



REDWOOD COAST EnergyAuthority



Community **RE**port

RePowering Humboldt with Renewable Energy - 2021-22 Annual Report

RCEA's Redwood Coast Airport Microgrid now supplies energy to our local grid. We expect it to be fully operational in March. Watch for our Grand Opening celebration in April.

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Board of Directors

City of Arcata	Sarah Schaefer
City of Blue Lake	Chris Curran
City of Eureka	Scott Bauer
City of Ferndale	Stephen Avis (Vice Chair)
City of Fortuna	Mike Losey
City of Rio Dell	Frank Wilson
City of Trinidad	Dave Grover
County of Humboldt	Mike Wilson
Humboldt Bay Municipal Water District	Sheri Woo (Board Chair)

The Redwood Coast Energy Authority (RCEA) is a local government joint powers agency that was founded in 2003 whose members include the County of Humboldt; the Cities of Arcata, Blue Lake, Eureka, Ferndale, Fortuna, Rio Dell, and Trinidad; and the Humboldt Bay Municipal Water District.

RCEA is governed by a **Board of Directors** made up of elected officials appointed by the governing bodies of our member agencies. We wish to extend our **gratitude** to both our current and past Board members, as well as to the **Community Advisory Committee** members who advise them, for the time and energy they put into making RCEA as resilient and strong as it is.

RCEA's Board and CAC meetings are open to the public and community members are encouraged to attend and participate. Communities in RCEA's service area — not private shareholders — control their own energy choices. Meeting notices and agenda packets are available through the RCEA website, www.RedwoodEnergy.org.



“Thank you Humboldt residents for supporting your Community Choice Energy program, which allows us to build renewable energy projects that slow climate change. Energy systems are complex and technical, and together we've learned how to impact and even disrupt the old ways of thinking. RePower to the People!”

Sheri Woo

RCEA 2021 Board Chair, Humboldt Bay Municipal Water District

The purpose of the Redwood Coast Energy Authority is to develop and implement sustainable energy initiatives that reduce energy demand, increase energy efficiency, and advance the use of clean, efficient and renewable resources available in the region.



REDWOOD COAST
Energy Authority

Community Advisory Committee

City of Arcata	Norman Bell
City of Blue Lake	Kit Mann
City of Eureka	Catherine Gurin
City of Ferndale	Dennis Leonardi (Vice Chair)
City of Fortuna	Elizabeth Burks
City of Rio Dell	Roger Hess
City of Trinidad	Richard Johnson
Humboldt Bay Municipal Water District	Ethan Lawton
County 1	Luna Latimer
2	Christopher Honar
3	(Vacancy)
At Large 1	Jerome Qiriazzi (Carman)
2	Colin Fiske
3	Larry Goldberg (Chair)
4	Pam Halstead

RCEA's Board of Directors established a Community Advisory Committee (CAC) to support RCEA public engagement efforts and to provide decision-making support to the RCEA Board.

The CAC can have up to 15 members. Eleven are nominated by RCEA Board members and four are selected through an open application process. All members are confirmed by the full RCEA Board. CAC members serve two-year terms and all members live in Humboldt County.

“I'm proud of the work the Community Advisory Committee accomplished in the past year. We represent the citizen's voice of Humboldt in energy policy with RCEA.”

Larry Goldberg

Chair of the Community Advisory Committee





A Message from the Executive Director



The ongoing pandemic made 2021 another roller coaster year, but that didn't stop RCEA and our community partners from making significant strides toward building a sustainable energy future for Humboldt County.

Completing the Redwood Coast Airport Microgrid construction was a major milestone for our community, California and the whole clean energy industry. This cutting-edge project will provide robust, renewable energy resilience and enhanced emergency response capabilities for the County airport and the U.S. Coast Guard Air Station and will be replicated across California. The Japanese government and utility industry even sent representatives to learn how to reproduce our innovation in their energy-resilience efforts.

Our Customer Energy Solutions offerings are expanding decarbonization support for building electrification, electric vehicles, energy storage, energy efficiency and solar energy. Our new Community Grid Program will help customers install renewable backup power at their home or business and provide an incentive to be part of a "virtual power plant" to improve the power grid's reliability and cost-effectiveness. Our public agency and critical community facility partners can continue to count on our support to deploy renewable energy resilience and efficiency systems.

Here's what's coming up in 2022:

- Sandrini Solar Project construction begins. RCEA is procuring 100 MW of this project's output, enough renewable electricity to power over 46,000 homes.
- The federal lease auction for offshore wind development areas off the Humboldt coast is expected this fall. Offshore wind planning work will ramp up after the auction.
- Stay tuned for updates on numerous solar energy and battery storage projects.

We offer our sincere thanks to all our customers and organizational partners – we couldn't do this work without your ongoing support and commitment to our community's renewable and resilient energy future."

Matthew Marshall

RCEA Executive Director

REsources for Your Home or Business

RCEA's Customer Energy Solutions help our customers switch from fossil fuels to clean energy with financial resources, technical support and education.

REducing Greenhouse Gas Emissions

RCEA offers a big bang for your energy buck when it comes to reducing GHGs. Our electricity customers will be powered by 100% renewable energy by 2030. Their energy dollars are invested right back into Humboldt County through building electrification and vehicle fuel switching programs.

REsponding to Community Needs

RCEA engages with you, our customers, to set priorities and develop programs that are valuable to you. You've told us we need affordable, clean, non-fossil fuel backup power for prolonged power shutoffs and we hear you. **RCEA is committed to building a greater level of energy resilience for Humboldt County.**



We first started using RE in

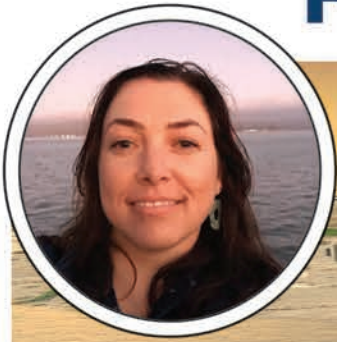
REpower Humboldt

in 2013 when RCEA and partner jurisdictions created a comprehensive energy plan for our region. We updated this bold strategic plan with help from the community in 2019.

REenvisioning

REnewable energy!

Regional Planning and Coordination



Aker Offshore Wind's conceptual illustration of what offshore wind support infrastructure could look like on the Samoa Peninsula in Humboldt Bay Harbor.

“Coordinating the long-term management of our energy resources is what drove local leaders to form the Redwood Coast Energy Authority in the first place. Nineteen years later the drivers behind RCEA's goals are the same, albeit intensified as climate change worsens, but the methods are ever evolving. In 2022 we are moving closer to bigger projects that require bigger collaboration: new local generation projects must satisfy diverse community values; associated ancillaries will require growth in new directions; and the unpredictable will test our resolve to work together. I'm confident that our increasingly discerning community is up for these challenges. Onward!”

Lori Biondini

Director of Business Planning and Finance

GOALS for Regional Planning and Coordination

- Achieve net-zero greenhouse gas emissions county-wide by 2030.
- By 2030 Humboldt County will be energy-secure and can affordably meet its local energy needs, including during emergencies and disruptions, with local renewable resources.
- Make clean energy efforts a cornerstone of our local economy using strategies that include innovation, research and development, local energy-related business development, and establishing Humboldt Bay as the primary West Coast hub for the offshore wind energy industry.

Equity, Racial Justice & Diversity

RCEA recognizes that access to energy, energy efficiency, freedom from pollution and a place in the renewable energy transition intimately affect economic and personal health outcomes. RCEA strives to more equitably serve everyone in Humboldt County, and to that end, RCEA adopted a Racial Justice Plan and is actively committed to the following:

Diversity & Inclusion

Seek ways to ensure diversity and inclusion in hiring and promotion, observing the legal limitations on such practices set by state and national statutes.

Local Native Nations

Increase engagement with local Native nations and work directly with them on a long-term plan for meaningful collaboration.

Jobs

Add equity and inclusion activities to new job descriptions, future revisions of existing job descriptions, and staff work plans.

Programs & Projects

Explicitly address inclusion in selection, design, and implementation of RCEA's programs and projects, and in our public outreach and education materials to ensure that communities and organizations of Indigenous, Black, Latinx, Asian, and other people of color are optimally served.

Supplier Diversity

RCEA submitted our inaugural Supplier Diversity Report in 2021 which lays out our plans to increase procurement from a more diverse set of suppliers in line with CPUC guidance. This reflects RCEA's commitment to achieving greater economic and racial equity in Humboldt County through our day-to-day operations.



COREHub

Redwood Region Climate & Community Resilience (CORE) Hub

RCEA participated in the creation of the CORE Hub this year, a community organization focused on helping solve the climate emergency. The founding members of the CORE Hub include representatives from the Schatz Energy Research Center; the Blue Lake Rancheria, a sovereign Tribal Nation; the Humboldt Area and Wild Rivers Community Foundation; and RCEA, along with local and state leaders.

The vision of CORE is that the Redwood Region will become the first proven carbon-sequestering rural area in the U.S. by 2030.

The COREHub wants to work with our community to build energy resiliency, find innovative solutions that provide the greatest benefits to those who live here, and make sure our voices are heard when energy-related conversations need to be had. CORE Hub hopes to do this through community engagement, by prioritizing equity, and while providing technical assistance.

Climate Action Plan

Since 2018, RCEA has provided technical and project management support to the County and the seven cities to develop the Humboldt Regional Climate Action Plan (CAP).

The Humboldt Regional Climate Action Plan Environmental Review Draft will soon be released for public review and comment. The CAP is the culmination of a multi-jurisdictional effort led by the County of Humboldt in collaboration with all incorporated cities including Arcata, Blue Lake, Eureka, Ferndale, Fortuna, Rio Dell, and Trinidad.

While subject to change during the public review process, the draft CAP is designed to be implemented between 2022 and 2030 to reduce county-wide greenhouse gas (GHG) emissions to 40% below 1990 levels by 2030 and make progress toward the State's goal of zero net emissions by 2045. Key measures in the CAP that achieve the most local GHG emissions reductions by the year 2030 include replacing gas vehicles with electric vehicles, and replacing gas and propane residential and commercial heating systems with electric systems.

RCEA has launched the 2020 GHG inventory process which will be key to tracking progress toward the CAP's 2030 target.

The Schatz Energy Research Center

HSU's Schatz Energy Research Center is internationally recognized for its innovation and expertise in renewable energy research and development. They have played a critical role in the creation of our Redwood Coast Airport Microgrid, and are leading an offshore wind research program for the North Coast. Thank you for bringing Humboldt County to the cutting edge of clean energy solutions.

Community Choice Energy



“It’s an exciting time to be working in the energy field and to be operating RCEA’s Community Choice Energy Program. This spring RCEA will celebrate its fifth anniversary as Humboldt County’s default electric provider, **serving over 93% of our community’s electricity users**. We were one of the earlier CCE programs to launch in the state, and the first one serving a rural population. This came with many challenges and a steep learning curve for our team, but I’m glad to say this model for electricity service, in which our public agency procures the power and our partner PG&E delivers it, works well for Humboldt.

The community choice energy model has enjoyed amazing growth in California in recent years, with **23 programs now serving over 11 million customers in more than 200 communities**. With this growth comes new responsibility. The California Public Utilities Commission (CPUC) is now looking to community choice energy program operators like RCEA to help ensure electric reliability as the state makes its needed transition to renewable energy and retires its old fossil fuel and nuclear plants. In coordination with the CPUC and our sister community choice programs, RCEA is contracting with energy project developers locally and across the state to strategically deploy **the right types and sizes of clean energy plants in the right locations** to make sure the lights stay on for all power users, and at affordable prices.

This new regional role for RCEA has not made us lose sight of our local goals. We are continuing to build a portfolio of **local clean energy resources**, with the **solar-powered microgrid at our county airport** coming online in December as our most recent and exciting milestone. We continue to solicit and contract for new projects that will advance RCEA toward its Board-adopted goals of **100% clean and renewable power by 2025, and all of it sourced locally by 2030**.

The next major chapter in our local energy development story will be **offshore wind**. The Humboldt coast has emerged as one of the most promising areas on the West Coast for floating wind platforms, and RCEA is in the final stages of building a **public-private partnership** to ensure local projects **maximize community control and benefits**. Humboldt’s offshore wind potential is much greater than our local electricity appetite, but we are planning for a portion of the resource to make up a sizable slice of the energy portfolio that will serve our local customers.

Thank you Humboldt County for putting your faith in RCEA and community choice energy as the way forward to clean, reliable, and affordable electricity for all of us.”

Richard Engel

Director of Power Resources

GOALS for Community Choice Energy

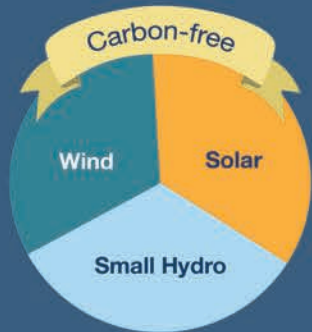
- **By 2025** 100% of RCEA’s power mix will be from solar, wind, biomass, small hydroelectric, geothermal, and existing large hydroelectric.
- **By 2030** Humboldt County will be a net exporter of renewable electricity and RCEA’s power mix will consist of 100% local, net zero carbon emission renewable sources.
- Ensure our customers receive high-quality service related to enrollment, rates, billing, and customer programs.

Over
62,000
customers
served

Over **93%**
of Humboldt County homes
and businesses receive
electricity from RCEA

REpower
RCEA’s default
electricity service
is at least
38%
renewable

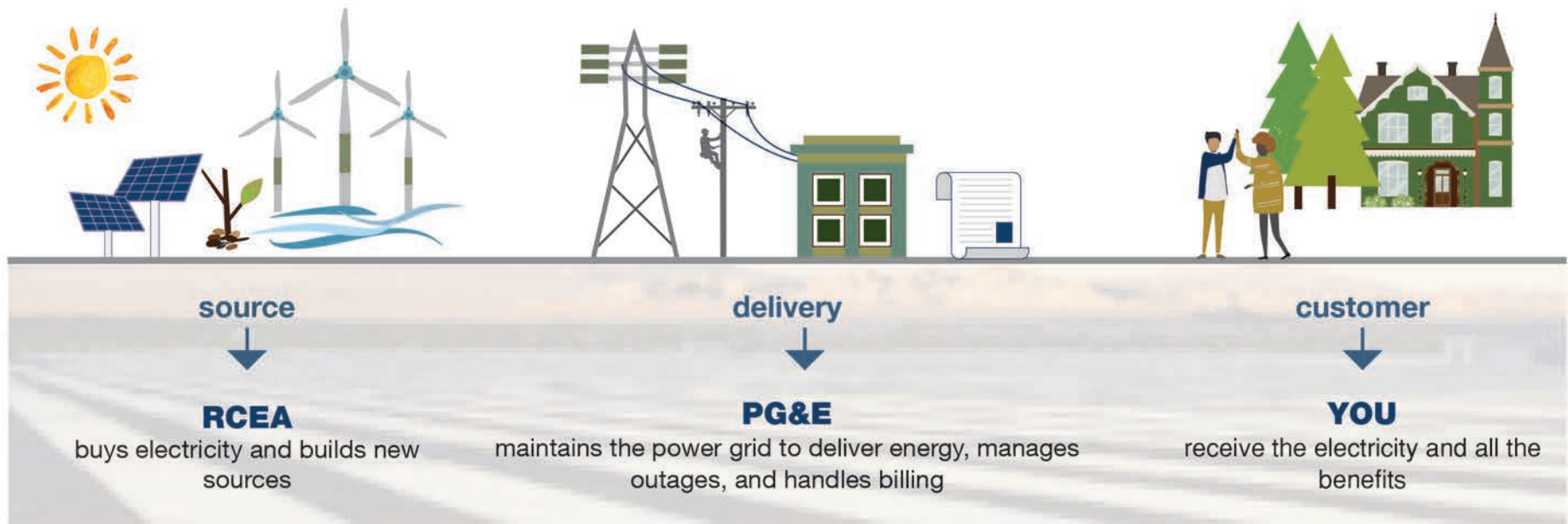
REpower+
is RCEA’s
100%
renewable + carbon-free
electricity option



How Does it Work?

RCEA administers Humboldt County's Community Choice Energy program. The program is designed by your city councils and county supervisors to offer you lower rates on electricity, and to keep the benefits and control right here in the County.

Simply put, we're buying greener, more locally-produced electricity and feeding it into the grid. And we're working in partnership with PG&E, who continues to deliver electricity and maintain the lines as they always have. Community Choice Energy, sometimes known as Community Choice Aggregation, is a great way to bring needed economic development to Humboldt County, while actually costing you less.



Is RCEA an Extra Charge on Your Bill?

NO. RCEA's **generation** charges replace PG&E's **generation** charges on your monthly bill. PG&E itemizes how much they *would have* charged you for generation if you were still with them, and then credits that amount back to you on page 3. The credit is more than what RCEA is charging you, so you actually save a bit of money.

	<small>sample charges</small>
• Current PG&E Electric Delivery Charges	➔ \$14.00 - DELIVERY of electricity, not generation
• Redwood Coast Energy Authority Electric Generation Charges	➔ \$7.00 - ELECTRICITY ONLY - not a duplicate charge
• Current Gas Charges	➔ \$22.00 - RCEA is not involved with gas

What Are the Benefits?



Economics

RCEA's community choice program costs a little less than you would be paying to PG&E, and all of PG&E's rate discount options remain in place for income-qualifying households. If you're a solar customer, we buy back your excess energy at a better rate.



Choice

RCEA is accountable to our community and our customers. Whether it's the type of energy we are buying, the cost to the customer, energy options offered, program development, and everything in between, our community is helping make those choices.



Environment

Community Choice Energy programs are having a big impact on reducing greenhouse gas emissions throughout the state. California is taking bold steps toward addressing climate change, and community choice is one of Humboldt County's most powerful tools in that effort.



Community

Revenues from community choice programs are reinvested into their communities rather than going to utility company shareholders. That means local jobs, local projects and programs, building local solar arrays, and keeping energy dollars local.

RCEA's Renewable Energy Resources

Our goal is to continue to utilize the energy expertise that exists on the North Coast to develop sustainable, renewable, local energy sources and jobs. Power procured by RCEA through short- and long-term contracts is resold to Humboldt County ratepayers, and the revenues fuel community-driven energy choices.



Redwood Coast Airport Microgrid

In December 2021 the Redwood Coast Airport Microgrid reached a major milestone and officially began supplying power to the electric grid. The team is now making minor adjustments and expect the microgrid to be fully operational by March 2022. Congratulations to all that made this possible, including our Community Choice Energy customers!



Offshore Wind

Plans to bring offshore wind energy to Humboldt County have picked up speed in recent months after years of local discussions. The State of California and the Biden Administration announced that it will focus on what would be the first U.S. commercial-scale wind projects off the Pacific Coast, including in the waters off Humboldt County. The Bureau of Ocean Energy Management is expected to hold a lease auction in late summer 2022. This is a 100-150 MW floating offshore wind project that would be located approximately 25 miles from Eureka.



Cove Hydroelectric

RCEA has a 15-year contract with Snow Mountain Hydro for its Cove Hydropower Project, an existing, seasonal, run-of-the-river project in Shasta County. Small, low-impact hydro projects like Cove don't impound the creek with a dam like large-scale hydropower projects do.



Sandrini Solar Project

RCEA completed a 15-year power purchase agreement with EDP Renewables North America for the 100 MW Sandrini Sol 1 Solar Park in Kern County, CA. The project is expected to be operational in 2023 with construction anticipated to start in February 2022.



Tierra Buena Battery Energy Storage Project

RCEA signed an agreement with Ormat Technologies for 2.5 MW of resource adequacy (purchase of energy resources to ensure enough electricity to serve demand). This project is being constructed in Sutter County, CA, and is on track to be commercially operable in April 2022.



Feed-In Tariff

RCEA is fostering local renewable energy projects through our Feed-In Tariff, or "FIT" program. New renewable energy projects in Humboldt that are under 1 MW in size can apply to sell their output to RCEA through a 20-year fixed-price contract. So far, six FIT contracts have been signed, each for a 1 MW solar array. The Hatchery Road Solar Project in Blue Lake is anticipated to be commercially-operable in April 2023 and the North Coast Highway Solar Project is anticipated to be commercially-operable in October 2022.



Biomass

Local biomass power makes up approximately one-fourth of Redwood Coast Energy Authority's current electricity portfolio. We have a contract with Humboldt Sawmill Company in Scotia, which uses waste material from local sawmills to power their plant. We have an extended power purchase agreement with HSC through 2031.

For complete details visit [RedwoodEnergy.org/power-procurement](https://www.RedwoodEnergy.org/power-procurement).



The Redwood Coast Airport Microgrid

The phrase “Behind the Redwood Curtain” is a clue that business in Humboldt brings special challenges, and building a solar and battery storage system is no exception. Our Executive Director Matthew Marshall says that while we avoided the major blunder highlighted in the movie “The Princess Bride,” (never get involved in a land war in Asia), “But second only to that is building the first ever DC coupled, front-of-the-meter, multi-customer microgrid, in collaboration with a CCA and an investor owned utility, and then use USDA financing for the first CCA project as well as the first microgrid that they’ve ever financed, and they’re doing that at an airport in the middle of a global pandemic.”

The Redwood Coast Airport Microgrid project navigated these perils and started commercial operation in December 2021. During normal operation, the battery system is used to store solar power and then sell it into the wholesale market when it is most valuable. During outages and emergencies, the microgrid provides onsite electricity to sustain air transport activities and support regional emergency response.

Research and development projects are inherently risky, and this project had its share of adventures. I’m proud that the Redwood Coast Airport Microgrid not only made it to the finish line but starts a path for other projects. North Coast U.S. Rep. Jared Huffman stated, “We’ve got extreme heat, wind-driven wildfires, water shortages and increasingly we’re concerned about the condition of our roads, bridges and airports... This ingenious system will provide a blueprint for other microgrids around the state and around the country which is going to make it easier for other communities to do the same thing we’re doing here in Humboldt County.”

The microgrid also demonstrates the complementary nature of renewable energy and resilience for community planning. “This type of project will hopefully be a catalyst for the transition to clean energy and a more resilient and more robust energy system in the future,” says Matthew Marshall. “There doesn’t need to be a choice between reliability and decarbonization and renewables. We don’t need to compromise resilience. We can actually enhance resilience by transitioning off of fossil fuels to renewables.”

This project is possible because our Community Choice Energy customers support RCEA’s mission to invest our energy dollars locally rather than exporting them to distant shareholders. As each passing season demonstrates what we can expect from climate change, Humboldt shows how to be part of the solution and grow stronger in the process.

Dana Boudreau

RCEA Director of Infrastructure Planning and Operations



The microgrid includes roughly:

- seven acres of solar panels
- battery energy storage
- control systems

The battery system stores and releases electricity.

Control system manages routine and emergency operating modes.

Solar panels convert sunlight into electricity.



Customer Energy Solutions



“ RCEA's Customer Energy Solutions is a devoted team of **local energy professionals** dedicated to providing Humboldt County customers the best service possible. We will work with you to help identify solutions that best fit your needs and goals, whether it is bill savings, greater resilience, equipment upgrades, decarbonization...or all of the above.

We are constantly working to find **innovative** ways to increase our offerings, emphasizing all sectors and customer types. We are especially excited to highlight some of our work with local **public agencies**. By helping your local school, city office, fire station, or tribal office reduce their energy costs, become more resilient, and move toward greener energy, **we are helping them serve you better.**

This year we are offering more **direct-to-customer equipment rebates** to help you save money and make more efficient choices when you upgrade. We have a multitude of offerings for business customers to **help your bottom line**, including **no-cost consultations** to help create a roadmap toward a more efficient energy future.

Our goal is to **provide the best solution** to the customer, whether that ends up being one of our own programs or rebates, or connecting you with incentives offered by other providers.

Most recently we launched a **Contractor and Vendor Network** to connect customers with local contractors who are familiar with our incentives and can help you complete your project. Visit our webpage to see our current offerings, or better yet, complete our simple **Customer Interest Form** and connect with a trusted Energy Advisor. They are ready to help you choose what works best for you. We look forward to working with you to build a greener, more resilient energy future for Humboldt County.”

Stephen Kallmann

Director, Customer Energy Solutions

Southern Humboldt Unified School District is one of the many public agencies RCEA's Public Agency Solar Program serves, helping them secure a California Energy Commission loan for South Fork High's solar array project.

- \$1,049,000 loan
- 273 kW (DC) solar installation
- Estimated annual savings = \$89,000
- 100% of site electricity use offset
- 84% of overall site energy use offset



“ RCEA and Project Manager Mike Avcollie guided and communicated with us through our entire solar project. He gathered all the data and information needed to apply for a Prop 39 California Energy Commission loan, which convinced our school district to proceed with the project. He worked through all the red tape and kept things moving along. It was a rewarding process and I learned a lot.”

Karl Terrell

Retired M.O.T. Director and current Project Manager
Southern Humboldt Unified School District

GOALS for Customer Energy Solutions

- Make energy efficiency and conservation services available to every household and business in the county by 2030.
- Expand existing energy efficiency, conservation and electrification programs to achieve a 20% reduction in greenhouse gas emissions from use of fossil fuels in buildings by 2030, and reduce emissions from natural gas by 90% by 2050.

Public Agency Projects

RCEA helps Humboldt County's energy dollars go further by making our local public agencies more efficient and resilient.

City of Arcata
Arcata Elementary School District
Pacific Union School District
Redwood Preparatory Charter School
Coastal Grove Charter School
Laurel Tree Charter School
Six Rivers Charter School
Redwood Coast Montessori

No. Humboldt Union High School District

City of Eureka
Eureka City Schools
Humboldt Transit Authority
Humboldt Bay Harbor District
Pacific View Charter School
County of Humboldt
USPS

Wiyot Tribe
Loleta Union Elementary School District

City of Ferndale

Mattole Unified School District

Yurok Tribe

Orleans Fire Dept.

City of Trinidad
Westhaven Community Service District
Arcata/Eureka Airport
Fieldbrook Elementary School

Freshwater School
Cutten Elementary School District

Bear River Band of the Rohnerville Rancheria

Fortuna Union High School District

City of Rio Dell
Scotia Community Services District

South Fork High
So. Humboldt Unified School District

Services for our local agencies include:

Lighting and equipment upgrades
Energy assessments and reports
Assistance securing low-cost loans and grants
Renewable energy projects
On-site energy storage and resiliency
Electric vehicle charging infrastructure
HVAC and refrigeration upgrades
Building professional training and capacity building
...and more



REDWOOD COAST
Energy Authority

Solar Net Energy Metering

Generate your own electricity



\$341,870 2021 - \$182,653
Total paid out to 2020 - \$103,902
NEM customers 2019 - \$44,733
2018 - \$10,582

RCEA is dedicated to supporting customers who want to generate their own renewable energy. RCEA's solar Net Energy Metering (NEM) customers sell energy to the grid at higher rates, buy energy at lower rates, and may earn credits or cash at the end of the year.

There has been a lot of discussion on NEM changes proposed by the California Public Utilities Commission. Learn more and follow updates on their website:

https://apps.cpuc.ca.gov/apex/f?p=401:56:0::NO:RP,57,RIR:P5_PROCEEDING_SELECT:R2008020

Energy Storage Incentives

and the

Community Grid Program

RCEA partnered with **Swell Energy** to offer solar + battery customers extra savings by connecting to a "virtual power plant." Earn a \$1000 gift card just for signing up.

Learn more about how you can build your own resilience.

swellenergy.com/rcea

Contractor & Vendor Network

RCEA is developing a resource for our customers to find approved contractors and vendors that can **help you with your energy projects.**

CONTRACTORS - you can apply to join the network through a simple application on our website.

RedwoodEnergy.org/contracting

Equipment Rebates

For residential high-efficiency **heat pump water heaters** and **space heating** systems

Bonus incentives for smart controls and electric **service panel** upgrades

Contact us to learn about additional equipment rebates.

No-Cost Residential Energy Efficiency Services

- Energy Advisor consultations
- Energy Assessments over the phone
- Reports with custom recommendations for your home
- Energy Efficiency Kits

Efficiency Kits valued up to \$75, customized for your home



Thank you!

to nearly 1000 RCEA residential customers who took advantage of our energy services in 2021.

You received a home energy consultation, bought an electric car and received our EV rebate, took advantage of our charging equipment rebate and are topping up your EV at home, joined RCEA in generating your own electricity or are connecting your battery to our virtual power plant with Swell Energy. And thank you to all the contractors and vendors who joined RCEA's network.

Get Help with Your Energy Bills

Take advantage of options to reduce your energy consumption, lower your costs, and get help paying your energy bills. Visit our website for details.



Drive an Electric Vehicle and Charge at Home

Take advantage of RCEA EV REBATES

Apply for RCEA's **EV Rebate** and the California Clean Vehicle Rebate Project (CVRP) rebate. RCEA customers are eligible for a rebate totaling 50% of whatever incentive amount they received from the CVRP.

The **charging equipment rebate** is for up to \$500 per residential customer for charging stations listed on our Approved Products List, not to exceed 50% of the total charging station hardware costs.

Details can be found at

Redwoodenergy.org/rcea-rebates



Coming Soon RCEA Commercial and Residential Rebate Catalogs

Watch our website for details

Residential Services

Cathy Chandler-Klein, Michelle Weston, Wesley Caddell, and Caroline Isaacs are a few of RCEA's customers who are working towards making their homes more energy efficient by participating in RCEA's **Customer Energy Solutions** programs. By switching to cleaner fuel sources like electricity, and utilizing the RCEA services featured on the left, customers like them can help reduce greenhouse gas emissions and save on energy costs.

“ We are lucky to have agencies like RCEA help people understand how to make the changes necessary for us all to live in a more just and sustainable world. As a customer and member of your community, I am grateful for your support and that you help others navigate the best ways to make positive changes. Having a report like this really helps me make the necessary improvements. Thank you for all your work that you do!”

Wesley Caddell

For any of RCEA's services,
start by filling out a simple
CUSTOMER INTEREST FORM
www.RedwoodEnergy.org
or call us at (707) 269-1700.



Commercial and Non-Residential Services

RCEA has launched a variety of new energy efficiency and electrification programs to provide customized solutions for **local businesses**.

Whether RCEA has served your business in the past or we're meeting for the first time, our Energy Advisors will work with you to find projects that fit your needs and budget for exterior and interior lighting, refrigeration and HVAC, equipment upgrades and more. Contact us before you get started on projects so we can find rebates to reduce your costs.

No-Cost Consultations

Make a plan with professional advisors to help decide what services are best for your business.

Installation Services

Our services focus on saving energy and lowering bills.

Equipment Upgrades

“ Saving money is an important part of management decisions but the environmental and ecological desire from Indian people is to preserve the earth and maintain balance of the earth. There's a real cultural affinity towards the kind of contemporary technology we are using to cut energy costs, a match between the moral values of traditional Indian culture and what we're able to do with this rebate program.

RCEA had a great team. They did the install themselves. Derek organized a crew and they worked with each individual retailer to find the times that they could come in, working around the retailer's schedule. They were very respectful working around the merchandise and fixtures. There were no issues or breakage—it was very clean, efficient and very professional. That made a big difference having an install done that way.”

Greg Gehr

Northern California Indian Development Council
Director and Carson Block Manager

- Entire Carson Block Building in Old Town Eureka
- About 70% of the total project expense was funded through RCEA
- Payback = less than 2 years
- Total of 382 lamps installed

For a limited time, RCEA will donate \$100 to Food for People on behalf of RCEA customers with a business account that sign up for an energy consultation.



Advanced Fuels and Transportation



“

In 2021 electric vehicles encountered major supply chain issues, a hot used car market, and high gas prices, but 2022 is shaping up to be a banner year for EVs. Auto makers still struggle with material shortages and shipping delays, and with limited new car inventory and uncertainties of the pandemic, used vehicles become a natural choice for many drivers. We saw used EV inventory drop and prices rise, so expect to pay a premium in early 2022 until supply catches up with demand. Persistent high gas prices also create strong demand for EVs and their low operating costs, giving EV drivers another reason to be thankful when they drive by gas stations. We're still waiting to see what federal spending looks like in 2022, but the Build Back Better plan looks promising for EV incentives and infrastructure.

In 2022 we'll see more EV body styles enter the market. Pickup trucks are a best-selling US vehicle, and in 2021 Ford announced their electric truck contender, the F-150 Lightning. With more than 200,000 reservations this could be the vehicle that brings EVs to mainstream America. Electric cross-overs and SUV options are also expanding, filling in the top four preferred vehicle types in the US and giving car shoppers plenty of electrified options.

As said by Chris Harto, Senior Policy Analyst at Consumer Reports, "There's all of this pent-up demand from consumers for EVs at a reasonable price, at a reasonable range, in segments they want, and they haven't had that option, up until really this year." There's a good chance 2022 will be the year that EVs really take off."

Dana Boudreau

Director of Infrastructure Planning and Operations

GOALS for Advanced Transportation

- Accelerate the adoption of electric vehicles, with a target of over 6,000 EVs in Humboldt County by 2025 and 22,000 by 2030. Develop public, workplace, and residential EV charging infrastructure necessary to support these targets.
- Work with other local public entities to reduce vehicle miles traveled in Humboldt County by at least 25% by 2030.
- By 2030 reduce greenhouse gas emissions from transportation by over 65% and eliminate the use of fossil fuels by 2050.



The RCEA EV Charging Network welcomes the Arcata Community Center as our latest site with eight ports. The site serves community events, downtown access, and nearby apartment dwellers who are unable to install their own chargers. We'll open four more charging ports at the regional airport during spring 2022, with a few more sites later this year.

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A bumper car incident forced me out of my last petrol beast into a new plug-in hybrid electric vehicle. I'm still using petrol, but to the tune of 500 miles

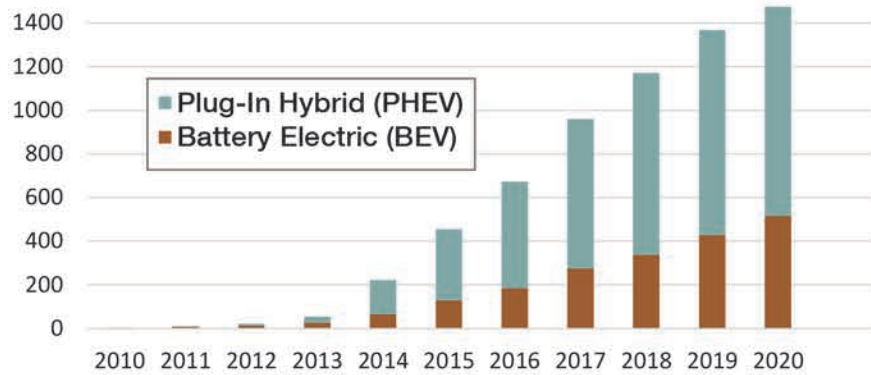
per tank. This electric fuel option has showed me that I CAN actually achieve that kind of mileage with the current resources at hand. What sweetened the deal, besides a number of rebates, was the assistance provided by RCEA. They not only provided one of those rebates, but the hope for a better future with the programs and education they provide on how this fossil fuel-driven American society can transition to more sustainable systems. Thank you, RCEA!"

Stacy Becker

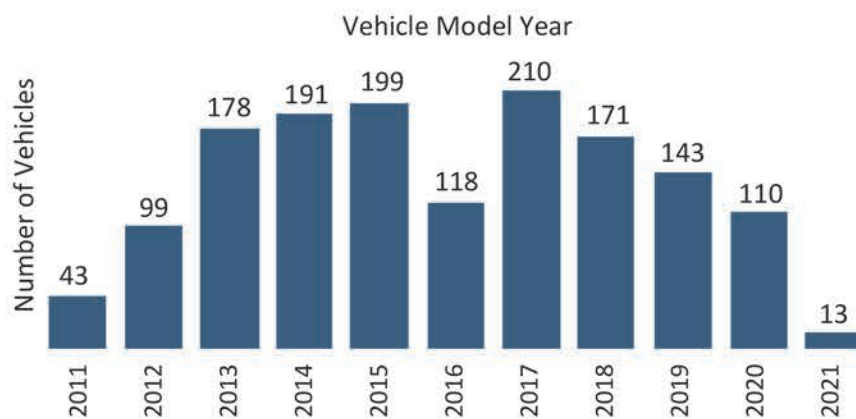
RCEA EV Rebate Recipient



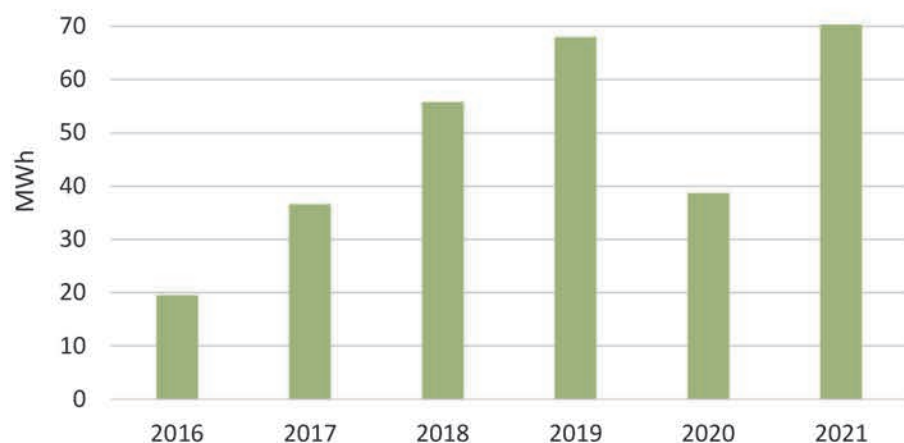
Electric Vehicle Totals in Humboldt County



Electric Vehicle Model Years in Humboldt County



RCEA Charging Network Energy Usage



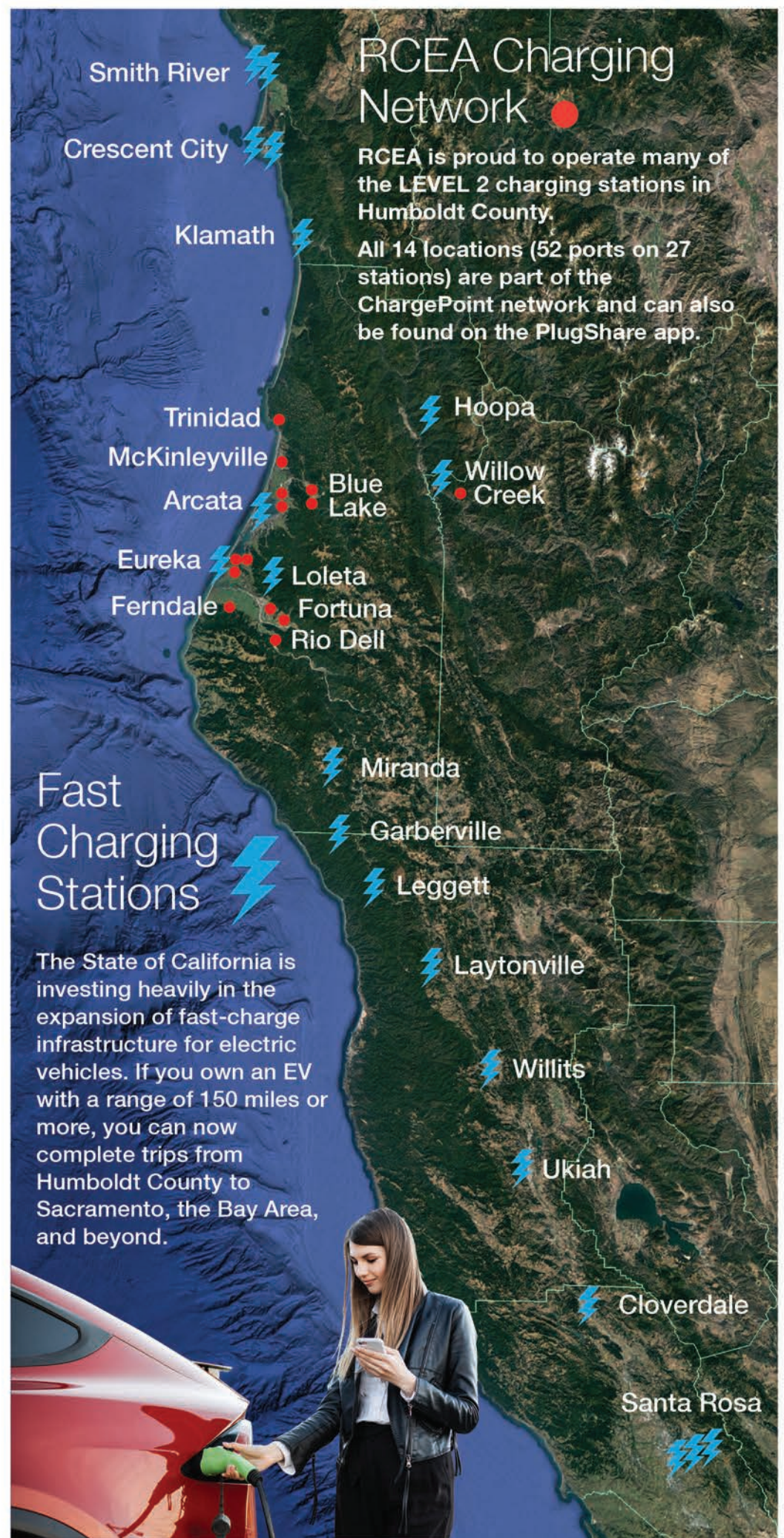
Data is from the California Energy Commission. Please visit their website for more information:

<https://www.energy.ca.gov/data-reports/energy-insights/zero-emissions-vehicle-and-charger-statistics>

RCEA Charging Network

RCEA is proud to operate many of the LEVEL 2 charging stations in Humboldt County.

All 14 locations (52 ports on 27 stations) are part of the ChargePoint network and can also be found on the PlugShare app.



“If you want to go far, go together.”



Capt. Mark Hiigel (US Coast Guard, Humboldt Bay Sector Commander) speaking at the Redwood Coast Airport Microgrid’s “Take Off” event in July about how critical it is to have energy resilience when it comes to search and rescue missions and emergency services on the North Coast.



While representatives from Principle Power, Ocean Winds and Aker look on, Jeff Hunerlach from Operating Engineers Local 3 and State Building and Construction Trades Council of CA President Robbie Hunter assemble a floating wind turbine model.

Constructing new energy projects to provide power and jobs for Humboldt County requires innovation, new partnership models, and interagency

COLLABORATION

We will continue to partner with local community stakeholders and customers to design and build customized energy resilience solutions for Humboldt County.



Interior Secretary Deb Haaland met with local leaders in August to discuss a range of issues, including the need to build out a clean energy economy and create jobs by spurring offshore wind development. *Photo courtesy of the North Coast Journal.*



Humboldt County Aviation Director Cody Roggatz, Schatz Energy Research Center Founding Director Peter Lehman, RCEA Executive Director Matthew Marshall, and RCEA Infrastructure Planning & Operations Director Dana Boudreau.



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