



Redwood Coast Energy Authority

633 3rd Street, Eureka, CA 95501

Phone: (707) 269-1700 Toll-Free (800) 931-7323 Fax: (707) 269-1777

E-mail: info@redwoodenergy.org Web: www.redwoodenergy.org

COMMUNITY ADVISORY COMMITTEE MEETING

**Jefferson Community Center Auditorium
1000 B Street, Eureka, CA 95501**

**September 12, 2023
Tuesday, 6 - 7:30 p.m.**

Any member of the public needing special accommodation to participate in this meeting or access the meeting materials should email LTaketa@redwoodenergy.org or call (707) 269-1700 at least 3 business days before the meeting. Assistive listening devices are available.

Pursuant to Government Code section 54957.5, all writings or documents relating to any item on this agenda which have been provided to a majority of the Community Advisory Committee, including those received less than 72 hours prior to the Committee's meeting, will be made available to the public at www.RedwoodEnergy.org.

NOTE: Speakers wishing to distribute materials to the Committee at the meeting, please provide 17 copies to the Board Clerk.

THIS IS A HYBRID IN-PERSON AND VIRTUAL MEETING.

The Community Advisory Committee has returned to in-person hybrid meetings. When attending CAC meetings, please socially distance as much as possible and be courteous to those who choose to wear a mask.

To participate in the meeting by phone, call (669) 900-6833 or (253) 215-8782. Enter webinar ID: 822 2338 1610. **To participate in the meeting online**, join the Zoom webinar at <https://us02web.zoom.us/j/82223381610>.

To comment by phone or online during the public comment periods, raise your hand in the online Zoom webinar, or press star (*) 9 on your phone to raise your hand. You will continue to hear the meeting while you wait. When it is your turn to speak, a staff member will ask you to unmute your phone or computer. You will have 3 minutes to speak.

You may email written comments to PublicComment@redwoodenergy.org. Please **identify the agenda item number in the subject line**. Comments will be included in the meeting record but not read aloud during the meeting.

While downloading the Zoom application may provide a better meeting experience, Zoom does not need to be installed on your computer to participate. After clicking the webinar link above, click "start from your browser."

COMMUNITY ADVISORY COMMITTEE MEETING AGENDA

Agenda Item / What	How / Action <u>Underlined actions</u> indicate that a vote is needed.	When																		
1. Open	<p><u>Roll Call:</u></p> <table><tr><td>Norman Bell</td><td>Luna Latimer</td></tr><tr><td>Elizabeth Burks</td><td>Ethan Lawton</td></tr><tr><td>Colin Fiske</td><td>Dennis Leonardi, Chair</td></tr><tr><td>Larry Goldberg</td><td>Kit Mann</td></tr><tr><td>Chris Honar</td><td>Emily Morris</td></tr><tr><td>Richard Johnson</td><td>Jeff Trirogoff</td></tr><tr><td>(2 vacancies)</td><td>Jerome Qirazi</td></tr><tr><td></td><td>Kris Mobley,</td></tr><tr><td></td><td>Board Liaison</td></tr></table> <p>Remote member participation:</p> <p>Action (if needed): <u>Approve teleconference participation request for this meeting by committee member pursuant to Brown Act revisions of AB 2449 due to an emergency circumstance to be briefly described.</u></p> <p>Review meeting agenda and goals.</p>	Norman Bell	Luna Latimer	Elizabeth Burks	Ethan Lawton	Colin Fiske	Dennis Leonardi, Chair	Larry Goldberg	Kit Mann	Chris Honar	Emily Morris	Richard Johnson	Jeff Trirogoff	(2 vacancies)	Jerome Qirazi		Kris Mobley,		Board Liaison	6-6:05 p.m. (5 min.)
Norman Bell	Luna Latimer																			
Elizabeth Burks	Ethan Lawton																			
Colin Fiske	Dennis Leonardi, Chair																			
Larry Goldberg	Kit Mann																			
Chris Honar	Emily Morris																			
Richard Johnson	Jeff Trirogoff																			
(2 vacancies)	Jerome Qirazi																			
	Kris Mobley,																			
	Board Liaison																			
2. Non-Agenda Item Public Comment	<p>This item is provided for the public to address the Committee on matters not on the agenda. At the end of public comments, the Committee may respond to statements, or refer requests requiring action to the Executive Director or the Board of Directors.</p>	6:00 – 6:05 p.m. (5 min.)																		
3. Consent Calendar	<p>All matters on the Consent Calendar are considered to be routine by the CAC and are enacted in one motion. There is no separate discussion of any of these items. If discussion is required, that item is removed from the Consent Calendar and considered separately. At the end of the reading of the Consent Calendar, CAC members or members of the public can request that an item be removed for separate discussion.</p> <p>Actions:</p> <p>3.1. <u>Approve July 11, 2023, CAC Meeting Minutes.</u></p> <p>3.2. <u>Accept Local Major Projects Subcommittee Update.</u></p>	6:05 – 6:10 p.m. (5 min.)																		
4. Items Removed from Consent Calendar	<p>This time is set aside for discussion of items removed from the Consent Calendar.</p>	6:10 – 6:15 p.m. (5 min.)																		
Agenda Item / What	How / Action <u>Underlined actions</u> indicate that a vote is needed.	When																		

5. CAC Vice Chair Selection	Action: <u>Accept nominations for and appoint a Community Advisory Committee vice chair to fill the remainder of a term ending March 31, 2024.</u>	6:15 – 6:25 p.m. (10 min.)
6. Critical Facilities Subcommittee Report	Action: Provide input on the critical facilities list to inform the staff's continuing work on energy resilience infrastructure development in Humboldt County.	6:25 – 6:45 p.m. (20 min.)
7. Strategic Plan Status Update	Action: Hear a semiannual update on RCEA RePower Humboldt Strategic Plan progress, current and upcoming projects.	6:45 – 7:10 p.m. (25 min.)
8. CAC Annual Report	Action: Accept volunteers for a CAC Ad Hoc 2024 Annual Report Subcommittee.	7:10 – 7:20 p.m. (10 min.)
9. Member and Board Liaison Reports	<p>This time is provided for Committee members and the Board Liaison to share information on topics not on the agenda. At the end of member reports, the Executive Director will set requests requiring action to a future agenda or refer requests to staff or the Board.</p> <p>9.1. Board Liaison</p> <p>9.2. Committee Members</p>	7:20 – 7:30 p.m. (10 min.)
10. Close & Adjourn		7:30 p.m.

NEXT REGULAR CAC MEETING – Tuesday, November 14, 2023, 6 - 7:30 p.m.
Jefferson Community Center Auditorium, 1000 B Street, Eureka, CA 95501.

This page
intentionally
left blank.



REDWOOD COAST Energy Authority

COMMUNITY ADVISORY COMMITTEE STAFF REPORT Agenda Item # 1

AGENDA DATE:	September 12, 2023
TO:	RCEA Community Advisory Committee
FROM:	Eileen Verbeck, Deputy Executive Director
SUBJECT:	Member Teleconference Participation

BACKGROUND

The COVID-19 State of Emergency ended on February 28, 2023, and RCEA Board and CAC meetings returned to meeting in-person at a physical location, with allowances under existing Brown Act rules or new AB 2449 Brown Act rules should a Board or CAC member need to participate from a remote location for certain reasons. If another state of emergency is declared, these bodies may be able to return to completely remote meetings.

SUMMARY

CAC members may attend up to two meetings per year from a remote location without making the location accessible to the public for the following reasons:

1. "Just cause"
 - a. To provide childcare or caregiving need to a child, parent, grandparent, grandchild, sibling, spouse, or domestic partner;
 - b. Due to a contagious illness that prevents the member from attending in-person;
 - c. Due to a need related to a physical or mental disability as defined in Government Code sections 12926 and 12926.1 not otherwise accommodated; and
 - d. Due to travel while on official business of the legislative body or another state or local agency.
2. "Emergency circumstance" due to a physical or family medical emergency that prevents the member from attending in person.

If the CAC member would like to attend the meeting remotely due to an emergency circumstance, the committee will take action by majority vote to approve the member's remote participation. A vote is not necessary for a request to attend remotely for just cause. A brief description, protecting the member's (or member's family member's) medical privacy, needs to be provided in both cases.

The remotely participating CAC member needs to publicly disclose at the meeting before any action (vote) is taken, whether anyone 18 years of age or older is present in the room at the remote location with the member, and the general nature of the individual's relationship with the CAC member.

If the CAC member anticipates needing to participate remotely for more than 2 meetings per year or for non-just cause or emergency reasons, staff recommends arranging for a publicly and ADA accessible space with visual and audio meeting capabilities from which to participate in keeping with previous Brown Act teleconference meeting requirements.

Staff asks to be notified one-week in advance, if possible, of remote meeting attendance so the member's publicly and ADA accessible remote meeting address can be published in the agenda, as may be required per Brown Act open meeting laws.

RECOMMENDED ACTION

Approve teleconference participation request for this meeting by committee member pursuant to Brown Act revisions of AB 2449 due to an emergency circumstance to be briefly described.



Redwood Coast Energy Authority

633 3rd Street, Eureka, CA 95501

Phone: (707) 269-1700

Toll-Free (800) 931-7323

Fax: (707) 269-1777

E-mail: info@redwoodenergy.org

Web: www.redwoodenergy.org

COMMUNITY ADVISORY COMMITTEE REGULAR MEETING

DRAFT MINUTES

July 11, 2023 - Tuesday, 6 - 7:30 p.m.

Community Advisory Committee Chair Dennis Leonardi called the hybrid in-person and teleconference meeting to order on the above date at 6:01 p.m. at the Jefferson Community Center auditorium, 1000 B Street, Eureka, CA. The agenda for this meeting was posted on July 7, 2023.

Members present:

Norman Bell
Elizabeth Burks

Colin Fiske

Larry Goldberg (arrived 6:33 p.m.)

Christopher Honar

Richard Johnson

Dennis Leonardi, Chair

Kit Mann

Emily Morris

Jerome Qirazi

Jeff Trirogoff

Members absent: Luna Latimer, Ethan Lawton

Board Liaison, non-voting: Kris Mobley (absent)

Staff present:

Richard Engel, Power Resources Director

Lori Taketa, Board Clerk

Eileen Verbeck, Deputy Executive Director

Non-Agenda Item Public Comment

No member of the public commented. Chair Leonardi closed the comment period.

Consent Calendar

3.1. Approve May 9, 2023, CAC Meeting Minutes.

3.2. Accept Local Major Projects Subcommittee Update.

Members requested the minutes be revised to reflect that a motion to advise the Board of Directors to exclude carbon-emitting Humboldt County energy sources from RCEA's renewable energy portfolio by 2030 was not made because this discussion item was not listed on the agenda, and that staff advised that this item could be placed on a future agenda to allow for required public notice. There was no public comment on the consent calendar items. Chair Leonardi closed the comment period.

Motion Fiske, Second Qiriazzi: Approve the consent calendar items with amendments to the May 9, 2023, CAC Meeting Minutes.

The motion passed with a unanimous vote. Ayes: Bell, Burks, Fiske, Honar, Johnson, Mann, Morris, Leonardi, Qiriazzi, Trirogoff. Noes: None. Abstain: None. Absent: Goldberg, Latimer, Lawton.

5. CAC Input on Humboldt Sawmill Company Annual Biomass Report

Power Resources Director Engel described the Humboldt Sawmill Company annual biomass use report, the report's history and process, how it fulfills the RCEA-HSC Memorandum of Understanding adopted when the existing power purchase agreement was extended, and how information from these reports is meant to inform decisions on alternative biomass feedstock use. Annual report data as well as analysis and requests from the recently formed Biomass Technical Advisory Group (BTAG) were shared. Staff shared that HSC is investigating hydrogen energy production as a potential alternative biomass use, and that RCEA plans to collaborate with the North Coast Unified Air Quality Management District on air pollution monitoring and data gathering in different locations around the county.

BTAG members requested more time to review HSC-provided data and more detailed descriptions of biomass source material. Staff will request HSC information be provided earlier to allow for more BTAG review time, organize an in-person BTAG meeting to discuss the annual HSC report, and provide the BTAG with more contextual information from the Air District to interpret the HSC data.

Chair Leonardi disclosed that he uses HSC fly ash as an organic soil amendment and for carbon sequestration on his dairy operation, a common local dairy farming practice.

Community Advisory Committee members expressed concerns about HSC's emissions data and air quality violations, requested information on how the violations were addressed by HSC to meet air quality standards, and suggested that BTAG indicate whether enough data was provided to inform alternate biomass use recommendations. Committee members also requested more detailed emissions data to be illustrated in graph form in the context of allowable limits to facilitate understanding, and that staff provide information on RCEA's procurement portfolio impacts should HSC no longer provide energy to RCEA. Committee members expressed a desire to discuss the following non-annual report topics: health and global warming impacts of the HSC biomass power plant's emissions and justification of RCEA's power purchase agreement with HSC in light of air quality and health concerns. Committee members requested a discussion on recommending an HSC power purchase sunset date to the Board at the next CAC meeting. Staff is engaging the Air District and County Health office to report on these expressed air quality concerns. Committee members requested an expanded discussion of HSC's emissions air quality health concerns with a panel that includes Dr. Wendy Ring.

BTAG member Dan Chandler, speaking on behalf of 350 Humboldt, Environmental Protection Information Center and Northcoast Environmental Center, provided a one-page

summary of HSC report comments, requested that a nationally recognized expert on biomass pollution's health impacts report to RCEA's Board, and asked that the Air Quality District provide a statement on any HSC pending violations.

BTAG member Clarke Stevenson of the Watershed Research and Training Center expressed concern regarding HSC's air quality impacts, requested a life cycle analysis that includes the extraction phase when comparing Humboldt Bay Generating Station natural gas and Humboldt Sawmill Company biomass energy, and suggested implementation of best available pollution-control technologies at HSC as a mid-term solution.

Southern Humboldt resident Bob Wiener requested air quality monitoring in areas close to the HSC biomass plant and extending outward, and comparison with Health Department data on cancer clusters.

Public health professional Wendy Ring, M.D., requested time at a CAC meeting to present findings on the Air Quality Management District's regulation enforcement and monitoring shortfalls.

Chair Leonardi closed the public comment period.

6. Humboldt's Electric Future Community Engagement Draft Final Report

Power Resources Director Engel described the project to inform the community about RCEA's state- and Board-set procurement and planning obligations, and to gather community input on RCEA's power procurement in the context of these constraints. Director Engel presented the project's final report to the committee.

Workshop participants prioritized reducing greenhouse gas emissions in RCEA's power portfolio quickly and supported local renewable energy development. In contrast to the Board's direction to procure all energy locally by 2030, workshop participants generally deprioritized purchasing locally produced energy in favor of reducing greenhouse gas emissions and increasing renewable energy procurement regardless of where it is produced. The sample procurement mix most favored by workshop participants produced the least greenhouse gas emissions but will require energy storage solutions in the long term and short-term procurement to fill energy generation gaps.

Staff will incorporate CAC comments into the final report which will be presented to the Board of Directors and published. The community input collected through this project will be included in the process of filing RCEA's 2024 Integrated Resource Plan statewide energy procurement planning report.

CAC members discussed:

- Making 24/7 renewable energy and fuel switching a procurement goal.
- The planned transmission grid upgrades' effect of lessening the perceived need for 100% local energy.
- The risk of all locally produced offshore wind energy being exported without

addressing local grid reliability needs, and the increased need to develop local renewable energy sources.

- The need to include a broader range of the community in outreach events and strategies for increasing participant outreach.
- The need to indicate whether electrification needs are included in reported loads.
- The need to clarify the term “no emissions” and what reducing emissions means, since the reported fuel sources create biogenic emissions.
- The desire to exclude HSC’s biomass energy from compliant energy sources due to health risks.

Southern Humboldt resident Bob Wiener supported using locally produced energy locally and recruiting more community participation from Rio Dell and areas most affected by the biomass plant.

Member of the public Martha Walden spoke and submitted written comment asking for more time to be allowed for input on Integrated Resource Plan decisions.

Member of the public Nancy Ihara supported ending HSC biomass energy procurement at the end of the current contract if not sooner and asked that the CAC make that recommendation to the RCEA Board.

Chair Leonardi closed the comment period.

7. Critical Facilities Subcommittee Report

Due to a lack of time, this item was not discussed at this meeting. The Chair requested that this item be discussed at the next meeting.

8. Member and Board Liaison Reports

The Chair noted that Board Liaison Mobley prepared a written report which is included in the agenda packet.

Chair Leonardi adjourned the meeting at 7:48 p.m.

Lori Taketa
Clerk of the Board



**COMMUNITY ADVISORY COMMITTEE
STAFF REPORT
Agenda Item # 3.2**

AGENDA DATE:	September 12, 2023
TO:	RCEA Community Advisory Committee
PREPARED BY:	Eileen Verbeck, Deputy Executive Director
SUBJECT:	Ad Hoc Local Major Projects Subcommittee Update

BACKGROUND

The CAC adopted the following work goal for 2022 and 2023: *monitor and advocate for implementation of RePower Humboldt Comprehensive Action Plan for Energy goals and notify staff of community activities and projects that may have significant impact on the ability to reach these goals.*

At the March CAC meeting, two major local development projects were identified which will likely impact the ability to meet RePower Humboldt strategic plan goals—the McKinleyville Town Center and Arcata Gateway Projects. Committee members also requested strategic plan impact consideration of City of Eureka-owned property development and accessory dwelling unit inclusion in countywide jurisdictions' General Plans.

An ad hoc local major projects subcommittee was formed at the May CAC meeting to identify at a high level the development projects' intersection with RCEA goals. The scope of the subcommittee's project review will be determined after this high-level assessment. After areas of relevance are identified, staff will follow up by engaging with the jurisdictions to discuss potential RCEA assistance and advocacy. CAC members Burks, Fiske, Honar and Johnson volunteered to serve on this ad hoc subcommittee.

SUMMARY

Since the subcommittee's formation, staff have identified other significant projects which warrant consideration for strategic plan intersection and impacts, including harbor development for offshore wind industry uses. Staff have scheduled an initial meeting to work with subcommittee members to consider the project list and will hone the subcommittee's sunset date based on levels of project review and staff engagement with jurisdictions.

At a future meeting the ad hoc Local Major Project subcommittee will report back to the CAC on possible ways RCEA can provide feedback for these projects.

STAFF RECOMMENDATION

Accept Local Major Projects Subcommittee Update.

This page
intentionally
left blank.



REDWOOD COAST Energy Authority

COMMUNITY ADVISORY COMMITTEE STAFF REPORT Agenda Item # 5

AGENDA DATE:	September 12, 2023
TO:	RCEA Community Advisory Committee
FROM:	Eileen Verbeck, Deputy Executive Director
SUBJECT:	Selection of CAC Vice Chair

BACKGROUND

Vice Chair Katy Gurin resigned from the CAC on June 26. The chair and vice chair are normally selected during the first quarter of each calendar year, per procedures outlined in the Community Advisory Committee Charter. Terms for each role are one year, beginning in April and ending the following April. Staff recommends appointing a member to fill the vice chair role for the remainder of the term, which ends on March 31, 2024.

As a reminder, the chair's duties are to:

- Facilitate meetings, or request staff assistance to facilitate meetings
- On an as-needed basis, call special meetings between regularly scheduled meetings
- Encourage participation and help create a civil, collaborative environment
- Make sure each committee members' thoughts and ideas are heard and that input and feedback from the public is fairly considered for each discussion item
- Help group stay focused on task and build agreements.

The vice chair fulfils these roles when the chair is unavailable.

According to the Charter, no member will serve as chair or vice chair for more than two consecutive terms.

The CAC membership term expiration dates are listed below. Due to the recent RCEA joint powers agreement membership expansion, two at-large seats will be replaced by Blue Lake Rancheria and Yurok Tribe seats at the end of the current CAC member term. Current CAC members with terms expiring in 2024 will be polled for interest in continuing their service, and their applications included in a candidate pool for consideration by either a Board nomination subcommittee or Board Directors with CAC vacancies for their jurisdiction.

REPRESENTING JURISDICTION	MEMBER NAME	TERM EXPIRATION DATE
ARCATA	Norman Bell	3/31/2025
AT-LARGE	Colin Fiske	3/31/2024
AT-LARGE	Larry Goldberg, Chair	3/31/2024
AT-LARGE	Emily Morris	3/31/2024
AT-LARGE	Jeff Trirogoff	3/31/2024
BLUE LAKE	Kit Mann	3/31/2025

COUNTY 1	Luna Latimer	3/31/2025
COUNTY 2	Christopher Honar	3/31/2025
COUNTY 3	Jerome Qirazi	3/31/2024
EUREKA	Vacant	3/31/2025
FERNDALE	Dennis Leonardi, Chair	3/31/2024
FORTUNA	Elizabeth Burks	3/31/2024
HBMWD	Ethan Lawton	3/31/2024
RIO DELL	Vacant	3/31/2024
TRINIDAD	Richard Johnson	3/31/2025

RECOMMENDED ACTION

Accept nominations for and appoint a Community Advisory Committee vice chair to fill the remainder of a term ending March 31, 2024.



REDWOOD COAST Energy Authority

STAFF REPORT Agenda Item # 6

AGENDA DATE:	September 12, 2023
TO:	Community Advisory Committee
PREPARED BY:	Juliette Bohn, Infrastructure Programs Manager
SUBJECT:	Critical Facilities Infrastructure Resilience Building Planning

BACKGROUND

The Humboldt County region is vulnerable to natural disasters including floods, wildfires, and earthquakes which can all threaten safety, electric power availability, and access to essential community services. PG&E's expanded Public Safety Power Shutoff (PSPS) wildfire prevention program can itself put lives at risk, cause significant economic impacts, disrupt critical facility operations as well as increase greenhouse gas emissions and deteriorate local air quality when diesel generators are operated for backup power.

RCEA staff have been engaged in identifying critical facilities across the county for the past few years using the State's Energy Assurance Planning identification and prioritization process to develop a tiered list of facilities that provide emergency services in the event of a disaster, as well as facilities that provide essential services that enable the community to recover after a disaster. The critical facilities list will be used to prioritize energy resilience infrastructure development in Humboldt County.

Recently, new sources of federal and state funding for energy resilience infrastructure development have become available, presenting an opportunity to reduce local climate risk and increase energy security at a significant level throughout the county.

At its March 2022 meeting, the Community Advisory Committee set the following goal for the coming year, "Assisting with identifying and prioritizing critical facilities and at-risk communities that would benefit from enhanced energy resilience infrastructure, including future microgrid deployment and/or facility-level renewable back-up power systems."

CAC members, Luna Latimer, Jerome Qirazi, and Jeff Trirogoff volunteered to serve on an ad hoc Critical Facilities Subcommittee which was asked to review the RCEA staff critical facilities list and provide their own ranking of Tier 1 facilities – i.e., those that provide core emergency services during and after a natural disaster or other prolonged power outage event. In addition, the subcommittee was asked to list any facilities that were not included on the list and will sunset after the full CAC has an opportunity to do the same at this meeting. The prioritized critical facilities list, with subcommittee input, is attached.

SUMMARY

At this meeting, staff requests further feedback from the full Community Advisory Committee. Staff is especially interested in learning of any facilities that are missing from the list in each geographical area, including "informal critical facilities" or places where the community would go

for help during a disaster that might not normally be considered “critical” (e.g. hospitals, schools, fire and police stations). The revised list will assist staff as they continue to pursue regional resilience infrastructure development. This work includes:

- Reaching out to critical facility agencies and owners to assess interest and willingness to work together.
- Determining what kind of energy resilience infrastructure best suits the facility and community’s needs.
- Investigating available funding sources.
- Prioritizing funding pursuit.

ALIGNMENT WITH [RCEA’S STRATEGIC PLAN](#)

Community members and leaders involved in RCEA’s formation were keenly aware of the region’s natural disaster and power disruption vulnerabilities. One of the agency goals listed in RCEA’s Joint Powers Agreement is “To develop regional capabilities to respond to energy emergencies and short-term disruptions in energy supply, infrastructure, or markets that could adversely affect Humboldt residents and businesses.”

RePower Humboldt, RCEA’s strategic plan, lists these strategies aimed at building disaster and energy resilience:

Regional Planning and Coordination

1.2 Energy-Related Emergency Response

1.2.1 Develop Emergency Response Capabilities – Coordinate with other local entities to develop regional capabilities to respond to energy emergencies and disruptions impacting energy supply, infrastructure, or energy markets. Incorporate efforts to enhance emergency response capabilities across all of RCEA’s customer programs.

Integrated Demand Side Management

2.1 Integrated Demand Side Management Strategies

2.1.7 Support and Deploy Microgrids – Support and deploy energy microgrids, focusing on critical infrastructure and community facilities, that combine onsite generation, energy storage, and advanced control systems to provide energy resiliency and maintain emergency-response capabilities as well as ongoing economic and environmental benefits.

EQUITY IMPACTS

In Humboldt County, the most vulnerable communities tend to be at the outermost edges of the region’s electric grid. These communities are disproportionately impacted by grid failures, wildfire, and winter storms. Increasing the resilience of critical facilities in these areas may help translate to: greater economic, social and health benefits for residents of these communities; and more consistent and reliable access to energy

FINANCIAL IMPACT

N/A. Critical facilities identification and prioritization is part of the normal scope of RCEA work. Pinpointing areas of greatest need allows more effective direction of staff efforts.

RECOMMENDED ACTIONS

- Provide input on the critical facilities list to inform the staff's continuing work on energy resilience infrastructure development in Humboldt County.

ATTACHMENTS

- Critical infrastructure list
- Identified Critical Facilities Map

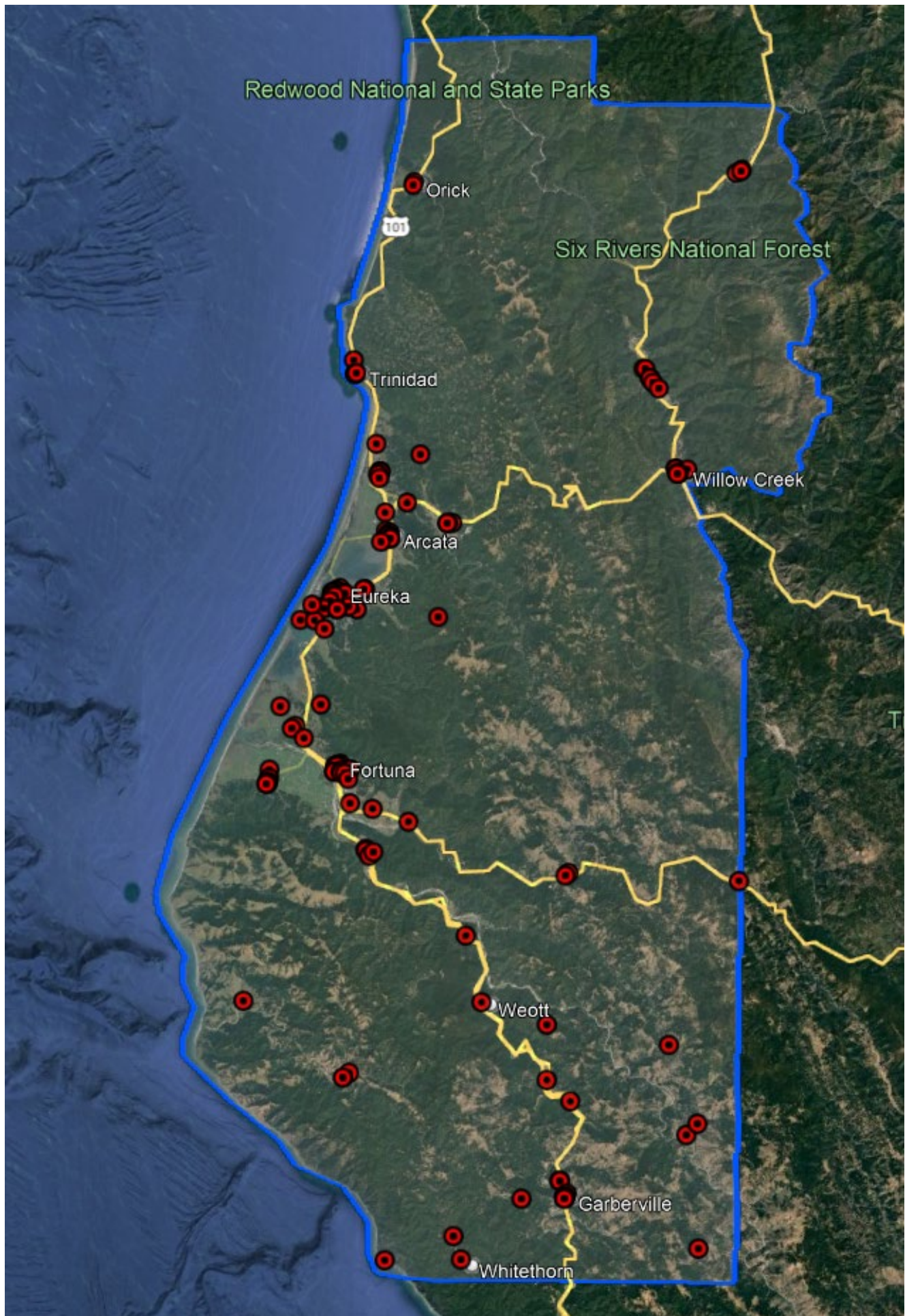
	Asset Name	Average Rank
1	CAL FIRE Humboldt Del Norte Unit - Bridgeville Station	3
2	CAL FIRE Humboldt Del Norte Unit - Fortuna Station	3
3	CAL FIRE Humboldt Del Norte Unit - Thorn Station	3
4	CAL FIRE Humboldt Del Norte Unit - Trinidad Station	3
5	CAL FIRE Humboldt Del Norte Unit - Mattole Station	3
6	CAL FIRE Humboldt Del Norte Unit - Garberville Station	3
7	CAL FIRE Humboldt Del Norte Unit - Alderpoint Station	3
8	Arcata Fire Department	3
9	Blue Lake Volunteer Fire Department	3
10	Six Rivers National Fire and Aviation - Headquarters	3
11	Six Rivers National Fire and Aviation - Lower Trinity Ranger District	3
12	Six Rivers National Fire and Aviation - Mad River Ranger District	3
13	Six Rivers National Fire and Aviation - Orleans Ranger District	3
14	Humboldt Bay Fire Station 1	3
15	Humboldt Bay Fire Station 2	3
16	Humboldt Bay Fire Station 3	3
17	Humboldt Bay Fire Station 4	3
18	Humboldt Bay Fire Station 5	3
19	Ferndale Volunteer Fire Department	3
20	Fieldbrook Volunteer Fire Department	3
21	Fortuna Volunteer Fire Department	3
22	Garberville Fire Protection District	3
23	Palo Verde Volunteer Fire Department	3
24	Honeydew Volunteer Fire Company	3
25	Hoopa Volunteer Fire Department	3
26	Hoopa Fire Department	3

	Asset Name	Average Rank
27	Kneeland Volunteer Fire Department	3
28	Miranda Volunteer Fire Department	3
29	Fruitland Volunteer Fire Company	3
30	Orick Volunteer Fire Department	3
31	Orleans Volunteer Fire Department	3
32	Petrolia Volunteer Fire Department	3
33	Phillipsville Volunteer Fire Department	3
34	Redcrest Volunteer Fire Department	3
35	Briceland Volunteer Fire Department	3
36	Rio Dell Fire Department Main Station	3
37	Samoa Peninsula Fire District	3
38	Weott Volunteer Fire Department	3
39	Shelter Cove Volunteer Fire Department	3
40	Whitethorn Fire Protection District	3
41	Willow Creek Volunteer Fire Department	3
42	Humboldt County Sheriff's Office - Garberville Station	3
43	Humboldt County Sheriff's Office - Main Eureka Station	3
44	Humboldt County Sheriff's Office - McKinleyville Station	3
45	Arcata Police Department	3
46	Eureka Police Department	3
47	Ferndale Police Department	3
48	Fortuna Police Department	3
49	Rio Dell Police Department	3
50	Trinidad Police Department	3
51	Hoopa Tribal Police	2.7
52	Mad River Community Hospital	2.5
53	St. Joseph Hospital	2.5
54	Jerold Phelps Community Hospital	2.5
55	Redwood Memorial Hospital	2.5
56	Six Rivers Medical Clinic	2.5
57	K'ima:w Medical Center	2.5
58	Cal-Ore Life Flight	2.5

	Asset Name	Average Rank
59	Arcata-Eureka Airport	2.5
60	Rohnerville Airport	2.5
61	Murray Field	2.5
62	Willow Creek Community Services District	2.5
63	Orleans Community Services District	2.5
64	McKinleyville Community Services District	2.5
65	Arcata Wastewater Treatment Plant	2.5
66	Rio Dell Wastewater Treatment Plant	2.5
67	Eureka Wastewater Treatment Plant	2.3
68	Redway Community Services District	2
69	Redway Community Services District	2
70	Fortuna Water Plant	2
71	Ferndale Wastewater Treatment Plant	2
72	Yurok Tribe Weitchpec Office	2
73	Azalea Hall	2
74	McKinleyville Teen & Community Center	2
75	Jefferson Community Center	1.7
76	Rohner Rec Hall	1.7
77	Gene Lucas Community Center	1.5
78	D Street Neighborhood Center	1.5
79	Arcata Community Center	1.5
80	Eureka Municipal Auditorium	1.5
81	Loleta - Loleta Elementary School	1.5
82	Loleta Fireman's Pavilion	1.5
83	Carlotta - Cuddeback Elementary	1.5
84	Blue Lake - Prash Hall	1
85	Humboldt County Office of Emergency Services	1
86	Fortuna Water Plant	1
87	Humboldt Bay Municipal Water District	1
88	Loleta CSD	1
89	Westhaven CSD	1
90	Palmer Creek CSD	1
91	Hydesville CSD	1
92	US Coast Guard Station Humboldt Bay	1

	Asset Name	Average Rank
93	Arcata Veterans Memorial Building	1
94	Eureka Veterans Memorial Hall	1
95	Ironside Post 9561	1
96	Ferndale Veterans Memorial Hall	1
97	Fortuna Veterans Memorial Building	1
98	American Legion	1
99	Humboldt County Coroner	1
100	Sempervirens	1
101	Humboldt County Library	1
102	Food for People Network	1

	Additional Critical Facilities	Rank	NOTES:
103	Karuk Department of Natural Resources	3	Includes Karuk fire response and Community Center, clean air facility, commercial kitchen, has backup generation (fossil fuel)
104	Karuk Medical Clinic - Orleans	3	
105	Karuk Panamnik Center	3	Includes senior food program, clean air facility, has backup generation (fossil fuel)
106	Humboldt Transit Authority	3	Consider ranking as a 3 if used for evacuation. HTA is listed as an evacuation resource by OES. However, we do not have a formal plan, nor do we coordinate/train regularly
107	Private ambulance services	3	Example is City Ambulance of Eureka
108	Bear River Rancheria Police	3	
109	Blue Lake Rancheria Tribal Police	3	
110	Identify key gasoline and diesel fuel sources	3	
111	Chevron Terminal Station	3	Critical source of fuel for the area
112	Mid Klamath Watershed Council (Panamnik Building)	2	Includes community center/clean air facility, has backup generation (propane)
113	Orleans Elementary School	2	Likely location for a shelter during an emergency (as other community centers may function as incident command posts). Has back up generation (fossil fuel)
114	NOAA EKA office on Woodley Island	2	They might be trained for and support regional emergency response. Also, State DWR used to have a staffed emergency flood response office attached to NOAA (established after the '64 flood). Check to see if this is still the case.
115	Wiyot Tribe Natural Resources Dept	2	Provides emergency operations support to Table Bluff region and supports drinking water infrastructure.
116	Garberville Sanitation District	2	Rank 2 if they provide critical water/sewer services
117	SoHum Health New Garberville Medical Center	2	If appropriate to add a known future medical center, Rank as 2. Anticipated to be completed in 2029.
118	Thundermountain Water Association	1	501(c)(7) community water association/system, but does not require power
119	Hoopa Willow Creek Ambulance	1	
120	Orleans Mutual Water Co (Crawford Creek Water System)	1	Community water system, but probably does not require power
121	Blue Lake Rancheria	1	They have already served as destination during PSPS events. Even though already have resiliency infrastructure, I assume they should be on the list
122	PG&E facilities	1	Supporting operation of critical facilities. Example is the Myrtle town office and equipment site
123	Mattole Community Center	1	



This page
intentionally
left blank.



Humboldt County Critical Facilities

Presentation to RCEA Community Advisory Committee
September 12, 2023



Resilience Infrastructure Planning

1. Why are we doing this?
2. Energy Assurance Process
3. Next Steps
4. CAC Feedback



	Asset Name	Average Rank
1	CAL FIRE Humboldt Del Norte Unit - Bridgeville Station	3
2	CAL FIRE Humboldt Del Norte Unit - Fortuna Station	3
3	CAL FIRE Humboldt Del Norte Unit - Thorn Station	3
4	CAL FIRE Humboldt Del Norte Unit - Trinidad Station	3
5	CAL FIRE Humboldt Del Norte Unit - Mattole Station	3
6	CAL FIRE Humboldt Del Norte Unit - Garberville Station	3
7	CAL FIRE Humboldt Del Norte Unit - Alderpoint Station	3
8	Arcata Fire Department	3
9	Blue Lake Volunteer Fire Department	3
10	Six Rivers National Fire and Aviation - Headquarters	3
11	Six Rivers National Fire and Aviation - Lower Trinity Ranger District	3
12	Six Rivers National Fire and Aviation - Mad River Ranger District	3
13	Six Rivers National Fire and Aviation - Orleans Ranger District	3
14	Humboldt Bay Fire Station 1	3
15	Humboldt Bay Fire Station 2	3
16	Humboldt Bay Fire Station 3	3
17	Humboldt Bay Fire Station 4	3
18	Humboldt Bay Fire Station 5	3
19	Ferndale Volunteer Fire Department	3
20	Fieldbrook Volunteer Fire Department	3
21	Fortuna Volunteer Fire Department	3
22	Garberville Fire Protection District	3
23	Palo Verde Volunteer Fire Department	3
24	Honeydew Volunteer Fire Company	3
25	Hoopa Volunteer Fire Department	3
26	Hoopa Fire Department	3

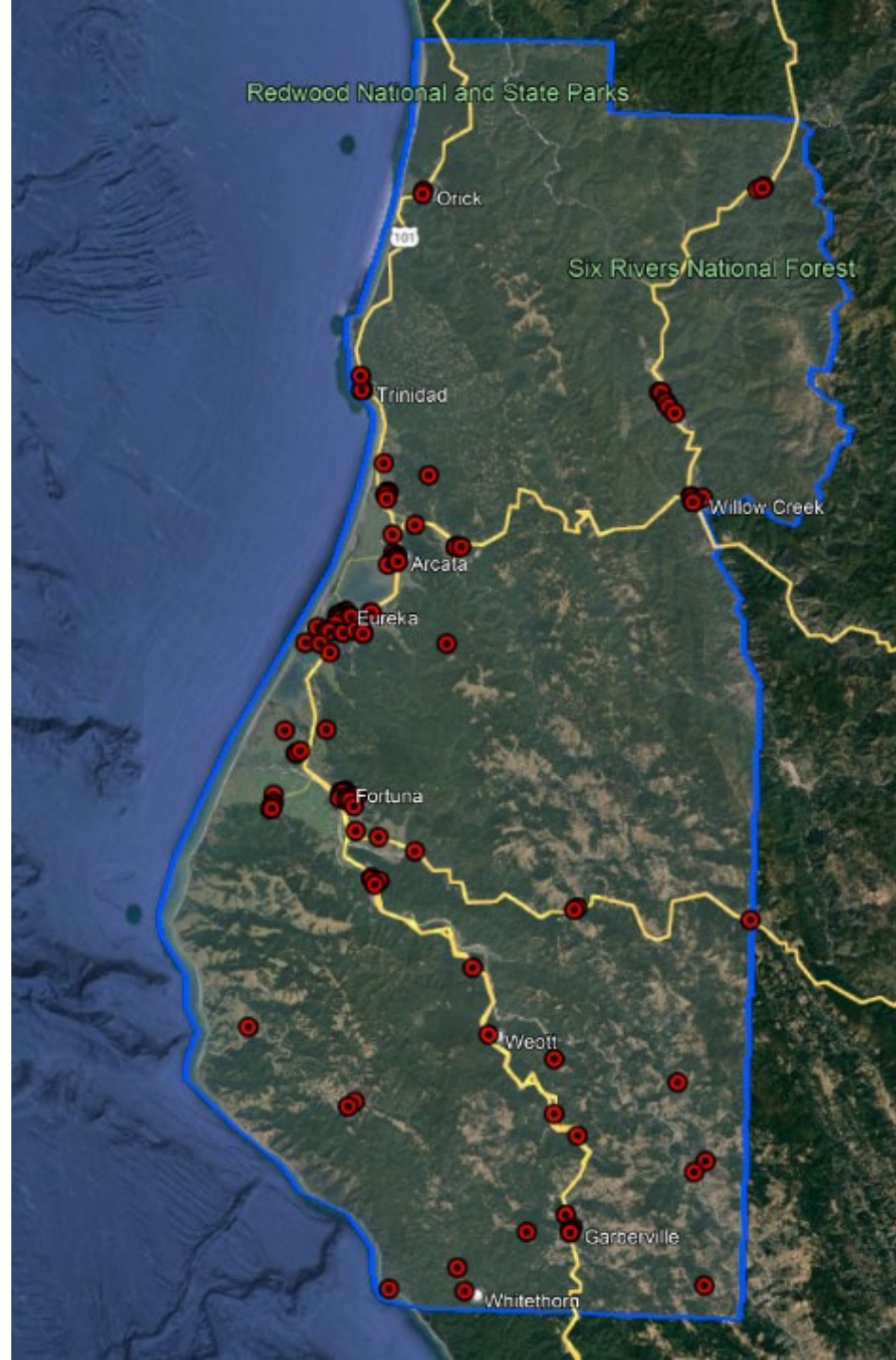
	Asset Name	Average Rank
27	Kneeland Volunteer Fire Department	3
28	Miranda Volunteer Fire Department	3
29	Fruitland Volunteer Fire Company	3
30	Orick Volunteer Fire Department	3
31	Orleans Volunteer Fire Department	3
32	Petrolia Volunteer Fire Department	3
33	Phillipsville Volunteer Fire Department	3
34	Redcrest Volunteer Fire Department	3
35	Briceland Volunteer Fire Department	3
36	Rio Dell Fire Department Main Station	3
37	Samoa Peninsula Fire District	3
38	Weott Volunteer Fire Department	3
39	Shelter Cove Volunteer Fire Department	3
40	Whitethorn Fire Protection District	3
41	Willow Creek Volunteer Fire Department	3
42	Humboldt County Sheriff's Office - Garberville Station	3
43	Humboldt County Sheriff's Office - Main Eureka Station	3
44	Humboldt County Sheriff's Office - McKinleyville Station	3
45	Arcata Police Department	3
46	Eureka Police Department	3
47	Ferndale Police Department	3
48	Fortuna Police Department	3
49	Rio Dell Police Department	3
50	Trinidad Police Department	3

	Asset Name	Average Rank
51	Hoopa Tribal Police	2.7
52	Mad River Community Hospital	2.5
53	St. Joseph Hospital	2.5
54	Jerold Phelps Community Hospital	2.5
55	Redwood Memorial Hospital	2.5
56	Six Rivers Medical Clinic	2.5
57	K'ima:w Medical Center	2.5
58	Cal-Ore Life Flight	2.5
59	Arcata-Eureka Airport	2.5
60	Rohnerville Airport	2.5
61	Murray Field	2.5
62	Willow Creek Community Services District	2.5
63	Orleans Community Services District	2.5
64	McKinleyville Community Services District	2.5
65	Arcata Wastewater Treatment Plant	2.5
66	Rio Dell Wastewater Treatment Plant	2.5
67	Eureka Wastewater Treatment Plant	2.3
68	Redway Community Services District	2
69	Redway Community Services District	2
70	Fortuna Water Plant	2
71	Ferndale Wastewater Treatment Plant	2
72	Yurok Tribe Weitchpec Office	2
73	Azalea Hall	2
74	McKinleyville Teen & Community Center	2

	Asset Name	Average Rank
75	Jefferson Community Center	1.7
76	Rohner Rec Hall	1.7
77	Gene Lucas Community Center	1.5
78	D Street Neighborhood Center	1.5
79	Arcata Community Center	1.5
80	Eureka Municipal Auditorium	1.5
81	Loleta - Loleta Elementary School	1.5
82	Loleta Fireman's Pavilion	1.5
83	Carlotta - Cuddeback Elementary	1.5
84	Blue Lake - Prash Hall	1
85	Humboldt County Office of Emergency Services	1
86	Fortuna Water Plant	1
87	Humboldt Bay Municipal Water District	1
88	Loleta CSD	1
89	Westhaven CSD	1
90	Palmer Creek CSD	1
91	Hydesville CSD	1
92	US Coast Guard Station Humboldt Bay	1
93	Arcata Veterans Memorial Building	1
94	Eureka Veterans Memorial Hall	1
95	Ironside Post 9561	1
96	Ferndale Veterans Memorial Hall	1
97	Fortuna Veterans Memorial Building	1
98	American Legion	1
99	Humboldt County Coroner	1
100	Sempervirens	1
101	Humboldt County Library	1
102	Food for People Network	1

	Additional Critical Facilities	Rank	NOTES:
103	Karuk Department of Natural Resources	3	Includes Karuk fire response and Community Center, clean air facility, commercial kitchen, has backup generation (fossil fuel)
104	Karuk Medical Clinic - Orleans	3	
105	Karuk Panamnik Center	3	Includes senior food program, clean air facility, has backup generation (fossil fuel)
106	Humboldt Transit Authority	3	Consider ranking as a 3 if used for evacuation. HTA is listed as an evacuation resource by OES. However, we do not have a formal plan, nor do we coordinate/train regularly
107	Private ambulance services	3	Example is City Ambulance of Eureka
108	Bear River Rancheria Police	3	
109	Blue Lake Rancheria Tribal Police	3	
110	Identify key gasoline and diesel fuel sources	3	
111	Chevron Terminal Station	3	Critical source of fuel for the area
112	Mid Klamath Watershed Council (Panamnik Building)	2	Includes community center/clean air facility, has backup generation (propane)
113	Orleans Elementary School	2	Likely location for a shelter during an emergency (as other community centers may function as incident command posts). Has back up generation (fossil fuel)
114	NOAA EKA office on Woodley Island	2	They might be trained for and support regional emergency response. Also, State DWR used to have a staffed emergency flood response office attached to NOAA (established after the '64 flood). Check to see if this is still the case.
115	Wiyot Tribe Natural Resources Dept	2	Provides emergency operations support to Table Bluff region and supports drinking water infrastructure.
116	Garberville Sanitation District	2	Rank 2 if they provide critical water/sewer services
117	SoHum Health New Garberville Medical Center	2	If appropriate to add a known future medical center, Rank as 2. Anticipated to be completed in 2029.
118	Thundermountain Water Association	1	501(c)(7) community water association/system, but does not require power
119	Hoopla Willow Creek Ambulance	1	
120	Orleans Mutual Water Co (Crawford Creek Water System)	1	Community water system, but probably does not require power
121	Blue Lake Rancheria	1	They have already served as destination during PSPS events. Even though already have resiliency infrastructure, I assume they should be on the list
122	PG&E facilities	1	Supporting operation of critical facilities. Example is the Myrtle town office and equipment site
123	Mattole Community Center	1	

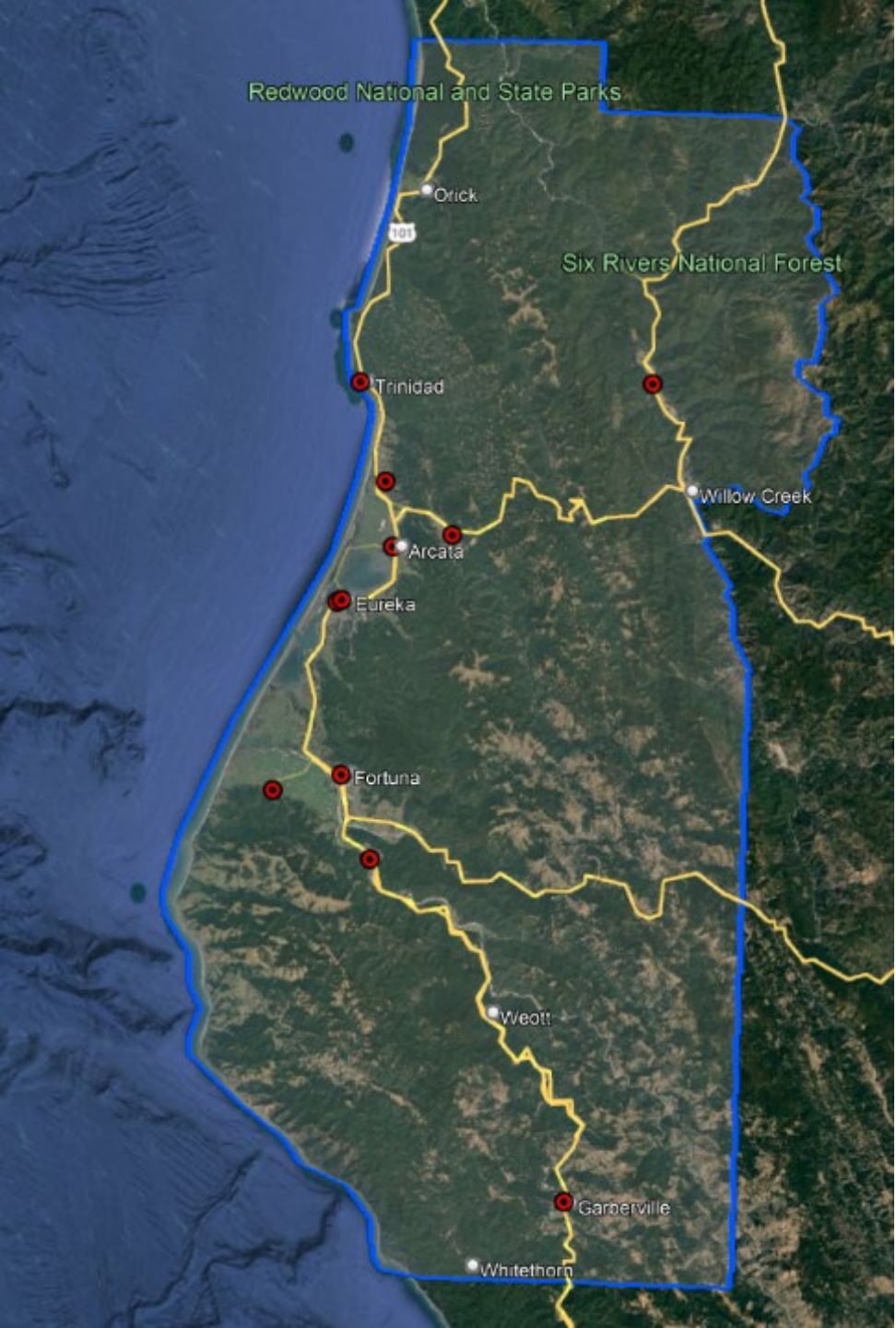
Humboldt County Critical Facilities



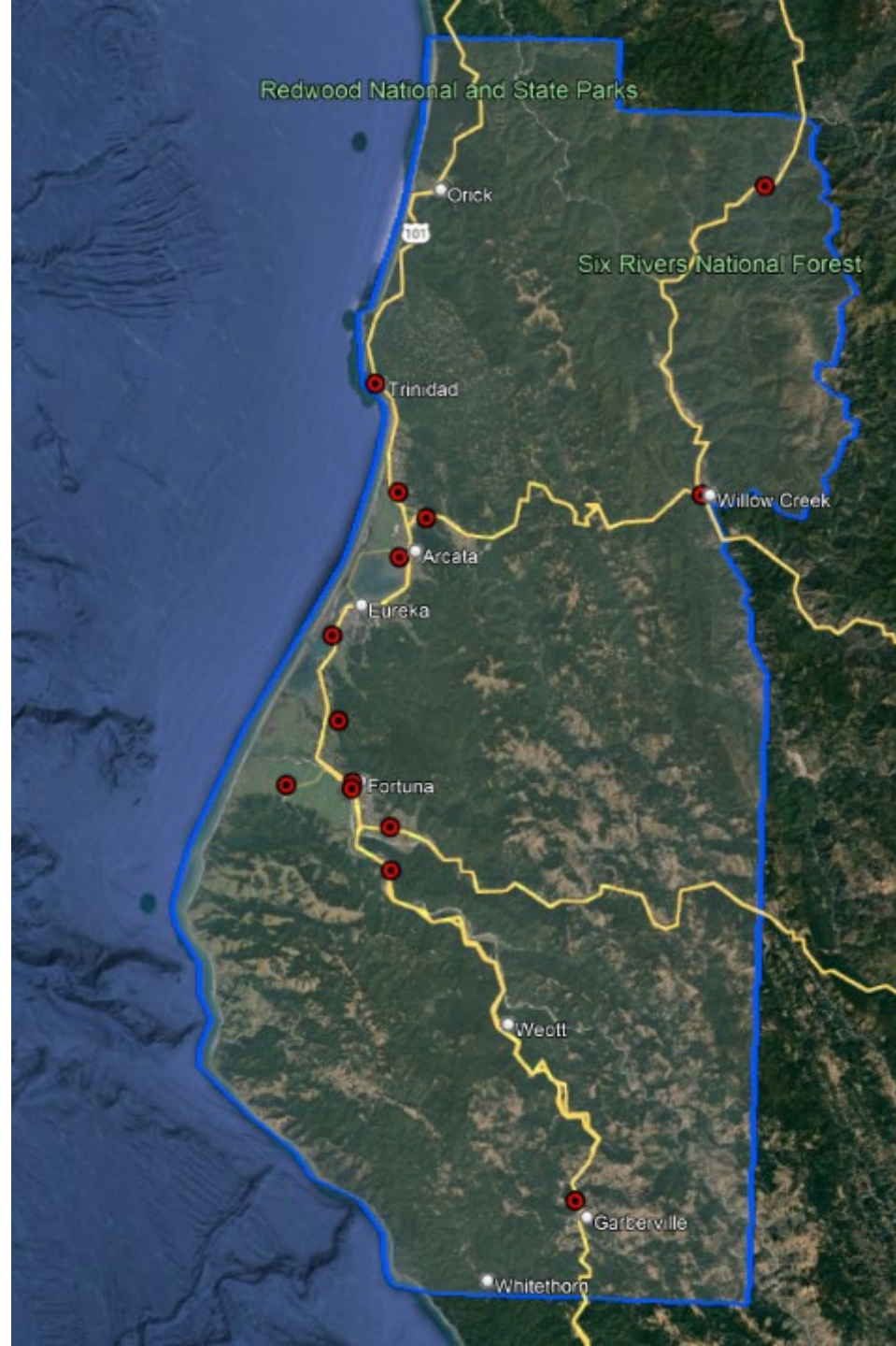
Fire Stations



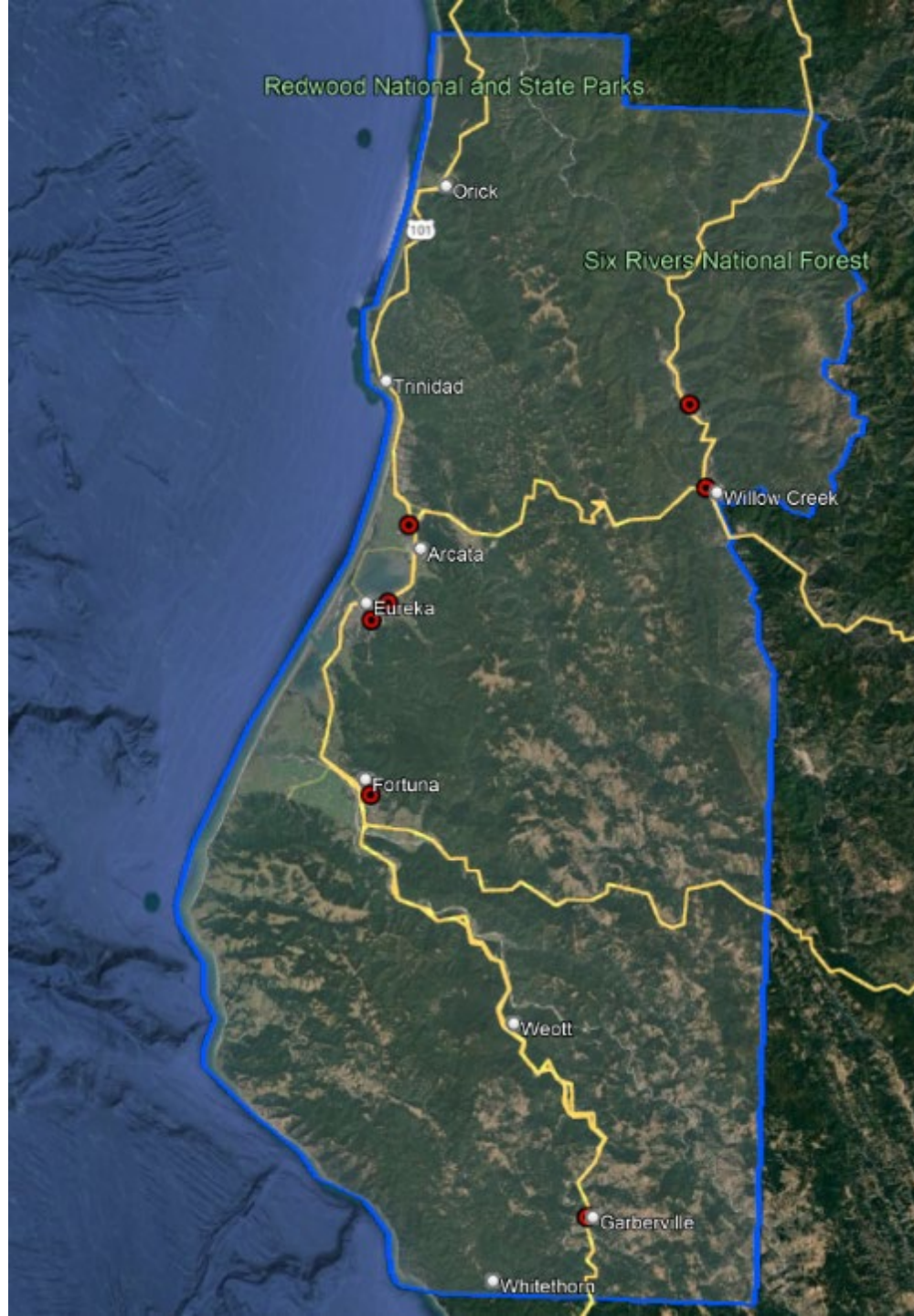
Police Stations



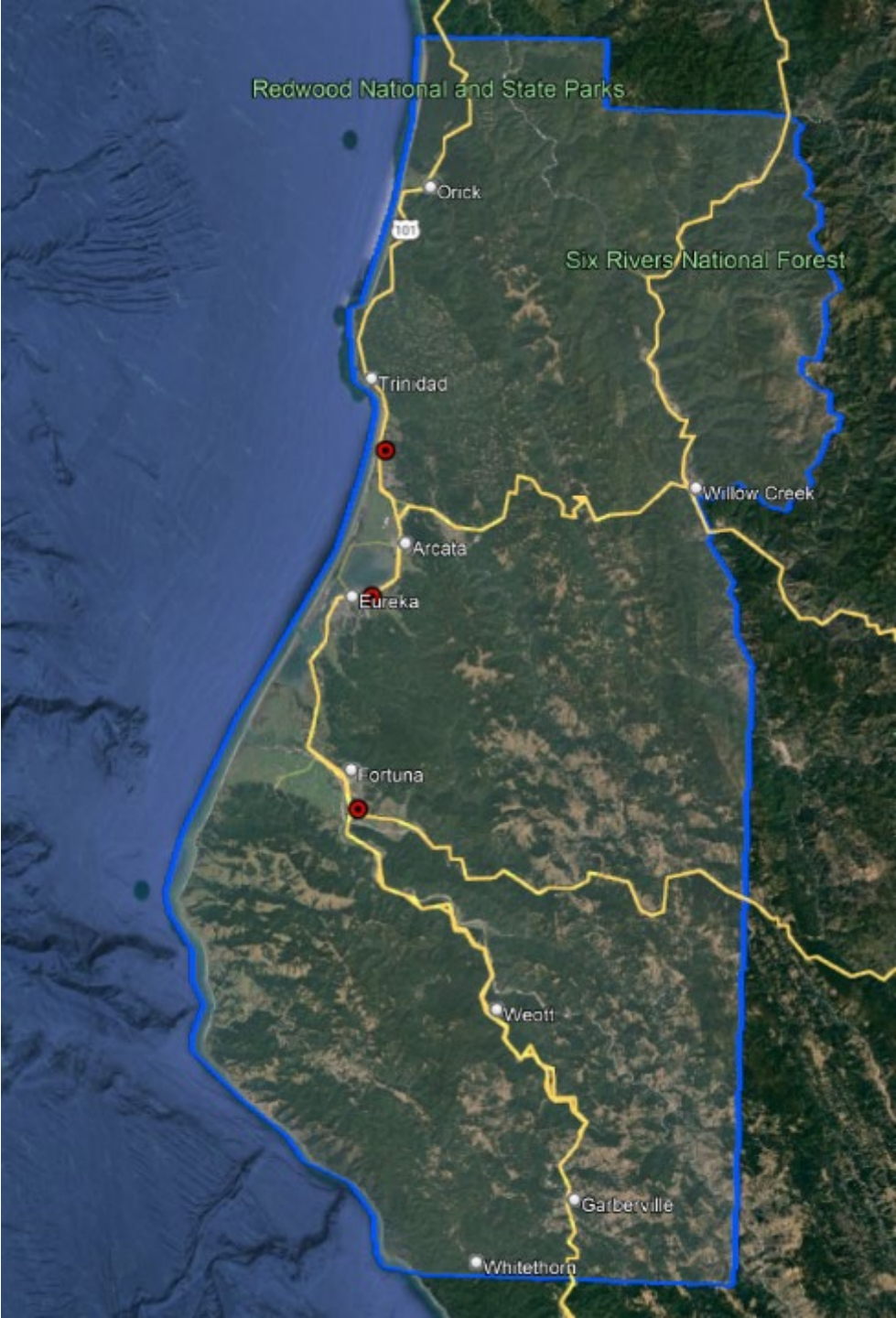
Water, Wastewater & Community Services Districts



Hospitals



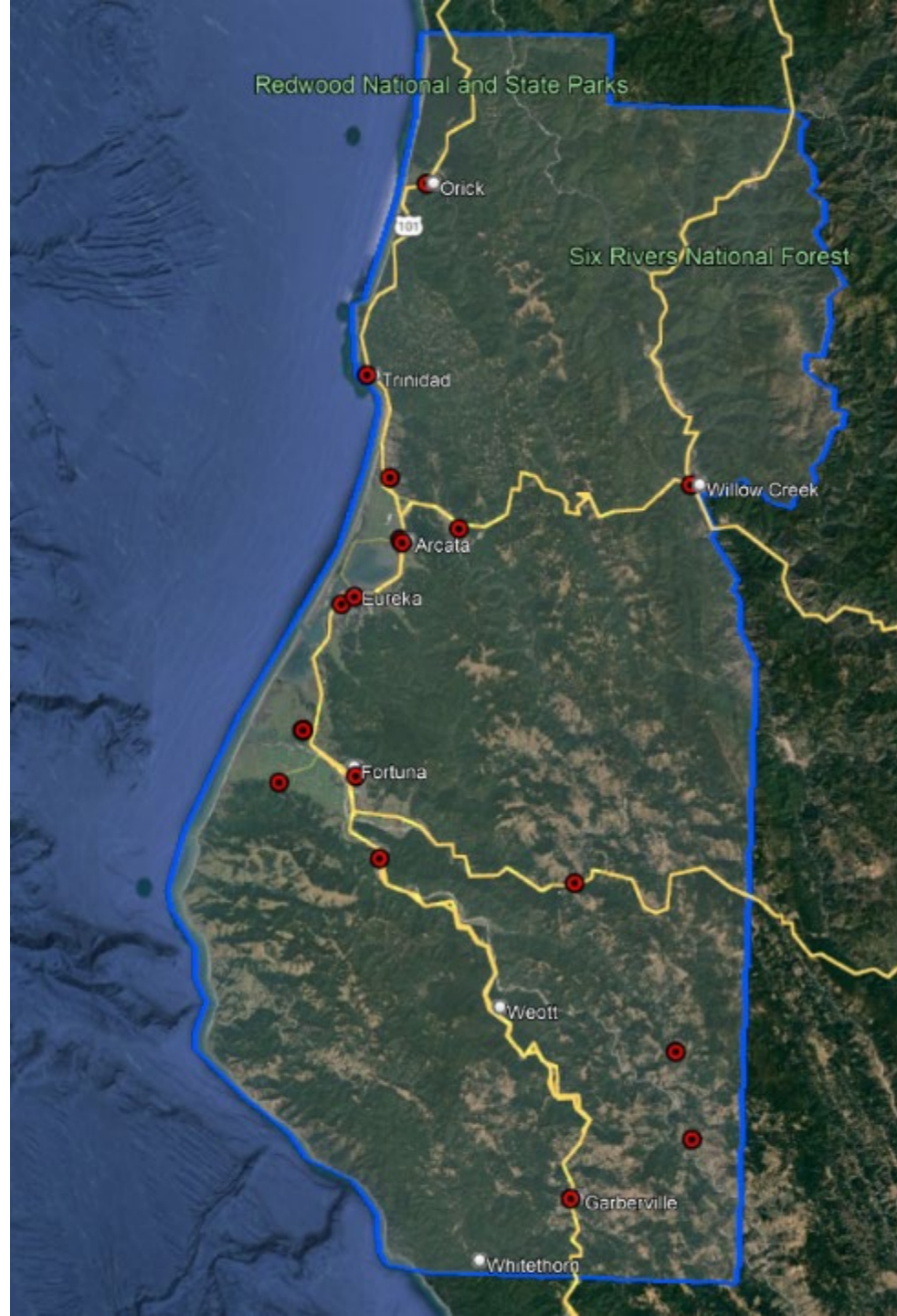
Airports



Community Centers



Food for People Food Bank Network



Discussion Questions



1. What facilities are missing from the list?
2. Who are the key stakeholders related to the list?
3. Potential match fund resources?



STAFF REPORT Agenda Item # 7

AGENDA DATE:	September 12, 2023
TO:	RCEA Community Advisory Committee
PREPARED BY:	Matthew Marshall, Executive Director
SUBJECT:	RePower Humboldt Energy Strategic Plan Update

BACKGROUND

Following approximately nine months of analysis and gathering public input, in December of 2019 the RCEA Board adopted an update to the RePower Humboldt Strategic Plan, RCEA's comprehensive action plan for energy. The plan establishes goals and strategies to guide RCEA's work over the 2020-2030 period, and is available online at:

<https://redwoodenergy.org/wp-content/uploads/2020/06/RePower-2019-Update-FINAL-.pdf>

SUMMARY

Staff intends to provide RePower Humboldt Plan updates every six months to keep the Board and Community Advisory Committee informed on implementation progress. At the meeting staff will provide a presentation on the current status of plan implementation and related activities. This will include updates on the four focus areas of the plan:

1. Regional Planning and Coordination
2. Integrated Demand Side Management
3. Low-Carbon Transportation
4. Energy Generation and Utility Services.

STAFF RECOMMENDATION

N/A – Information only.

ATTACHMENTS

Presentation slides will be shared at this meeting.



RePower Humboldt **Strategic Plan Introduction** September 2023



RCEA's RePower Humboldt Strategic Plan

Updated December 2019 – 4 focus areas:



**Regional
Planning &
Coordination**



**Integrated
Demand Side
Management**



**Low-Carbon
Transportation**



**Energy
Generation &
Utility Services**



**Regional
Planning &
Coordination**

Main goals:

- Achieve net-zero greenhouse gas emissions county-wide by 2030
- Establish Humboldt County as energy secure community by 2030: local capabilities/infrastructure to address energy emergencies and disruptions
- Build the clean energy sector as a cornerstone of the local economy: innovation, R&D, business development

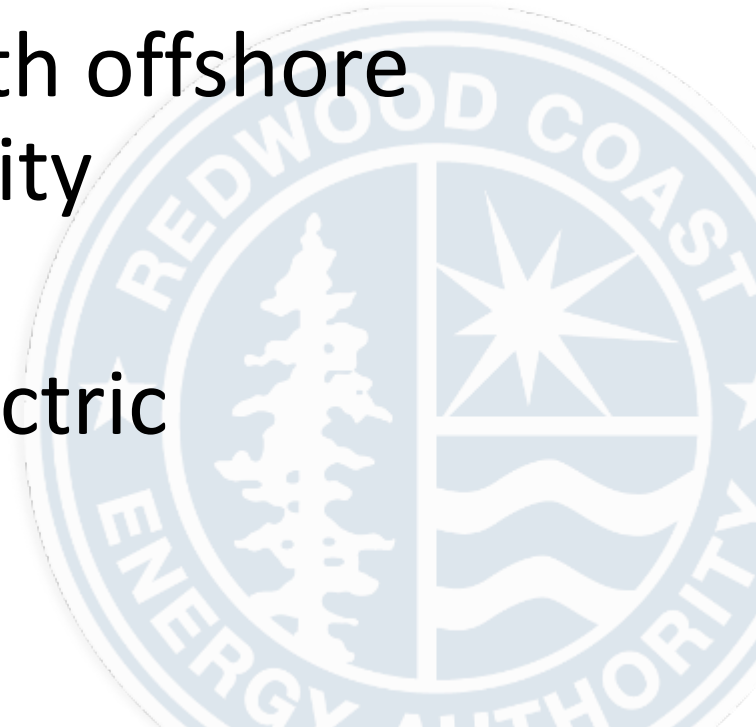




**Regional
Planning &
Coordination**

Current activities:

- Continuing work with County and Cities on regional climate action plan
- Pursuing grant funding for energy resilience planning and infrastructure
- With CORE Hub, engaging with offshore wind developers on community benefits strategies
- First round of Humboldt's Electric Future planning process





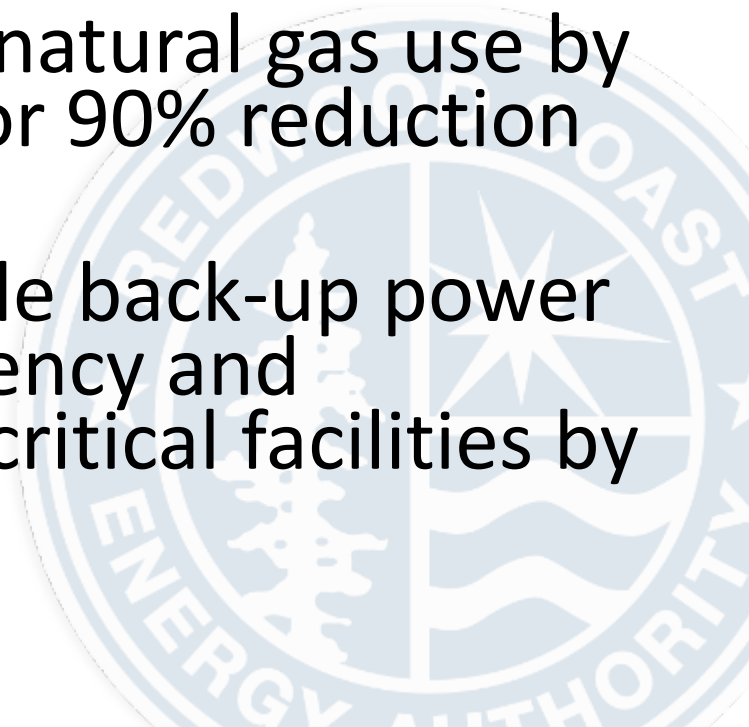
**Integrated
Demand Side
Management**

AKA:

**Customer
Energy
Solutions**

Main goals:

- Support the wide-spread installation of customer solar energy systems to reach 30MW of customer solar installed by 2025 and 50MW by 2030.
- Provide energy efficiency and conservation services to every household and business in the county by 2030.
- Implement programs to reduce natural gas use by 20% by 2030 with a trajectory for 90% reduction by 2050.
- Deploy microgrids and renewable back-up power systems to provide energy resiliency and emergency energy supply at all critical facilities by 2030.





**Integrated
Demand Side
Management**

AKA:

**Customer
Energy
Solutions**

Current activities

- In June wrapped up \$1.9M CPUC-funded efficiency program; RCEA Board approved funding to continue programs in July-Dec 2023 gap.
- Local Government Partnership with PG&E to provide customers with technical assistance, assessments, and program referrals; help public agencies secure and manage outside funding for energy projects. \$1M, 2.5-year continuation began in July.
- Rural Regional Energy Network funding approved by the CPUC.



**Integrated
Demand Side
Management**

AKA:

**Customer
Energy
Solutions**

Rural “Regional Energy Network” (Rural REN)

- Approved for launch in Jan 2024
- \$84.2 million for 2024-27
- Preliminary authorization of \$93.2 million for 2028-31

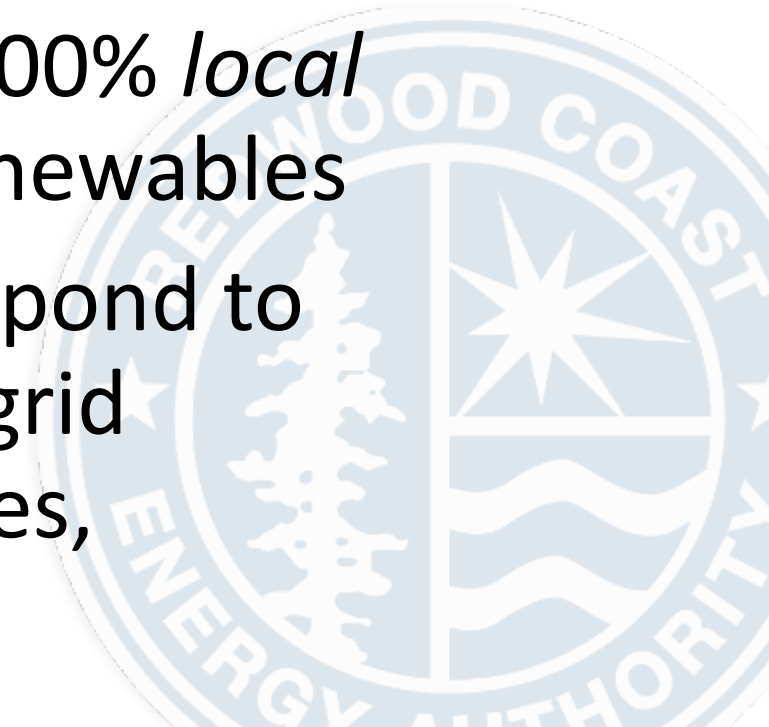




Energy
Generation &
Utility Services

Main goals:

- By 2025, 100% of RCEA power mix will be from renewable sources
- By 2030 Humboldt will be a net exporter of renewable electricity
- By 2030, power mix will be 100% *local* net-zero-carbon-emission renewables
- Humboldt County able to respond to electric disruptions through grid modernization, local resources, microgrids

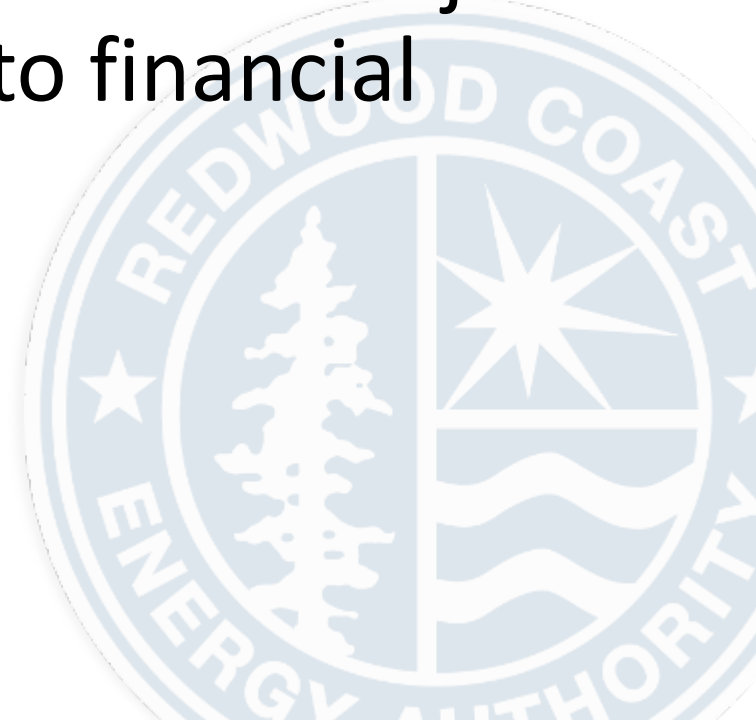




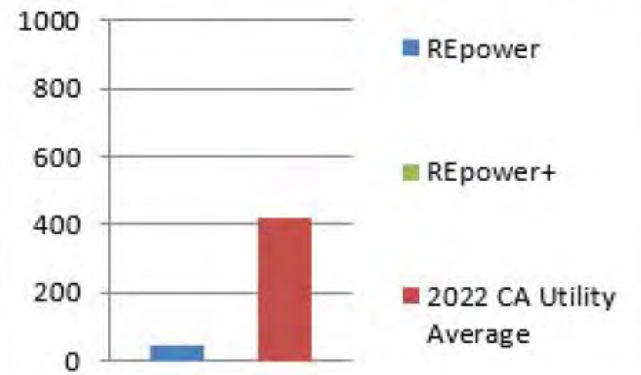
**Energy
Generation &
Utility Services**

Current activities:

- New solicitation for additional projects open
- Solar and storage projects in the pipeline progressing, but suffering from supply-chain constraints -- 100 MW Sandrini Solar Project delays particularly impactful to financial outlook



2022 Power
Content
Label post
card on its
way to
customers
soon

2022 POWER CONTENT LABEL						
Redwood Coast Energy Authority						
Redwoodenergy.org						
Greenhouse Gas Emissions Intensity (lbs CO ₂ e/MWh)			Energy Resources	REpower	REpower+	2022 CA Power Mix
REpower	REpower+	2022 CA Utility Average	Eligible Renewable ¹	50.0%	100.0%	35.8%
49	0	422	Biomass & Biowaste	20.4%	0.0%	2.1%
			Geothermal	0.0%	0.0%	4.7%
			Eligible Hydroelectric	1.0%	33.3%	1.1%
			Solar	21.5%	33.3%	17.0%
			Wind	7.1%	33.3%	10.8%
			Coal	0.0%	0.0%	2.1%
			Large Hydroelectric	45.0%	0.0%	9.2%
			Natural Gas	0.0%	0.0%	36.4%
			Nuclear	0.0%	0.0%	9.2%
			Other	0.0%	0.0%	0.1%
			Unspecified Power ²	5.0%	0.0%	7.1%
			TOTAL	100.0%	100.0%	100.0%
Percentage of Retail Sales Covered by Retired Unbundled RECs ³ :				0%	0%	
¹ The eligible renewable percentage above does not reflect RPS compliance, which is determined using a different methodology.						
² Unspecified power is electricity that has been purchased through open market transactions and is not traceable to a specific generation source.						
³ Renewable energy credits (RECs) are tracking instruments issued for renewable generation. Unbundled renewable energy credits (RECs) represent renewable generation that was not delivered to serve retail sales. Unbundled RECs are not reflected in the power mix or GHG emissions intensities above.						
For specific information about this electricity portfolio, contact:			Redwood Coast Energy Authority (707) 279-1700			
For general information about the Power Content Label, visit:			https://www.energy.ca.gov/programs-and-topics/programs/power-source-disclosure-program			

Sandrini 100MW Solar Project status photos:







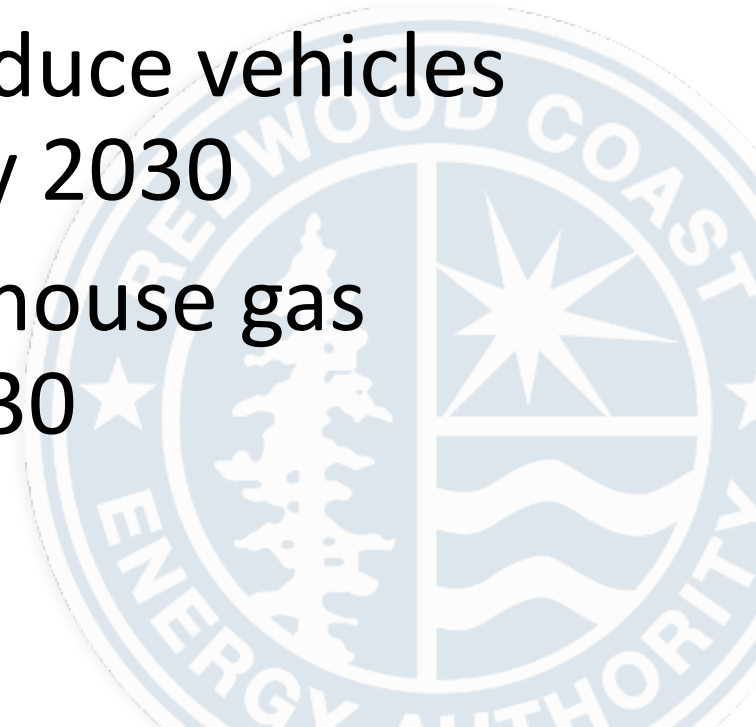




**Low-Carbon
Transportation**

Main goals:

- Reach 6,000+ EVs in Humboldt by 2025
Reach 22,000 EVs by 2030
- Develop EV charging infrastructure to support EV targets
- With other public entities, reduce vehicles miles traveled at least 25% by 2030
- Reduce transportation greenhouse gas emissions by over 65% by 2030

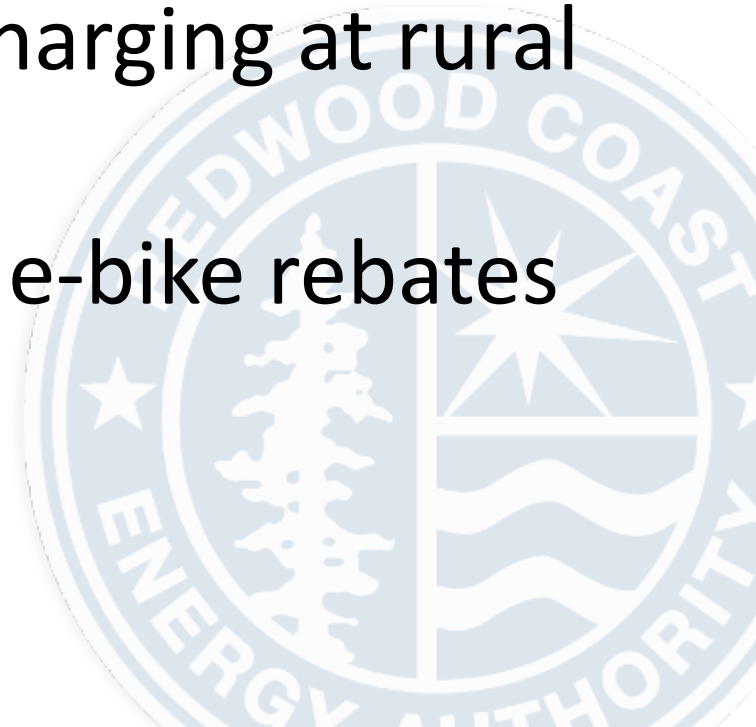




**Low-Carbon
Transportation**

Current activities:

- Wrapping up \$200k CA Energy Commission (CEC) grant to develop blueprint for medium-duty/heavy-duty fleet conversions and fueling infrastructure
- \$700k CEC grant to install EV charging at rural community service centers
- Launching soon: new round of e-bike rebates



RCEA E-Bike Voucher Program 2023



Image Source: CALBIKE

2020 E-Bike Rebate Program

\$41,500

PROGRAM GOAL:

REDUCE VMT
BY
ACCELERATING
E-BIKE PURCHASES
IN
HUMBOLDT COUNTY

REBATE PROGRAM

- 83 rebates issued in 3.5 weeks
 - Arcata, Eureka & McKinleyville = 81% of rebates
- \$500 rebate / CCE household
- Internet and local bike shop sales
- Non-sport e-bike models only
- No income eligibility requirement

UC Davis (2023)

“Impacts of E-bike Ownership on Travel”

Key Findings:

1. E-Bike use for transport increased in first 2 months but...
 - Mode shift not sustained at 1yr
 - However, overall car trips decrease over long run
2. E-Bikes replace occasional personal vehicle trips
 - Recreational, shopping/errands, social outings
 - <10% of participants replace daily car trips
3. As income increases, car trip replacement decreases
 - Lower-income participants replaced car trips more regularly
4. E-Bike useful in areas underserved by public transportation

2018 National Survey of E-Bike Riders

- 1,796 respondents
 - Predominantly: white, male, highly educated, and in good health
- Reasons for E-Bike purchase:
 - Replacing car trips
 - Riding with less effort
- E-Bike use:
 - Average 26 miles / week
 - Average 9.3 miles / trip
- Common repairs:
 - Electronics / display (37.5%)
 - Battery (28%)
 - Motor (21%)



Denver E-Bike Program Insights

- E-Bike Use:
 - 71% reported using gas vehicles less often after purchasing E-Bike
 - Average 26 miles / week
 - Average 3.3 miles / trip
 - Income-qualified residents used their E-Bikes 50% more than standard recipients
- Rocky Mountain Institute (RMI) Analysis:
 - E-Bike ownership cost:
 - 40% less to operate than EVs
 - 75% less than ICE vehicles
 - E-Bike emissions:
 - 3% of CO₂e as compared to EVs
 - 1% of CO₂e as compared to ICE vehicles



Image Source: [gazellebikes.com](https://www.gazellebikes.com)

Bike Shop Interviews

1. Revolution
 2. Adventure's Edge
 3. Pacific Outfitters
 4. Humboldt Hy-cycles
 5. N.E.R.D. Scooters
 6. Sport & Cycle
 7. Redwood Cycles
- Common e-bike repairs
 - Repair challenges
 - E-bike durability factors
 - Customer service / training
 - 2020 Rebate program feedback

Bike Shop Interviews

Common Repairs:

- Brakes, brake pads, flat tires
- Wiring / controller / fuses / display / charger

Repair Challenges:

- Low-quality components
- Lack of support / parts for bikes purchased online
- Inaccessible / difficult to remove components
- Batteries catching fire
- Weight of e-bikes (~80lbs.)
- Non-standard wheel sizes



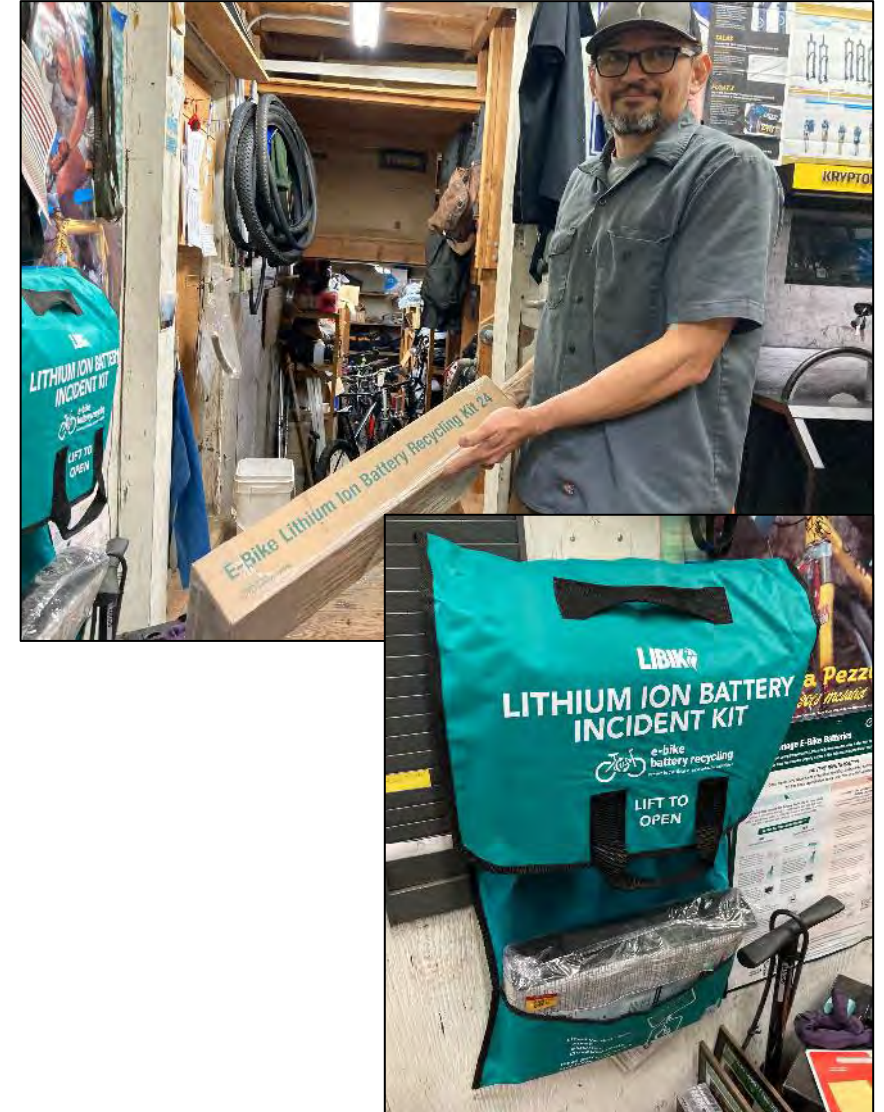
Bike Shop Interviews

E-Bike Durability:

- “Mid-drive” bikes more durable than hub-drive
- High quality chains, derailleurs, controllers etc.

Customer Service / Training:

- Assistance selecting type of E-Bike to suit use
- Proper fit
- How to operate E-Bike
- How to charge battery safely
- Basic maintenance / what to look for



Bike Shop Interviews

Rebate Program Feedback:

- Incentivize higher-quality E-Bike purchases
 - Operating costs are HIGH for low-price E-Bikes (expensive repairs)
 - Lower-end E-Bikes use cheaper components that are less durable & more difficult to repair (sometimes impossible)



CARB E-Bike Voucher Program

PROGRAM DETAILS:

- Point-of-sale Voucher
- Brick-and-mortar bike shops only
- Apply through online portal
- Must have operable pedals
- No retro-active vouchers
- Must own E-Bike for 1-year



CARB E-Bike Voucher Program

PROGRAM DETAILS:

- \$1,000 for income-eligible CA residents
- Eligibility = 300% Federal Poverty Level (FPL)
- Additional \$250 for:
 - Annual household income at 225% FPL
 - Reside in Low-Income Community (LIC)





Search by location or tract



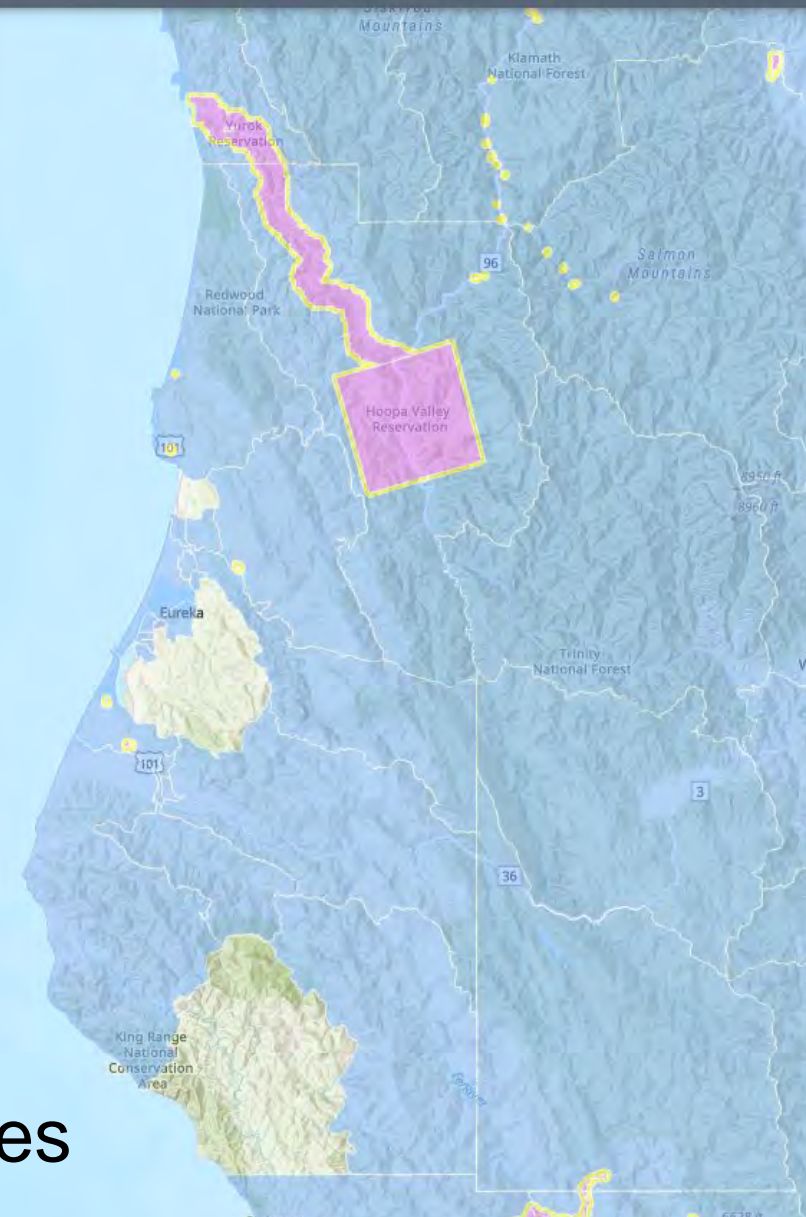
Map Legend

Priority Populations CES4 2022

PriorityPopulationsCES4

- Disadvantaged Communities
- Disadvantaged and Low-income Communities
- Low-income Communities
- Low-income Communities within 1/2 mile of Disadvantaged Communities
- Low-income Households within 1/2 mile of Disadvantaged Communities

* Low-income households statewide are also considered a priority population for the purposes of California Climate Investments



AB 1550 Low-Income Communities

Updated RCEA 2023 E-Bike Voucher

- Q3 target launch date
- 75% of funds reserved for income-qualified residents
 - Income eligibility:
 - Receipt of CA E-Bike voucher
 - CARE/FERA enrollment
- Valid at brick-and-mortar bike shops only
- Eligible E-Bikes:
 - Non-sport, cargo, e-tricycles, and adaptive
 - Must have operable pedals
- \$4,000 reserved for Adaptive E-Bikes (4 vouchers)



Updated RCEA 2023 E-Bike Voucher



Image Source: [Discerningcyclist.com](https://discerningcyclist.com)

Voucher Levels:

- \$150 voucher for any CCE customer
- \$350 voucher for cargo E-Bikes
- \$500 voucher for income-qualified residents
- \$1,000 voucher for Adaptive E-Bikes

AGREEMENT WITH PARTICIPATING BIKE SHOPS

- Provide training on E-Bike use & battery charging
- Maintain e-bikes sold under voucher program
- Free 6-month or 100mile tune-up
- 1-year warranty
- UL listed batteries, chargers, motors
- Provide RCEA with voucher & itemized receipt for reimbursement



Image Source: Liv-cycling.com



Image Source: CALBIKE

Income Qualification

CA E-bike Voucher Levels & Annual Household Income Qualifiers		
# Persons in Household	\$1,000 E-bike Voucher	\$1,200 E-bike Voucher
	300% FPL	225% FPL
1	\$ 43,740	\$ 32,805
2	\$ 59,160	\$ 44,370
3	\$ 74,580	\$ 55,935
4	\$ 90,000	\$ 67,500
5	\$ 105,420	\$ 79,065
6	\$ 120,840	\$ 90,630
7	\$ 136,260	\$ 102,195
8	\$ 151,680	\$ 113,760
*FPL = Federal Poverty Level		



**COMMUNITY ADVISORY COMMITTEE
STAFF REPORT
Agenda Item # 8**

AGENDA DATE:	September 12, 2023
TO:	RCEA Community Advisory Committee
PREPARED BY:	Matthew Marshall, RCEA Executive Director
SUBJECT:	CAC Annual Report

SUMMARY

At the July 2021 Community Advisory Committee meeting, the CAC agreed to report the group's past year accomplishments and upcoming year goals annually to the RCEA Board of Directors. The process aims to organize the body's work within the framework of the agency's work goals and help the Board thoughtfully utilize the committee as a resource to support Board decision-making and agency public engagement efforts.

Staff is requesting volunteers for an ad hoc 2024 Annual Report Subcommittee to assist staff in reviewing and editing the report. The report will be brought back to the full CAC for approval in January, prior to presentation to the Board in February 2024. Staff will also bring forward the CAC work goals at this time to evaluate and adjust the 2024 CAC work goals if needed.

STAFF RECOMMENDATION

Accept volunteers for a CAC Ad Hoc 2024 Annual Report Subcommittee

ATTACHMENTS

None

This page
intentionally
left blank.