/Emergency Operations Center	Microgrid
Norco	Norco Facilities & Maintenance Building	City Hall/Government Administration	Microgrid
Norco	Norco - George Ingalls Equestrian Event Center	Fairground/Event Center	Community Resilience Center
Norco	Norco Animal Shelter	Animal Services	Microgrid
Norco	Norco - Riley Gymnasium	Community/Recreation Center	Community Resilience Center
Perris	Perris - Cesar Chavez Library	Library	Community Resilience Center
Perris	Riverside County Fire Station 90	Public Safety	Microgrid
Perris	Riverside County Fire Station 101	Public Safety	Microgrid
Perris	Perris Emergency Operations Center	Operations Center/Emergency Operations Center	Microgrid
Perris	Perris Senior Center	Community/Recreation Center	Community Resilience Center
Perris	Perris City Hall	City Hall/Government Administration	Microgrid
Perris	Perris - Bob Glass Gym	Community/Recreation Center	Community Resilience Center
Perris	Perris Public Works	City Hall/Government Administration	Microgrid
Perris	Perris City Council Chambers	City Hall/Government Administration	Community Resilience Center
Riverside	Riverside ""Atherton"" Sewer Lift Station	Water/Wastewater	Microgrid
Riverside	Riverside Janet Goeske Senior Center	Community/Recreation Center	Community Resilience Center
Riverside	Riverside Utility Operations Center	Operations Center/Emergency Operations Center	Microgrid
Riverside	Riverside Utilities Operations Center #2	Operations Center/Emergency Operations Center	Microgrid
Temecula	Temecula/Riverside County Fire Station 12	Public Safety	Microgrid
Temecula	Temecula Facility Operations Center	Operations Center/Emergency Operations Center	Microgrid
Temecula	Temecula Mary Phillips Senior Center	Community/Recreation Center	Community Resilience Center
Temecula	Temecula City Hall	City Hall/Government Administration	Microgrid
Temecula	Temecula Community Recreational Center	Community/Recreation Center	Community Resilience Center
Wildomar	Wildomar/Riverside County Fire Station 61	Public Safety	Microgrid
Wildomar	Wildomar City Hall	City Hall/Government Administration	Microgrid

Attachment

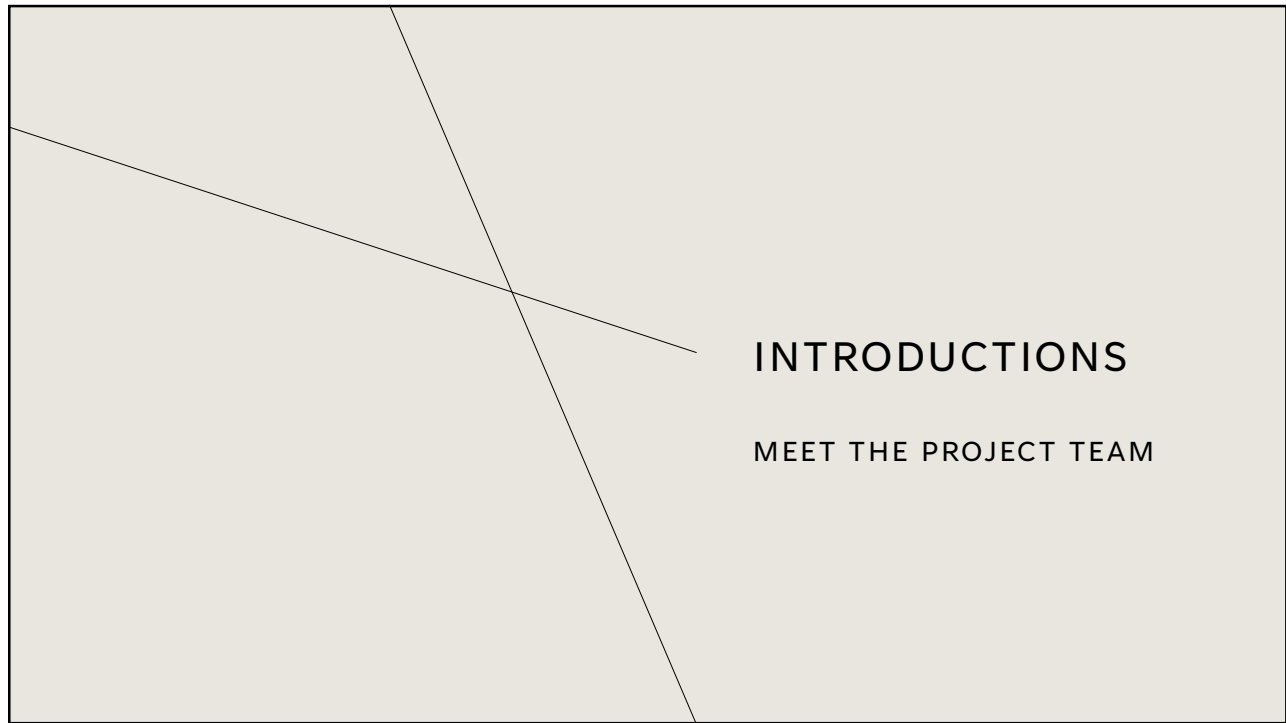
WRCOG ERP 2.0 - Member Agency
Workshop #1 Presentation Slides



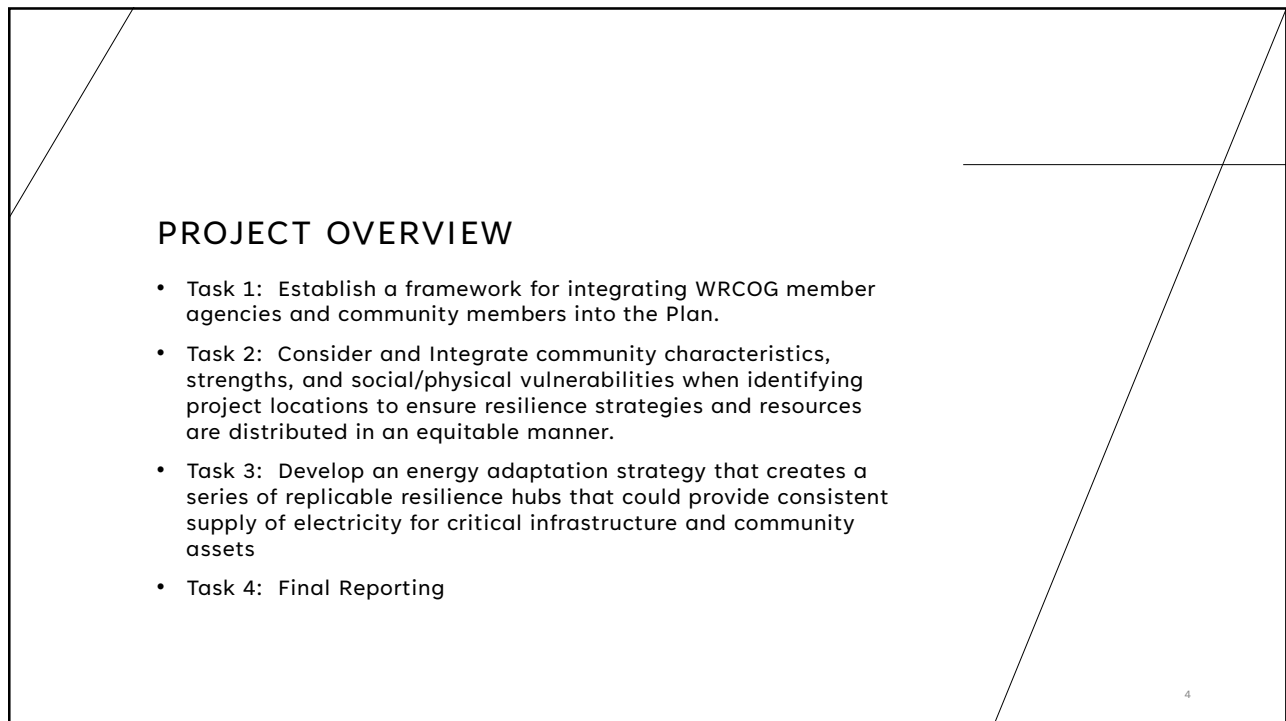
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TASK 1: **ESTABLISH A FRAMEWORK FOR INTEGRATING WRCOG MEMBER AGENCIES AND COMMUNITY MEMBERS INTO THE PLAN.**

Completed:

- Develop and Execute Agreement with Grid Alternatives Inland Empire

In Progress:

- Develop a Marketing, Outreach, and Engagement Plan
- Solicit qualified consultants to conduct feasibility studies across the subregion
- Member agency engagement and preliminary site list
- Goals and objectives

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Community & Member Agency Engagement

- **Purpose:** To gather input from Riverside County's community members in regard to climate and power outage impacts that they experience. We expect to identify which communities are already prepared with a community resilience center, which communities could benefit from one, and which municipalities are interested in microgrids for critical facilities. We hope to at least cover all baseline activities for each participating community by the end of 2025.
- **Engagement Methods:**
 - In-person workshops with paper form surveys and a QR code option.
 - Virtual meetings with an online survey and postup activity.
 - Q&A's in all meetings and workshops.
 - Mailers with surveys included and workshop dates.
 - Unique engagement methods will be provided for each city for necessary follow-ups.

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In-Person and Virtual Workshops

Example Agenda

1. Check In/Snacks (10-20 Minutes)
2. Define goals, reasoning and data, ground rules (15-20 Minutes)
3. Activities:
 - a. Survey questions and story sharing (Miro for Virtual) (30-40 Minutes)
 - b. BREAK (10 Minutes)
 - c. Continue questions and story sharing (30-40 Minutes)
4. Follow up with plan and current assistance we can provide for unique city



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Marketing at tabling events

1. Postup Boards Activity
2. Board with facts, goals, and purpose
3. Sign in sheet for those that want to participate in future workshops
4. Ability to speak with someone about their experience/opinions



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Accommodations & Data Collection

Accommodations:

- Separate English and Spanish workshops
- Timeframes that work with working communities and varying dates
- Suggested bus routes

Data Collection:

- Survey paper/online
- Note taking from team
- Postup notes and Miro



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MEMBER AGENCY ENGAGEMENT

- Staff to coordinate with member agencies and advisory group throughout development of the Plan
- Host member agency workshops
- Seek detailed information on facilities
- Gather feedback on analysis methods
- Receive input on facility prioritization and selection for feasibility studies

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WRCOG REQUEST FOR PROPOSALS

Seeking a technical consultant to conduct feasibility analyses:

- Review facility submittals, drawings, and plans
- Site review (in-person and virtual)
- Develop facility energy models
- Renewable generation & storage sizing
- Identify requirements for CRC's
- Identify programmatic services and resources for CRC's

Anticipated release date late August / early September

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UPCOMING TASKS

TASK 2:

- Literature review and regulatory memo
- Marketing to member agencies and communities
- Community events and workshops
- Surveys
- Site selection

TASK 3:

- Develop feasibility studies
- Develop a funding memo
- Develop an implementation plan

TASK 4:

- Present and deliver final report to OPR, WRCOG Committees & member agencies

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WHY PLAN FOR ENERGY RESILIENCE?

- [Resilient IE](#) and CAPtivate identified vulnerabilities in our subregion's energy supply
- Increased incidences of extreme heat, wildfire, high wind events, and severe weather, which can result in power outages
- Multiple socioeconomic vulnerabilities
- Inland Empire is expected to see the largest increases in energy consumption (30%-35%) due to future growth and intensity of extreme heat events
- Availability of funding for implementing microgrids and community resilience centers
- Projects identified by the ERP 2.0 will be supported by the IREN technical assistance and project development services

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IMPACTS ON THE ELECTRIC GRID

- Localized equipment failure – transformer, switch gear
- Overheating of transmission lines – heat related impeded electric flow, sag, etc.
- Equipment failure or transmission loss due to wildfire
- Increasing electricity demand – building decarbonization, EVs
- Rolling blackouts due to insufficient capacity (2-4 hours)
- Public Safety Power Shut Offs (up to 48 hours)
- Seismic, fire, or other extreme event (72 hours or more)

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WHAT ARE MICROGRIDS?

- Defined by the California Public Utilities Code as an interconnected, self-sufficient energy system within a clearly defined electrical boundary that can act as a single, controllable entity.

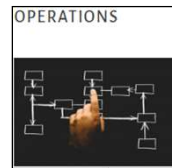
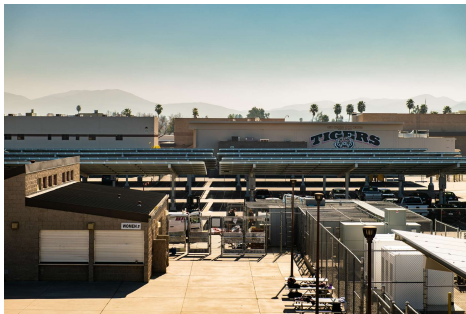


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WHAT ARE COMMUNITY RESILIENCE CENTERS?

- Defined by California Strategic Growth Council as a neighborhood-level resilience center to provide shelter and resources during climate and other emergencies, as well as year-round services and programming that strengthen community connections and ability to withstand disasters



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LEARN MORE ABOUT MICROGRIDS AND CRC'S

Microgrids:

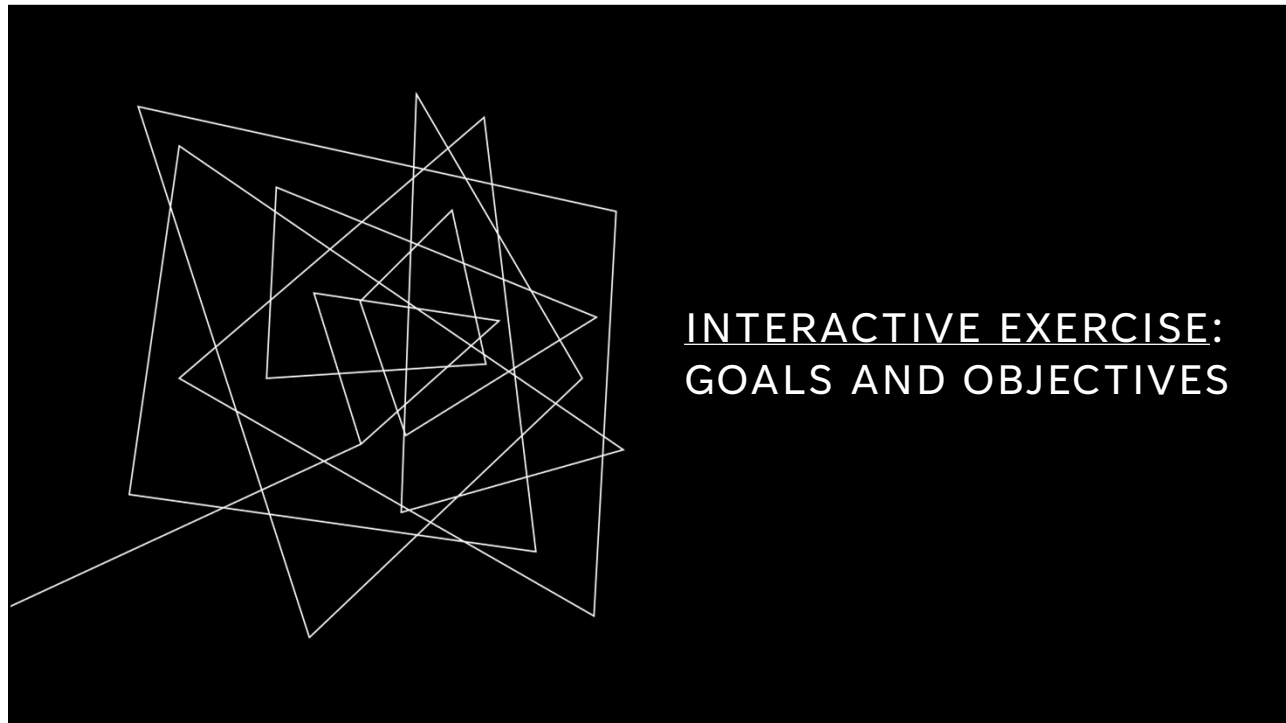
- [Microgrids; National Renewable Energy Lab](#)
- [What is a microgrid?; Microgrid Knowledge](#)
- [Microgrids; Center for Climate & Energy Solutions](#)
- [SCE Microgrid Incentive Program](#)
- [California Microgrid To Demonstrate that Hospitals Don't Need Diesel Generators; Microgrid Knowledge](#)

Community Resilience Centers:

- [A living breathing building, the rise of resilience centers amid extreme heat in the US; The Guardian](#)
- [Vulnerable Communities to Receive \\$98.6M in Grants to Build Climate Resiliency; Strategic Growth Council](#)
- [Resilience Hubs; Urban Sustainability Directors Network](#)

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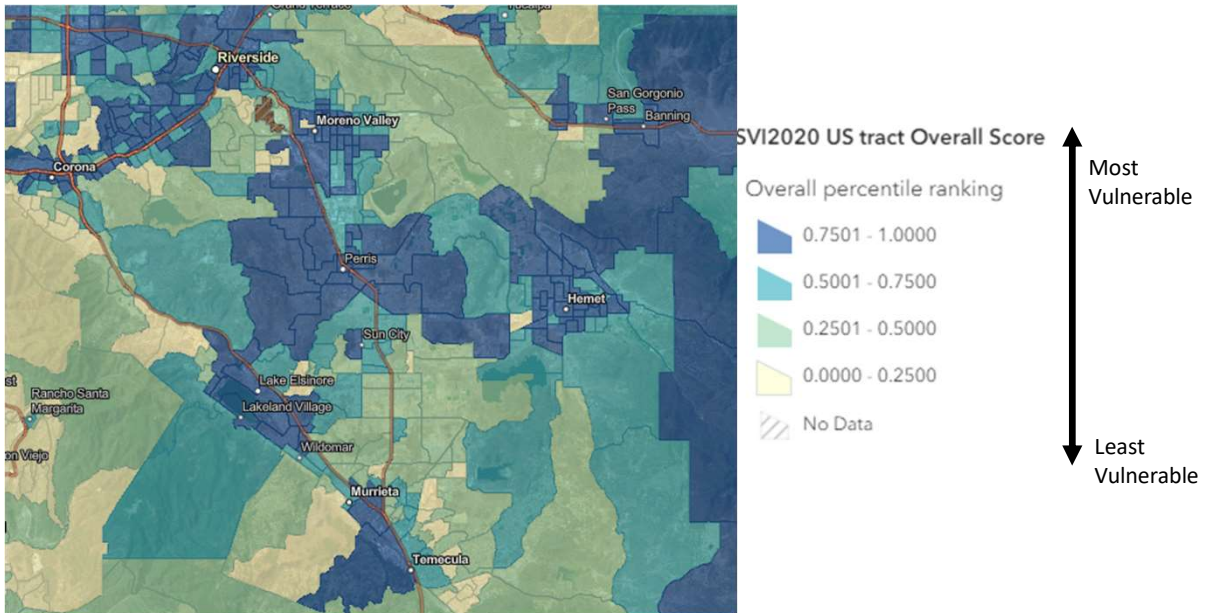
FACILITY LIST REQUESTS

- Staff sent a request to all member agencies seeking candidate facilities
- Staff will be holding virtual meetings with members
- Using GIS to assess vulnerabilities and hazards
- Toolkit asks for:
 1. Facility details
 2. Climate and Social vulnerabilities
 3. Critical energy needs
 4. Existing infrastructure
- Toolkit provides preliminary strategies for resilience

21

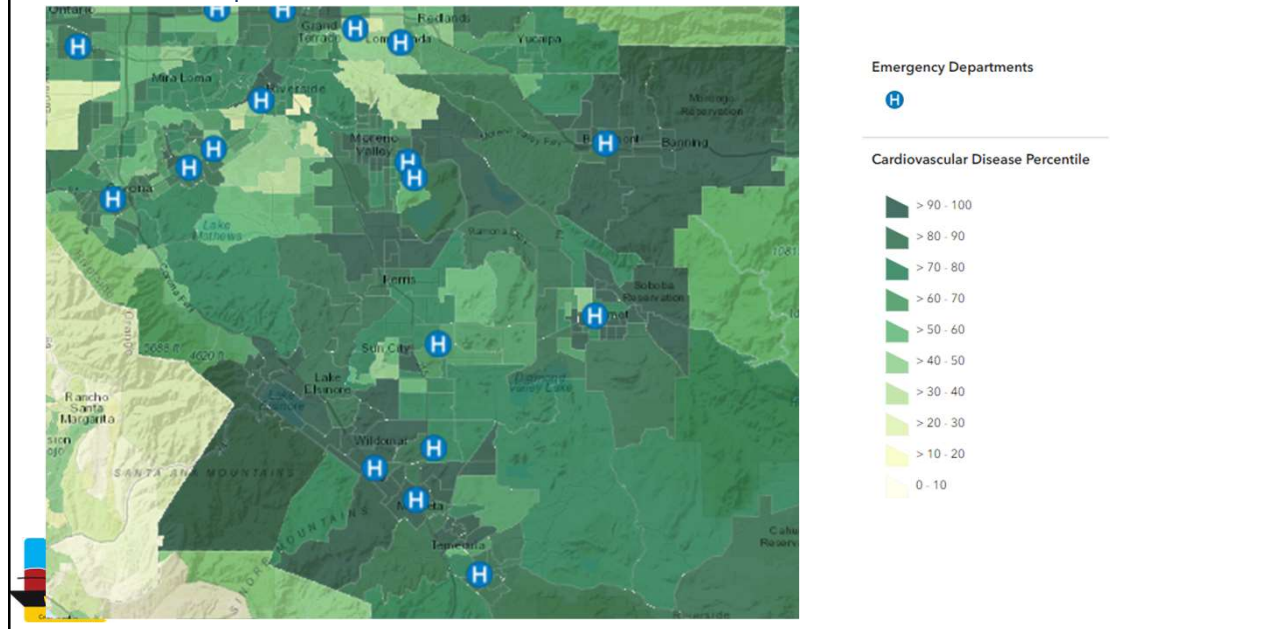
21

Social Vulnerability Index



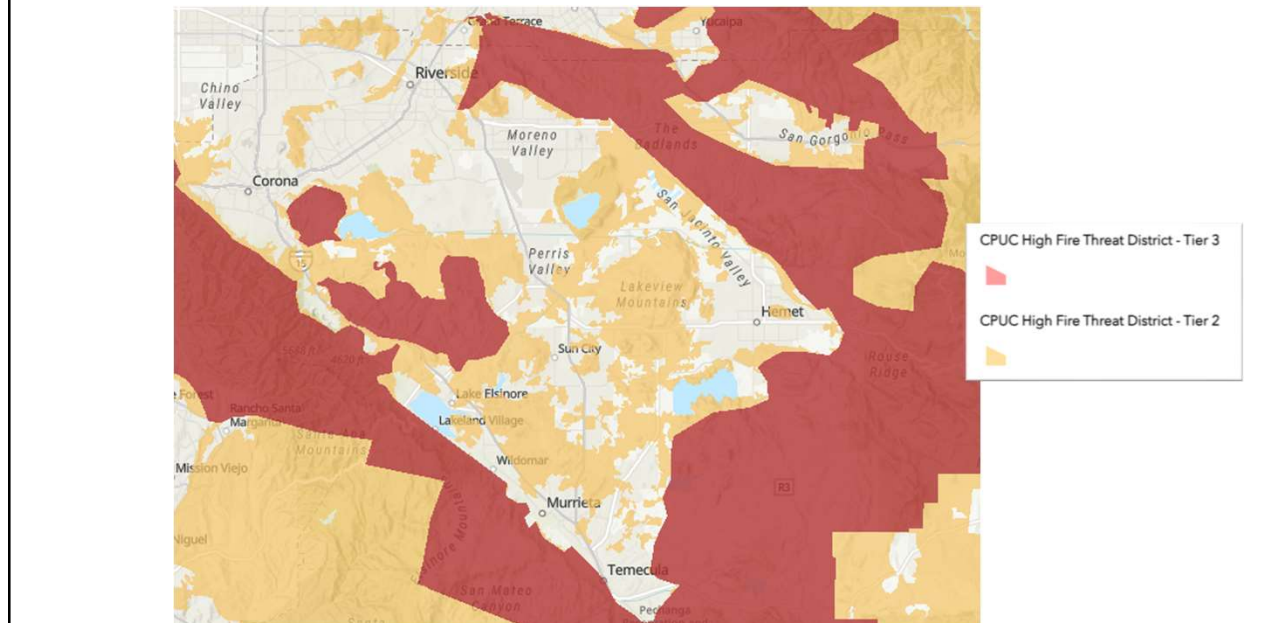
22

Health Disparities: Cardiovascular Disease



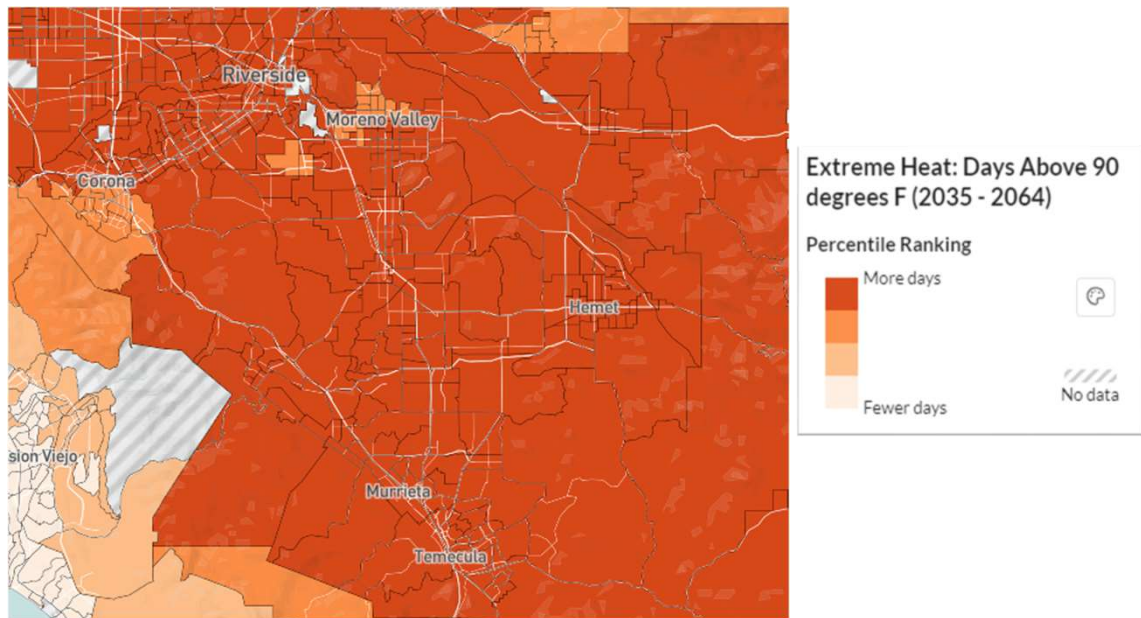
23

CPUC Fire Threat Map



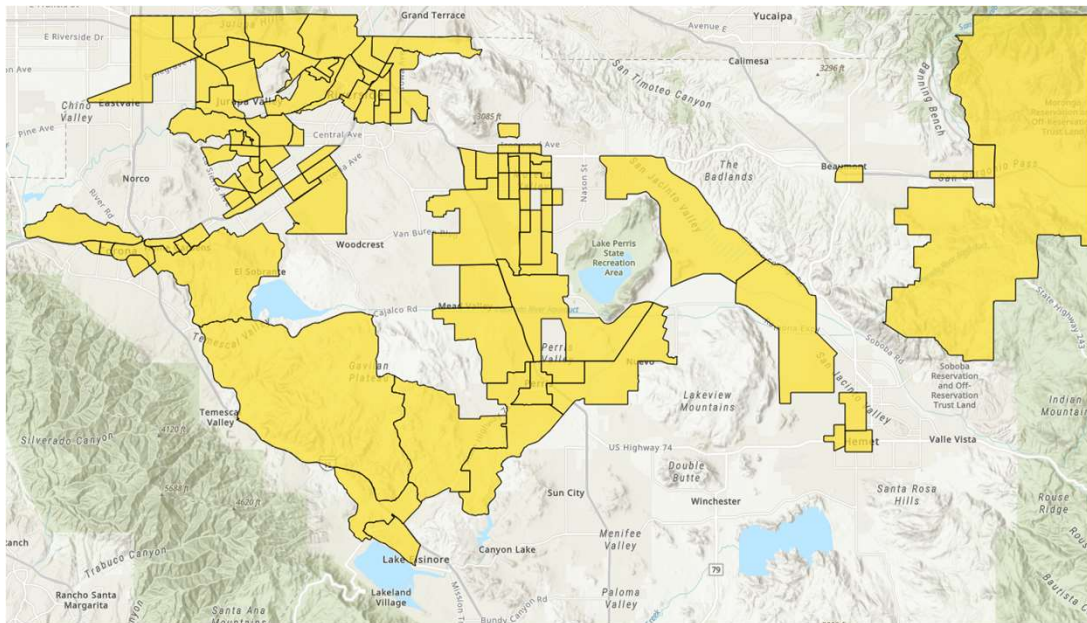
24

California Healthy Places Index: Extreme Heat Edition



25

SB 535 Disadvantaged Communities



26

ADVISORY GROUP RECRUITMENT

29

NEXT STEPS

- Staff to request meetings with member agencies to gather final details for sites
- Staff to release RFP and go through public procurement process
- Advisory Group or other member agencies are welcomed to assist with reviewing proposals and interviews
- Workshop #2 for Member Agencies in October – December
- Community workshops Winter 2024 – Spring 2025

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THANK YOU

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Attachment

WRCOG ERP 2.0 – Goals & Objectives

WRCOG Energy Resilience Plan

Goals and Objectives

Goal: Consistent access to electricity for all critical public safety community facilities

Objective: Combine solar and storage to provide 72 hours of interrupted electricity supply and provide a roadmap for implementation of microgrids.

Goal: Fundamental health and safety services are available at critical public and private facilities for all members of the community.

Objective: Create a series of resilience hubs that provide lighting, cooling, air filtration, cell phone charging, and refrigeration for medicine, breast milk, etc.

Goal: Resilience resources are distributed in an equitable fashion

Objective: Focus resilience recommendations in areas of existing inequities and disadvantaged communities and be inclusive of Access and Functional Needs populations.

Goal: Community characteristics and underlying social and physical vulnerabilities are fully integrated into the planning process.

Objective: Consider community vulnerabilities, accessibility, and land use issues when identifying the location and distribution of recommended energy resilience investments.

Goal: Result in replicable examples of how energy resilience can be implemented.

Objective: Identify policy issues and regulatory barriers and associated agencies.



Western Riverside Council of Governments Technical Advisory Committee

Staff Report

Subject: Emerging Mobility Innovations
Contact: Paul Martin, PE, TE, Mark Thomas, Senior Project Manager,
pmartin@markthomas.com, (949) 697-7840
Date: November 21, 2024

Recommended Action(s):

1. Receive and file.

Summary:

WRCOG has been working with an engineering and planning firm, Mark Thomas, to prepare a memorandum on Emerging Mobility Options. This memorandum evaluates the impacts of changing demographics, travel patterns, and access to these new mobility options to outline strategies to support their growth and increased use in the WRCOG subregion. An overview of this project and a summary of Mark Thomas' findings will be provided.

Purpose / WRCOG 2022-2027 Strategic Plan Goal:

The purpose of this item is to provide an overview of the emerging transportation technology study. This effort aligns with WRCOG's 2022-2027 Strategic Plan Goal #5 (Develop projects and programs that improve infrastructure and sustainable development in our subregion).

Discussion:

Background

Like many regions across the state and country, the communities in western Riverside County are aging, people are aging in place, and household sizes are decreasing. These and other changes are affecting how these communities look and function. As these demographic trends continue, WRCOG has been exploring opportunities to incorporate emerging mobility options to address challenges and capitalize on opportunities. Emerging mobility options such as micromobility, electric bicycles (e-bikes), golf carts, and low-speed neighborhood electric vehicles (NEVs) can serve local transportation trips and integrate with regional transit to accommodate various daily household transportation needs. In June 2024, Mark Thomas staff presented an initial summary of the project's scope of work to WRCOG's Public Works Committee.

Present Situation

Emerging Mobility Options Summary: The memorandum developed by Mark Thomas evaluates the impacts of changing demographics, travel patterns, and access to new mobility options. New or emerging mobility options include e-bikes, golf carts, NEVs, and micromobility. Included in this evaluation are ideas for increasing the use of e-bikes, NEVs, and micromobility through improvements to transit first / last-mile, network infrastructure and charging infrastructure. Attachment 1 is a summary of strategies and solutions for micromobility, e-bikes and NEVs.

This presentation will highlight Mark Thomas' findings and proposed strategies to enhance the applicability and benefits of these emerging mobility options in the WRCOG subregion.

Prior Action(s):

None.

Financial Summary:

Activities related to this study are included in Transportation and Planning's Fiscal Year 2024/2025 Budget under the Local Transportation Fund (Fund 210).

Attachment(s):

[Attachment 1 - Emerging Mobility Innovations Memo Summary](#)

Emerging Mobility Options Summary

The memorandum developed by Mark Thomas evaluates the impacts of changing demographics, travel patterns, and access to new mobility options. New or emerging mobility options include electric bicycles (e-bikes), golf carts, neighborhood electric vehicles (NEVs), and micromobility. Included in this evaluation are ideas for increasing use of e-bikes, NEVs, and micromobility through improvements to transit first/last-mile, network infrastructure and charging infrastructure.

Micromobility

Micromobility has become a prominent mode of transportation in many U.S. communities that offers a convenient, flexible, and affordable solution for travel, particularly supporting short-distance trips and first- and last-mile gaps in public transit networks. Micromobility provides several benefits to urban areas, including reduced traffic congestion, reduced parking demand, expanded and low-cost mobility options, and lower greenhouse gas (GHG) emissions. A summary of proposed strategies and solutions to support micromobility is provided below.

Topic	Summary of Micromobility Strategies and Solutions
Land Use	Build infrastructure within the transit hubs, residential areas, employment centers, retail centers, and public service destinations such as libraries, malls, museums, and hospitals to best support active transportation and micromobility.
	Develop policies and programs that supports active transportation and micromobility within the identified land use areas of WRCOG member agencies.
Infrastructure	Implement low-stress bikeways within land uses and to destinations that support active transportation and micromobility.
	Consider bicycle racks at targeted locations.
	Consider micromobility lockers at targeted locations.
	Consider demarcated parking areas at targeted locations.
	Consider street parking corrals at targeted locations.
	Consider sidewalk parking along existing and planned sidewalks with adequate width.
Policy	Establish flexible policies that allow for quick adaptation to technological advances and changes in usage patterns.
	Require data sharing from shared micromobility providers to monitor and evaluate service performance, including usage patterns.
	Pass fines directly to users for non-compliance. California Vehicle Code 21235 mandates that all scooter riders in California: • Possess a valid driver's license. • Ride on the road and avoid sidewalks. • May not park scooters on a sidewalk in a position that blocks pedestrian paths • Not ride any other passengers
	Require shared micromobility operators develop equity plans that detail low-income discount plans and programs to increase service accessibility for disadvantaged communities.
Programs	Implement public outreach and education campaigns in communities where the micromobility service is planned or expected to develop community trust and understanding about new mobility options. Educational efforts may include classes organized by the city or service providers, covering topics such as proper device usage and crash prevention.
	Collaborate with local organizations to increase community understanding and awareness on how to access micromobility services.
	Implement permit structures to micromobility providers to ensure compliance with safety, data standards, and equipment requirements.

E-Bikes

E-bikes have become one of the most popular micromobility devices in North America, with the number of trips taken by e-bikes growing by 26% in 2023 compared to 2022 according to the 5th Annual Shared Micromobility State of the Industry Report. E-bikes continue to establish a prominent role in mobility by offering an accessible and sustainable alternative to car travel that reduces financial burdens. A summary of proposed strategies and solutions to support e-bikes is provided below.

Topic	Summary of E-Bike Strategies and Solutions
Land Use	Implement bikeways and supporting infrastructure within transit hubs, residential areas, employment centers, retail centers, and other destinations such as schools, libraries, malls, museums, and hospitals to best support e-bike adoption.
	Develop policies and programs that support e-bike mobility within recommended land use areas.
Infrastructure	Implement low-stress bikeways separated from motor vehicles and provide well-connected networks for e-bikes.
	Implement bicycle crossing improvements like protected intersections and crossbikes.
	Provide bicycle racks throughout the bicycle network and bike corrals and lockers at key community destinations such as transit hubs, schools, and large employment centers.
	Provide lockers, showers, e-bike charging facilities and other end-of-trip amenities to support commute and utilitarian trips.
Policy	Promote and enforce helmet compliance for youth riding e-bikes and all users of Class 3 e-bikes.
	Identify regulations for e-bikes for paths, bikeways, and trails and develop signage to clearly communicate where e-bikes are permitted and prohibited.
Programs	Coordinate with local agencies, law enforcement, schools, and community-based organizations, and other stakeholders to develop e-bike training and safety education campaigns and materials.

Neighborhood Electric Vehicles (NEVs)

As a zero-emission technology, NEVs not only help reduce harmful pollutants and greenhouse gas (GHG) emissions but also alleviate traffic congestion on local roads and ease parking demands in areas where space is limited. With a growing focus on reducing transportation-related carbon footprints, NEVs provide a scalable and sustainable option for low-speed, short-distance travel, making them an important tool for agencies seeking sustainable transportation alternatives. Note NEVs have additional features that make a golf cart street legal. A summary of proposed strategies and solutions to support NEVs is provided below.

Topic	Summary of NEV Strategies and Solutions
Land Use	Identify NEV priority areas (populated residential neighborhoods, mixed-use developments, and commercial or downtown areas) with a high need and opportunity for NEVs and plan NEV infrastructure within a 5-10 mile radius.
Infrastructure	Identify corridors within a 5-10 mile radius of NEV priority areas that may support NEV routes.
	Identify the potential level of traffic stress for NEV users along corridors and the NEV routes that could be implemented that offer the greatest comfort.
	Provide clear signage that identifies NEV routes and highlights areas where pedestrians and bicyclists may share space with NEVs, such as on off-street multi-use paths (Class I) and on-street bike lanes (Class II).

	Consider customized, branded NEV route signage.
	Provide modified parking for NEVs given smaller footprint and charging facilities.
Policy	Consider mandates for NEV parking that can count towards parking minimums.
	Consider developing free or reduced parking rates for NEVs.
	Consider developing free or reduced electric charging rates for NEVs.
	Consider development incentives for developers to provide NEV parking and charging stations.
Programs	Develop public education campaigns that raise awareness of NEVs and their safe and legal use.

These emerging mobility options can fill crucial gaps in today's transportation network that may not be served as effectively through traditional mobility options. WRCOG and its partner agencies may further evaluate the applicability of each of these emerging mobility options within specific geographies in the region on a case-by-case basis. The diverse community contexts and range of urban, suburban, and rural development patterns found within the region present many opportunities for these technologies to be applied successfully with appropriate planning.



Western Riverside Council of Governments Technical Advisory Committee

Staff Report

Subject: The Use of Artificial Intelligence in Local Government: City of Corona Case Study
Contact: Chris McMasters, Chief Information Officer, City of Corona,
chris.mcmasters@coronaca.gov, (951) 279-3513
Date: November 21, 2024

Recommended Action(s):

1. Receive and file.

Summary:

Artificial Intelligence (AI) represents both a significant opportunity and challenge for local governments. It has the potential to streamline operations and create significant efficiencies but has potential downsides as well. Staff from the City of Corona will present on their experience in implementing various strategies and tools related to AI in city departments, which could be applicable to WRCOG member agencies.

Purpose / WRCOG 2022-2027 Strategic Plan Goal:

The purpose of this item is to provide information regarding the use of AI strategies and tools by one member agency in the WRCOG subregion. This item supports WRCOG's 2022-2027 Strategic Plan Goal #4 (Communicate Proactively about the role and activities of the Council of Governments).

Discussion:

This item is reserved for a presentation from Chris McMasters, City of Corona Chief Information Officer, regarding the City's experience implementing various AI strategies and tools within the various City departments. The presentation is intended to provide concrete examples of how other WRCOG member agencies might incorporate similar approaches within their organizations.

Prior Action(s):

None.

Financial Summary:

This item is for informational purposes only; therefore, there is no fiscal impact.

Attachment(s):

None.



Western Riverside Council of Governments Technical Advisory Committee

Staff Report

Subject: Update on Climate Action Plan for Transportation Infrastructure (CAPTI)
Contact: Aaron Hake, Riverside County Transportation Commission, Executive Director,
ahake@rctc.org, (951) 787-7141
Date: November 21, 2024

Recommended Action(s):

1. Receive and file

Summary:

The California State Transportation Agency (CalSTA) recently published proposed updates to their Climate Action Plan for Transportation Infrastructure (CAPTI). This document is a policy directing California actions and funding decisions regarding transportation projects and programs. These proposed updates will further prioritize state funding for public and active transportation projects and disincentivize highway and roadway improvements. Staff from the Riverside County Transportation Commission (RCTC) will provide an update on CAPTI and suggested outreach activities by WRCOG member agencies, including providing public comments to CalSTA.

Purpose / WRCOG 2022-2027 Strategic Plan Goal:

The purpose of this item is to share information about the draft CAPTI document since the policies in this document potentially impact the ability to implement key infrastructure projects. This item supports WRCOG's 2022-2027 Strategic Plan Goal 5 (Develop projects and programs that improve infrastructure and sustainable development in our region).

Discussion:

Background

In 2021, CalSTA finalized CAPTI, which are guiding principles aimed at shaping future state transportation funding decisions based on executive orders signed by Governor Newsom in 2019 and 2020 to reduce greenhouse gas emissions in the transportation sector. The California State Transportation Agency (CalSTA) regularly prepares and updates guidance documents which impact State actions and funding decisions regarding various types of transportation infrastructure. While CAPTI was originally intended to inform, rather than dictate, state selection and support of projects for funding, there are growing instances of CAPTI being cited as justification for denying funding to projects that increase highway and road capacity.

Earlier in 2024, CalSTA determined that it had accomplished 34 actions in the document adopted in 2021 and announced its intention to adopt the plan "to include new actions to further implement the existing CAPTI framework." On October 31, 2024, CalSTA released its Draft 2024 CAPTI actions.

Additional information regarding CAPTI can be found at <https://calsta.ca.gov/subject-areas/climate-action-plan>.

Present Situation

CalSTA is now accepting public comments on its Draft 2024 CAPTI Actions. The comment period opened on November 1, 2024, and closes on December 13, 2024. Of particular interest to WRCOG member agencies is the inclusion of policy language related to vehicle miles traveled (VMT) neutrality or VMT reduction and efforts to codify portions of CAPTI in any manner that make its provisions permanent or removes the discretion of state agencies to consider regional circumstances when considering funding applications. If the document is adopted in its current form, this policy language will severely the ability of WRCOG member agencies to plan, design, and build key transportation infrastructure projects such as those projects in the TUMF Program.

Aaron Hake, RCTC Executive Director, will be providing an update on CAPTI and discussing potential outreach efforts.

Prior Action(s):

None.

Financial Summary:

This item is for informational purposes only; therefore, there is no fiscal impact.

Attachment(s):

None.