NOTICE AND CALL OF A SPECIAL MEETING
OF THE COMMUNITY ADVISORY COMMITTEE
OF THE REDWOOD COAST ENERGY AUTHORITY

TO THE COMMUNITY ADVISORY COMMITTEE OF THE REDWOOD COAST ENERGY AUTHORITY AND TO THE CLERK OF THE BOARD:

NOTICE IS HEREBY GIVEN that a special meeting of the Community Advisory Committee of the Redwood Coast Energy Authority is hereby called to be held on Tuesday, December 10, 2019, at the Humboldt Bay Municipal Water District Office, 828 7th Street, Eureka, at 6:00 p.m. The purpose is to discuss agenda items listed below.

Dated: November 27, 2019

Matty Tittman, RCEA CAC Chair

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<tr>
<th>Agenda Item</th>
<th>What / Action</th>
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<td>1. Open</td>
<td>Roll Call: Richard Johnson, Norman Bell, Jerome Carman, Colin Fiske, Larry Goldberg, Pam Halstead, Tom Hofweber, Estelle Fennell, Alternate Board liaison</td>
<td>6 - 6:05</td>
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<tr>
<td></td>
<td>Review meeting agenda and goals</td>
<td>(5 min.)</td>
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<td>2. Member Reports</td>
<td>This time is provided for Committee members 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.</td>
<td>6:05 - 6:20</td>
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<td>3. Oral Communications</td>
<td>This item is provided for the public to address the Committee on matters not on the agenda. At the end of oral communications, the Committee will respond to statements, set requests requiring action to a future agenda, or refer requests to staff.</td>
<td>6.20 - 6:30</td>
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<td>4. Public Engagement in the CCE Power Mix</td>
<td>Receive report on the process by which the community can change the Community Choice Energy Program’s power mix.</td>
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<td>5. RePower Humboldt / Comprehensive Action Plan for Energy (CAPE) 2019 Update</td>
<td>1) Receive report on use of the term “clean” in the final draft of the CAPE / RePower Humboldt document; 2) Determine an appropriate definition of the term “clean,” and 3) Provide guidance to staff on incorporating revisions in the final CAPE / RePower Humboldt document for Board approval at its December 19 meeting.</td>
<td>6:30 – 7:25 (55 min.)</td>
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<td>6. Close &amp; Adjourn</td>
<td>Summarize actions, outcomes, Board communication items, next steps</td>
<td>7:25 - 7:30 (5 min)</td>
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SUMMARY

At the November 12, 2019, Community Advisory Committee, a request was made for clarification on how public participation contributes to decisions regarding the Community Choice Energy program's power mix.

RCEA’s 2003 joint powers agreement created RCEA to develop and implement sustainable energy initiatives for the benefit of member agency constituents. The agreement authorizes RCEA’s governing board, comprised of representatives of the County, seven cities and the Humboldt Municipal Water District, to perform actions necessary to fulfill agency purposes, including adoption of strategic plans and the formation of a Community Choice Energy (CCE) program which was deemed an effective means to achieve the agency’s core goals by allowing member agency constituents to exert local control over the community’s electricity supply.

The RCEA CCE Program Implementation Plan states the necessity of public input in planning to ensure that local preferences are planned for, developed and implemented. The Implementation Plan assigns the Executive Director to lead the development by staff of short- and long-term integrated resource plans that comply with state laws and balance cost, risk and environmental considerations.

Public comment and advisory committee input inform both staff plan development and governing board deliberations. Final CCE program decisions are made by member agency representative votes which are weighted based on the total number of member agencies and the proportional share of electric accounts in each participating member’s jurisdiction.

BACKGROUND

RCEA, with support from the Schatz Energy Research Center, gathered initial community preferences for the development of local energy resources through a comprehensive, regional, renewable energy strategic planning process called “RePower Humboldt,” which began in 2009 and which was funded by a California Energy Commission grant. During this three-year study, the research team made a concerted effort to gather input from a diverse group of county stakeholders. When the decision was made to launch a local CCE program to build on the foundation of the RePower Humboldt plan, RCEA established the Community Advisory Committee and held a series of public workshops in 2016 to gather additional community input on the goals for the program. That process resulted in the RCEA board adopting guidelines for the strategies and targets for the first five years of CCE program operations. The core goal of those guidelines is: Maximize the use of local renewable energy while providing competitive
rates to customers. The guidelines also establish financial, power-content, and program funding objectives.

During the current revision of the 2012 Comprehensive Action Plan for Energy, the strategic plan that guides RCEA’s efforts, RCEA held six public workshops attended by over 200 participants to gather input on agency work priorities and has received over 1,200 written comments, the majority of which addressed the CCE program’s power mix. All written comments have been published on redwoodenergy.org/services/planning/ and public comment summaries have been presented to the Board at monthly meetings. In addition, community members have addressed the Board and Community Advisory Committee on power mix procurement preferences and concerns during public meetings. This active public participation has shaped deliberations and strategic plan revisions, and resulted in the addition of a Forests, Energy, and the Environment Workshop to allow for a comprehensive biomass discussion.

The 2019 Comprehensive Action Plan for Energy revision outlines agency strategic plans to be implemented between 2020 and 2030. RCEA will revisit the plan during that period to keep it updated and reflective of changes in the community’s needs and energy market trends.

SPECIFIC POWER PROCUREMENT DECISIONS

The overall authority to make power procurement decision lies with the RCEA Board of Directors. Currently three documents, adopted and periodically updated by the Board, guide and delegate power procurement decision making:

RCEA’s Guidelines for the Community Energy Program Launch-Period Strategy and Targets, which as noted above was adopted in 2016 and outlines targets and objectives for the initial launch phase of the program during years 1-5 of operation.

RCEA’s Energy Risk Management Policy, which establishes RCEA’s energy risk management program, including risk management functions and procedures to manage the risks associated with power procurement activities. To facilitate daily operations of the CCE Program, the Energy Risk Management Policy also delegates certain operational control and oversight responsibilities and short-term power procurement transaction authorities to the Executive Director, a staff Risk Management Team, and RCEA’s contracted power manager The Energy Authority (TEA). Any power procurement transaction that exceeds the term-length or total value thresholds established in the policy require the approval of the RCEA Board of Directors.

RCEA’s Integrated Resource Plan is the formal long-term power procurement planning document that must be submitted to the California Public Utilities Commission (CPUC). The Integrated Resource Plan lays out a strategy for meeting RCEA’s energy and resource adequacy needs, as well as meeting the State’s renewable portfolio standard (RPS) and greenhouse gas (GHG) emission obligations over a planning horizon stretching from 2020 through 2030. The 2019 update to RCEA’s Comprehensive Action Plan for Energy will inform the 2020 update of RCEA’s Integrated Resource Plan which must be submitted to the CPUC in April.

RECOMMENDED ACTION

None - Information only.
SUMMARY

At the November 12, 2019, Community Advisory Committee meeting a request was made for a report on the definition of the term “clean” in the final draft of the CAPE/RePower Humboldt document.

Last year the State of California passed SB 100, “The 100 Percent Clean Energy Act of 2018,” which established “as a policy of the state that eligible renewable energy resources and zero-carbon resources supply 100% of retail sales of electricity to California end-use customers and 100% of electricity procured to serve all state agencies by December 31, 2045.”

“Eligible renewable resources” are defined by California State law as:

- Solar
- Wind
- Biomass, Biodiesel, and Biomethane
- Geothermal
- Small Hydroelectric (30 MW or less, or 40 MW or less if operated as part of a water supply or conveyance system)
- Municipal Solid Waste Combustion or Conversion
- Ocean Thermal, Wave, or Tidal

“Zero-carbon” resources that are not eligible renewable resources are defined by the state as:

- Large Hydroelectric
- Nuclear

The 2019 CAPE update established a goal of accelerating the SB 100 target from 2045 to 2025 and also excludes nuclear from the list of eligible resources. The CAPE sets the additional target that by 2030 “RCEA’s power mix will consist of 100% local, net-zero-carbon-emission renewable sources.”

In addition to these overarching goals, the CAPE identifies the specific renewable resources that RCEA will focus its power procurement efforts on:

- Solar, with an emphasis on distributed and community-scale projects
- Offshore Wind
- Onshore Wind
Bioenergy, primarily wood-waste biomass but also biogas generated from sources such as wastewater treatment facilities and organic and dairy waste digesters

- Wave and Tidal
- Small hydroelectric

Of the over 1,200 written comments RCEA received through the CAPE update process, 93% of the comments related to local biomass generation. Due to biomass being by far the most significant topic of input and split community opinions related to RCEA’s long-term power mix goals, RCEA hired an expert consultant to organize an in-depth “Forests, Energy, and Environment” workshop on the topic of local biomass utilization benefits and impacts. There were 74 participants at the workshop, and RCEA hired professional videographers to capture the panel discussion and public comments; the recording of the workshop is available on RCEA’s website and will also be aired on Access Humboldt.

At the November RCEA Board meeting Michael Furniss, RCEA’s climate and forests consultant who led the October 18 workshop, provided a report summarizing the workshop, consultations, and research on biomass power in Humboldt County. Additional perspective on the concerns and benefits associated with local biomass power generation was provided through presentations by local climate and health activist Dr. Wendy Ring and University of California Cooperative Extension Forest Advisor and Humboldt County Director Yana Valachovic.

After receiving the above presentations along with public comment and extensive deliberations, the RCEA Board provided direction to staff on revisions to the biomass component of the CAPE to address and balance the important role of biomass energy to the local forestry and forest-products sector while working to fully understand and reduce the negative side-effects of biomass utilization. An updated draft of the document that shows edits made since the November draft is attached; the revised biomass section of the CAPE is also excerpted here:

**Power Resources: Bioenergy**

**Support Biomass Fuels Reduction and Utilization.** Develop strategies and technologies for improved biomass utilization in ways that effectively support restoration objectives and fire management priorities. Coordinate with local agencies, communities, and landowners to develop biomass energy plans that are consistent with sustainable forest management, hazardous fuels reduction, fire safety, and restoration needs.

**Procure Local Biomass Energy.** Contract with local biomass facilities as a means of providing locally generated renewable power and managing wood waste from mills and, when feasible and appropriate, from forest management and restoration activities. Require and support a high standard of environmental performance from RCEA’s biomass suppliers. Support the deployment of the best-available emissions control technologies, recognizing that power producers’ ability to implement such technologies is affected by the price they are paid for their power.

**Pursue Funding for Biomass Best Practices.** Establish a fund to support research and demonstration projects leading to best uses of biomass, with the goal of continuing to produce local renewable energy while maximizing community benefits and emissions reductions, and to the extent feasible supporting the forest products industry’s need to manage its locally generated waste stream.

**Investigate the Impacts of Biomass Emissions.** Support research and quantification of the gross and net emissions of greenhouse gases and criteria pollutants associated with local biomass energy production, and the potential emissions reductions associated
with disposing of biomass feedstocks by other means. Support development of a locally specific model to estimate human exposure to criteria pollutants from biomass power plants under different operating scenarios. Adjust RCEA’s biomass power procurement strategy as appropriate based on these findings and power producers’ progress in limiting emissions.

Establish a Biomass Technical Advisory Committee. Create a technical advisory committee made up of subject matter experts on biomass energy, the local forest products industry, and health and environmental impacts associated with biomass energy. The committee shall meet periodically and provide a quarterly report to the RCEA Board of Directors on technical feasibility and financial, environmental, and health implications of biomass use alternatives.

Promote Small-Scale Biomass Generation Sites. Monitor feasibility of smaller and/or mobile biomass electric generators fed with wood waste and very small diameter logs (e.g., from thinning for fire safety and timber harvest slash). If/when technology proves feasible and cost effective, promote its use in county areas where appropriate.

Plan for a Long-Term Transition Away from Direct Combustion of Forest-Derived Biomass and Toward Lower-Impact Uses of this Material. Limit procurement of biomass power from existing direct combustion plants to short-to-mid-term contracts. Pursue partnerships with others, including research organizations and interested public agencies, in development of a large-scale pilot project to produce biochar as a means of treating mill waste and sequestering the carbon in this material. Support development of cost-effective biomass gasification facilities for electric and thermal energy production.

Pursue Biogas Development. Support HWMA and others with the development of organic waste digesters. Develop and publicize dairy biogas demonstration sites and work with local farm organizations to promote dairy biogas energy systems where appropriate. Publicize the use of biogas at existing local wastewater treatment facilities and encourage its use at additional facilities where appropriate. Encourage biogas use to produce electricity onsite rather than pipeline injection to support long-term phaseout of natural gas distribution infrastructure and avoid the potential greenhouse gas emission impacts of pipeline leaks. Seek opportunities to aggregate feedstock from dairies, wastewater plants, and food waste streams to achieve economies of scale in developing cost-effective local biogas facilities.

RECOMMENDED ACTION

1) Discuss and provide input on how to define “clean” energy; and
2) Provide any final input on the CAPE/RePower Humboldt document prior to RCEA Board’s approval of it at their December 19 meeting.

ATTACHMENT

2019 RePower Humboldt – Comprehensive Action Plan for Energy - Draft 4
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RePower Humboldt
The Redwood Coast Energy Authority’s Comprehensive Action Plan for Energy

2019 UPDATE – DRAFT 4.0
12-6-19
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Executive Summary

Consistent with Humboldt County’s General Plan, the County of Humboldt recognizes the Redwood Coast Energy Authority (RCEA) as the regional energy authority to foster, coordinate, and facilitate countywide strategic energy planning, implementation, and education through RePower Humboldt, RCEA’s comprehensive action plan for energy. This action plan consists of implementation measures specific to the functions of RCEA as the regional energy authority for Humboldt County and in alignment with the mission and purpose in RCEA’s Joint Powers Agreement, which 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.

The strategies within this 2019 update of the RePower Humboldt strategic plan will be implemented between 2020-2030 to achieve the goals listed below. Reduction targets are from a baseline year of 2018, unless otherwise stated. While this plan has a ten-year time horizon, RCEA will revisit it regularly during that period to keep it updated and reflective of changes to our community’s needs and energy market trends.

REGIONAL PLANNING AND COORDINATION

RCEA will take a leadership role to develop and advance strategic regional energy goals through economic development, funding, planning efforts, and education. This work will be done in coordination with RCEA’s member governments, other local public agencies, local tribes, and other public and private stakeholders.

Goals: Achieve net-zero greenhouse gas emissions county-wide by 2030.

By 2030 fully establish Humboldt County as an energy secure community that can affordably and reliably meet its local energy needs with local renewable resources and has the robust local capabilities and infrastructure necessary to effectively respond to energy emergencies or disruptions in energy supply.

Build the clean energy sector into a cornerstone of the local economy through a breadth of 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.

INTEGRATED DEMAND SIDE MANAGEMENT

RCEA will use an Integrated Demand Side Management approach to develop distributed energy resources and reduce energy consumption in the residential, commercial, industrial, agricultural, and government sectors and to align customer energy use with variable clean and renewable energy supplies. RCEA will prioritize efforts that enhance local energy resiliency and independence.

Goals: Support the wide-spread installation of customer solar photovoltaic energy systems, with a target to increase installations to a rate of one system every day for the next decade and reach 30MW of customer solar installed by 2025 and 50MW installed by 2030.
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 reduce greenhouse gas emissions from fossil fuel use in buildings by 20% by 2030 and maintain a trajectory to reduce emission from natural gas by 90% by 2050.

Develop a network of community microgrids and renewable-energy back-up power systems across the county to reduce greenhouse gas emissions and to provide energy resiliency and long-duration emergency energy supply at all critical facilities by 2030.

**LOW-CARBON TRANSPORTATION**

RCEA will decarbonize regional transportation through efforts to reduce vehicle miles travelled, increase advanced fuel vehicles adoption and fuel efficiency, and expand advanced fuel infrastructure.

**Goals:** Accelerate the adoption of electric vehicles, with a target of over 6,000 electric vehicles on the road in Humboldt County by 2025 and 22,000 vehicles by 2030. Develop public, workplace, and residential electric vehicle charging infrastructure necessary to support these county-wide electric vehicle 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% through reductions in vehicle miles traveled, improved vehicle efficiency, the adoption of electric vehicles, and, where determined to be an effective emissions-reduction strategy, the use of biofuels as a bridge to a full transition to zero-emissions vehicles. Maintain a trajectory of emissions reduction to eliminate the use of fossil fuels by 2050.

**ENERGY GENERATION AND UTILITY SERVICES**

RCEA will address Humboldt County’s supply-side energy needs through its existing Community Choice Energy (CCE) program and development of new programs and initiatives.

**Goals:** By 2025 100% of RCEA’s power mix will be from a combination of state-designated renewable energy sources—solar, wind, biomass, small hydroelectric, and geothermal—and state-designated net-zero-carbon-emission existing large hydroelectric facilities.

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.

Humboldt County can effectively respond to regional and local disruptions to energy supply and distribution systems through modernization of the local electric grid, the deployment of local distributed energy resources, and the development of community microgrids.
ENERGY FUELS OUR EVERYDAY LIVES

With the impending consequences of global climate change on the horizon, it’s never been a more important time to significantly reduce greenhouse gas emissions. It’s imperative that Humboldt County does its part to reduce emissions within the next ten years as the world strives to keep global warming at or below 1.5 °C above pre-industrial levels. The effects of climate change will impact Northern California by increasing annual maximum temperatures, altering stream flows, lengthening the fire season, sea level rise, and increased risk of flooding, as well as increasing the likelihood of intense storms within a shorter wet season and a prolonged dry season. The surest way to take action to reduce emission and lessen the effects of climate change is by targeting the biggest source of emissions, the energy sector.

In Humboldt County, each of us depends on energy 24 hours a day, and we continuously benefit from the direct and indirect use of energy resources. Energy is ever present in our daily lives and much of the time it’s taken for granted. From the sun we draw heat, light, and solar power; while it works to grow our food, forests, flowers, and more. We depend on fossil fuels to get us to work, school, local shops, as well as to transport our food, commodities, mail, and garbage. Electricity enables us to work after the sun goes down; we depend on it to light our offices, classrooms, and streets; to keep our food cold and our ice cream frozen; to pump water through pipes; to transmit information and keep in touch. Energy in a diversity of forms fuels our industries and business ventures: from powering lumber mills to dairy farms; from firing ceramics to pizzas, and from brewing beer to baking bread. It’s clear that reliance on energy resources characterizes a large part of our everyday lives.

The production and consumption of energy also affects our daily lives in more indirect ways, particularly with regard to the environment. The burning of fossil fuels has led to damaging environmental effects such as acid rain, smog, water pollution, and global warming. Exploratory drilling and extraction of non-renewable energy sources (such as coal, petroleum, and natural gas), and their attendant infrastructure, has resulted in the degradation of other natural resources, for example forests, coastal communities, and rainforests. Although these areas may be far away, the environmental impacts can reach Humboldt County. The fact is, all forms of energy production, including renewable energy, have environmental and social impacts, and responsible energy planning seeks to minimize negative impacts while maximizing community benefits.

The original RePower Humboldt strategic plan published in 2013 showed that Humboldt County has hundreds of megawatts of untapped renewable energy potential from a variety of sources, including solar, wind, wave, and biomass. With a population of less than 140,000 and a limited industrial base, electric loads in Humboldt are light. In contrast, California’s urban counties have much larger loads and little potential for renewable energy generation other than rooftop solar. For example, in 2018 San Francisco consumed seven times as much electricity as Humboldt County, and Los Angeles County used 85 times Humboldt’s load. If California as a whole is to meet its renewable energy and greenhouse gas reduction goals, resource-rich counties like Humboldt will need to export a portion of their energy wealth to these urban load centers.
In Humboldt County, energy is used as a transportation fuel and as electrical and heat energy in homes, businesses, industries, and agriculture. In 2015 it is estimated that Humboldt County spent over $400 million to meet local energy demands, the majority of which left the county. A major portion of the energy was used as transportation fuel (gasoline and diesel), with large amounts also used to meet end use electrical demands and end-use natural gas heating demands. Primary energy sources were comprised mainly of natural gas, gasoline, diesel, and propane.

REDWOOD COAST ENERGY AUTHORITY
MISSION AND PURPOSE

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 for the benefit of the Member agencies and their constituents. To further that purpose, the Redwood Coast Energy Authority will work toward the following goals, as enumerated in our Joint Powers Agreement:

A. To lead, coordinate and integrate regional efforts that advance secure, sustainable, clean and affordable energy resources.

B. To develop a long-term sustainable energy strategy and implementation plan.

C. To increase awareness of, and enhance access to, energy conservation, energy efficiency, and renewable energy opportunities available to the region.

D. To add value to, but not duplicate, energy services offered by utilities and others serving the region in a manner that does not conflict with acting as a community choice aggregator.

E. To keep key decision makers and stakeholders informed of policy, regulatory, and market changes that are likely to impact the region.

F. To support research, development, demonstration, innovation, and commercialization of sustainable energy technologies by public and private entities operating in Humboldt County.

G. 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.

In striving to achieve the above goals, RCEA will ensure that environmental and social impacts associated with production and consumption of energy are minimized, and that any unavoidable impacts are borne to the extent possible within Humboldt County rather than by other communities, and will seek to maximize social, economic, and environmental benefits to Humboldt County associated with local energy production.

The RePower Humboldt plan is intended to support achieving these goals through strategies that specifically address: Regional Energy Planning & Coordination, Integrated Demand Side Management, Low-Carbon Transportation, and Energy Generation & Utility Services.
VISION STATEMENT

The below vision statement was developed in 2005 through the public comment process for the original draft of the Humboldt County General Plan Energy Element prepared by RCEA. It expresses the community qualities and characteristics that the RePower Humboldt plan aspires to achieve, expressed as how Humboldt County could be described in 2030. Minor modifications have been made to the original vision statement to reflect recent changes to the state and local energy economies, as well as community input gathered in developing this 2019 RePower Humboldt update.

In 2030…

Humboldt County has achieved the goal of net-zero greenhouse gas emissions and is a net exporter of renewable energy. We achieve energy independence and self-sufficiency through high levels of energy conservation, efficiency, and electrification combined with locally-produced and -managed energy generation. Our energy comes from renewable sources. Money spent on energy stays in the county.

Individual communities have developed greater energy self-sufficiency and independence as has the county overall. Citizens have a diversity of choices for how to meet their energy needs. We have local control over energy prices. We readily adapt to any major external changes in energy supply or technology.

Our energy consumption is level from year to year, due to increasing conservation and efficiency to offset increases in growth-related demand.

Our overall quality of life is better than it was in 2005. The population is healthier as a result of leading energy-conserving lifestyles. It is common, safe, pleasant, and economically favorable to have a lifestyle that doesn’t consume much energy.

Energy conservation education has reached, and continues to reach, effectively, everyone in the county. Energy considerations and decisions are integrated with all other decision-making arenas.

The county has minimized negative environmental, social, and economic impacts associated with meeting its energy needs, while ensuring any unavoidable impacts are borne locally rather than by other communities.

The County is energy efficient through neighborhood design. Good community planning has reduced sprawl. There are fewer automobiles used for travel; people depend more on transit, bikes, walking, and shared-use automobiles than they depend on private automobiles. Public transportation is conveniently available and well utilized. There is much less consumption of energy from non-renewable sources for transportation.

All buildings are energy efficient. All new construction is all-electric and done in the most energy efficient manner, starting with building design. All existing buildings have been upgraded to be more efficient and many have converted their previous uses of natural gas and propane to electricity. Energy efficiency is integral to locally adopted building standards, which have flexibility and include meaningful incentives. Many homes and businesses produce more energy than they consume.

The County is a thriving research and development center and incubator for energy technology and related manufacturing, which is a stable source of local jobs.
Strategies
Regional Energy Planning & Coordination

RCEA will take a leadership role to develop and advance strategic regional energy goals through economic development, funding, planning efforts, and education. This work will be done in coordination with RCEA’s member governments, other local public agencies, local tribes, and other public and private stakeholders.

Goals: Achieve net-zero greenhouse gas emissions county-wide by 2030.

By 2030 fully establish Humboldt County as an energy secure community that can affordably and reliably meet its local energy needs with local renewable resources and has the robust local capabilities and infrastructure necessary to effectively respond to any energy emergencies or disruptions in energy supply.

Build the clean energy sector into a cornerstone of the local economy through a breadth of 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.

ECONOMIC DEVELOPMENT

Attract Energy-related Business. Collaborate with local economic development entities to attract technology developers, manufacturers, and energy service providers to locate operations in the County when appropriate.

Support Proactive Energy-related Business Development. Collaborate with local jurisdictions to identify and pre-assess locations and facilities for energy-related business ventures.

Support Energy-sector Workforce Development. Work with other local entities to provide training and continuing education that develops and maintains a qualified local workforce available to implement energy efficiency upgrades, renewable energy projects, and advanced-vehicle technology deployment.

ENERGY-RELATED EMERGENCY RESPONSE

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.

Support Climate Change Adaptation. Work with other local entities to conduct a climate change risk assessment and develop an adaptation plan consistent with the best-practices guidance provided by the California Natural Resources Agency and California Office of Emergency Services.

FUNDING

Develop Regional Energy Funding Mechanisms. Offer support and act as the fiscal agent and funding clearinghouse for countywide energy programs.

Pursue Cap and Trade Auction Proceeds. Work regionally to access Cap and Trade auction proceeds and other State funding mechanisms to ensure effective, efficient, coordinated, and equitable resource allocation in the North Coast Region.

Develop Job Development Incentives. Collaborate with local economic development entities to identify funding opportunities for developing jobs in the field of energy conservation, efficiency, and renewable sources.

Implement Energy Project Financing. Work with local economic development entities and/or financial institutions to develop and implement financing programs that enable residents and businesses to implement energy efficiency and renewable energy projects. Facilitate Property Assessed Clean Energy (PACE) and other financing programs that access the needed capital to deploy regional energy independence strategies.

Develop Local Energy Investment Programs. Work with local economic development entities and financial institutions to develop programs and resources that facilitate local community investment in and/or ownership of energy efficiency and renewable energy projects.

Pursue an Investment Grade Credit Rating for RCEA’s Community Choice Energy Program. Through building program reserves and responsible program management, secure an investment grade credit rating from a major financial services company to support long-term energy transactions.

PLANNING

Support Renewable Energy Permitting. Support the County in streamlining permitting for renewable energy generation including updating zoning codes and creating wind energy GIS overlays.

Support Carbon Sequestration. Support the development and deployment of mechanisms for retaining carbon in the region’s abundant natural areas and working lands.
**Assist with Climate Action Planning.** Work with local jurisdictions to regularly complete greenhouse gas inventories, set greenhouse gas reduction targets, and develop climate action plans.

**Support Countywide Strategic Energy Planning.** Coordinate an effective energy strategy based on self-sufficiency, development of renewable energy resources, energy conservation, and electrification that is actively implemented countywide through Climate Action Plans, General Plans and the Redwood Coast Energy Authority’s RePower Humboldt plan.

**Encourage Adoption of Energy Elements.** Encourage and assist with the adoption of energy elements by other local and regional jurisdictions. Periodically review local energy elements and recommend updates, as necessary, to reflect changing technologies for the generation, transmission, and efficient use of energy.

**Encourage Energy Policies and Plans.** Encourage other jurisdictions and entities, including the cities in Humboldt County, to adopt and implement sound energy plans and policies, to include energy elements and/or energy policies in their general plans and ordinances. Advocate and disseminate energy planning strategies, policies, and other information.

**Promote Energy Efficiency, Renewable Energy, and Storage Permitting.** Support local ordinances that streamline permitting processes for energy efficiency, renewable energy, and storage technologies.

**Develop Programs that Foster Social Equity.** Identify, fund, and establish new programs that address the energy needs of the least advantaged and underserved members of our community.

## EDUCATION

**Maintain an Energy Resource Center.** Operate an energy resource center open to the public and provide information on energy conservation, energy planning, renewable energy, energy storage, low-carbon transportation, all-electric buildings, and energy-efficient building design and retrofits.

**Hold Regional Energy Forums.** Serve as a forum for addressing countywide energy issues.

**Develop Public Displays.** Encourage and assist development of educational displays for exemplary renewable energy and distributed energy systems installed throughout Humboldt County. Displays should provide county residents and businesses with information on how the systems work and how well they perform and should inform county residents about the importance, benefits, and associated impacts of developing local energy resources.

**Provide Energy Efficiency, Conservation and Electrification Education and Training.** Provide community education, information, and resources on energy issues to support informed decision making related to customer energy use, including the benefits of conservation, electrification and increased energy efficiency. Collaborate with schools and colleges for energy-related research, education, and conservation practices.

**Provide Energy Professional Education and Training.** Provide and encourage training for local contractors and energy professionals on energy-related topics such as: energy code, energy
efficiency, demand response, zero net energy retrofits and construction, electrification, heat pumps, battery storage and solar.

Integrated Demand Side Management

RCEA will use an Integrated Demand Side Management approach to develop distributed energy resources and reduce energy consumption in the residential, commercial, industrial, agricultural, and government sectors and to align customer energy use with variable clean and renewable energy supplies. RCEA will prioritize efforts that enhance local energy resiliency and independence.

Goals:

- Support the wide-spread installation of customer solar energy systems, with a target to increase installations to a rate of one system every day for the next decade and reach 30MW of customer solar installed by 2025 and 50MW installed by 2030.

- 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 reduce greenhouse gas emissions from fossil fuel use in buildings by 20% by 2030 and maintain a trajectory to reduce emission from natural gas by 90% by 2050.

- Develop a network of community microgrids and renewable-energy back-up power systems across the county to reduce greenhouse gas emissions and to provide energy resiliency and long-duration emergency energy supply at all critical facilities by 2030.

INTEGRATED DEMAND SIDE MANAGEMENT STRATEGIES

Support Member Agency and Local Government Energy Management. Support member agencies in managing their energy usage. RCEA will support activities that reduce and align energy use with available clean and renewable supplies to reduce costs while being consistent with state energy goals and Greenhouse Gas Emission Reduction goals. Additional activities will be prioritized where they support energy resiliency and independence.

Support Implementation of Codes and Standards. Support the State’s goals related to residential and commercial net-zero-energy and zero-net carbon standards along with other green building
standards, including the local implementation of Title 24 building energy codes, Title 20 appliance efficiency standards and individual projects that strive to achieve energy efficiencies that exceed state and local requirements. Support the consideration, adoption, and implementation of above code energy ordinances.

**Assist with Facility Benchmarking.** Assist local governments and businesses with facility benchmarking to evaluate and track the energy performance of non-residential buildings.

**Perform Energy Assessments.** Advise building owners on the life cycle costs and benefits of energy efficiency, conservation, demand response, generation, electrification and storage opportunities through assessments. Assessments will be followed with comprehensive reports detailing an integrated strategy for energy management.

**Integrate Distributed Energy Resources.** Develop and implement customer programs that support, promote and integrate distributed energy resources, including but not limited to grid-connected generation, energy storage, energy efficiency, electric vehicle and demand response technologies.

**Integrate a Distributed Energy Resource Management System.** Support the development and installation of systems needed for effective and responsive management of distributed energy resources. Evaluate the potential integration of distributed energy resources into a unified system that would allow RCEA to aggregate and automate demand response activities.

**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.

**Use Advanced Metering Infrastructure.** Support advanced metering infrastructure to expand every customer’s visibility into their energy usage for more ownership and control of their energy related behavior and decisions. Use advanced metering data to make informed program decisions.

**ENERGY EFFICIENCY & CONSERVATION**

**Maximize the Efficiency of Buildings.** Support energy efficiency and conservation as core strategies toward achieving environmental, economic, and community goals. Promote the whole-house approach to energy efficiency using the latest building science and incorporating interactive effects between passive and active energy systems in a home. First reduce the need to use energy and then use energy efficiently where it is required. An example would be to air seal and insulate the home and furnace ductwork to reduce heat loss before upgrading the furnace. Support programs that increase building shell efficiency through air sealing, insulation, and window upgrades while improving comfort and indoor air quality.

**Support Electrification.** Prioritize the development and implementation of programs and services that promote the replacement of fossil fuel burning appliances with the most energy-efficient electric equipment including heat pump hot water and space heaters and the electrification of commercial and industrial processes.
Increase Equipment Efficiency through Market Transformation. Prioritize the development and implementation of programs and services that promote the use of the most energy-efficient equipment for space and water heating, ventilation, lighting, refrigeration, and air conditioning in all buildings, including residential, commercial and industrial facilities.

Promote Performance Contracting. Promote residential and commercial performance contracting that is consistent with current best practices for energy efficiency and environmentally sound construction techniques.

Develop and Support Behavioral, Retro-Commissioning and Operations Programs. Promote, develop, and implement programs that enable energy conservation and load-shifting through customer behavior changes, building system retro-commissioning, and operational changes.

Promote Smart Technologies and Smart Controls. Support the replacement of existing plug load devices with smart technology devices that are programmed to save energy, shift energy use outside of peak hours, and/or provide automated demand response using utility signaling. Examples include internet-of-things enabled lighting, water and space conditioning, dish and clothes washing, and refrigeration. Promote control technologies that adjust the use of equipment based on environmental input or demand. Examples include variable speed fans and ventilation, variable speed pumps and motors, daylighting controls, occupancy sensor controls, smart thermostats, and building management systems.

DEMAND RESPONSE

Implement Demand Response and Distributed Energy Resource Programs. Support and prioritize demand response programs that offer customers a role in balancing energy usage with the availability of electricity on the grid. Demand response programs and offerings will, where possible, integrate with distribution-connected efficiency systems and controls, renewable energy generation, and energy storage measures. Where feasible, energy technologies will be controllable and integrated as a distributed resource; any such efforts will require customer education and approval and will be implemented with a commitment to respecting and protecting customers’ rights to privacy.

Support Reduced Energy Use During Peak Hours and Peak Event Days. Notify, support, and enable action from customers who choose to participate by shifting energy usage to off-peak hours, reduce daily energy usage during peak hours, and/or reduce energy usage during peak event days.

Enable Automated Demand Response. Install communicable controls with electrification, efficiency, and storage technologies that automatically reduce energy use during demand response events. Implement building demand response systems that allow for the curtailment of loads without major impacts to occupants and operations.
CUSTOMER DISTRIBUTED GENERATION & STORAGE

Support Customer Installation of Distributed Generation. Support the deployment of behind-the-meter grid-connected renewable energy and storage systems as core strategies toward achieving environmental, economic, and community stability/resilience goals.

Implement the Public Agency Solar Program. Continue to implement the solar and energy-storage technical assistance program for public agencies; integrate grid-connected resources, efficiency, electrification and microgrids as feasible.

Implement a Community Solar and Storage Program. Evaluate, design and launch community solar and storage program services that support the increased adoption of grid-connected solar and storage technologies.

Integrate Vehicle to Grid Storage. Integrate vehicle to grid storage solutions with transportation and demand side management goals and objectives.

Low-carbon Transportation

RCEA will decarbonize regional transportation through efforts to reduce vehicle miles travelled, increase advanced fuel vehicles adoption and fuel efficiency, and expand advanced fuel infrastructure.

Goals: Accelerate the adoption of electric vehicles, with a target of over 6,000 electric vehicles on the road in Humboldt County by 2025 and 22,000 vehicles by 2030. Develop public, workplace, and residential electric vehicle charging infrastructure necessary to support these county-wide electric vehicle 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 emission from transportation by over 65% through reductions in vehicle miles traveled, improved vehicle efficiency, the adoption of electric vehicles, and, where determined to be an effective emissions-reduction strategy, the use of biofuels as a bridge to a full transition to zero-emissions vehicles. Maintain a trajectory of emissions reduction to eliminate the use of fossil fuels by 2050.
REDUCE VEHICLE MILES TRAVELED

Strengthen Broadband Infrastructure. Support efforts to strengthen rural regional broadband infrastructure to facilitate remote access to educational and business opportunities, and deploy advanced, resilient grid management technology and integrated energy efficiency and demand response solutions.

Encourage Transportation-efficient Land Use Planning. Encourage infill, transit-oriented development, and walkable and bikeable communities through thoughtful zoning and land-use planning processes.

Facilitate Multi-modal Transportation Infrastructure. Support improving multi-modal transportation options through regional trail networks, transit infrastructure, and complete streets infrastructure strategies that support walking, biking, carsharing, ridesharing, and the use of public transportation.

INCREASE ADVANCED FUEL VEHICLE ADOPTION & FUEL EFFICIENCY

Support Local Vehicle Fleet Owners Leading by Example. Encourage local government and private fleets to maximize the use of low-carbon vehicles and support low-carbon transportation initiatives at other agencies.

Promote Advanced Fuels. Equitably promote, support and incentivize low carbon vehicle and fuel adoption by local governments, commercial fleets, and the public. Encourage the use of non-fossil sources of advanced fuels that reduce greenhouse gas emissions, which may include electricity, hydrogen, biodiesel, ethanol, and renewable diesel.

Support Electric Vehicle Adoption. Conduct public outreach campaigns to promote electric vehicles. Offer electric vehicle incentives and provide customers with web and in-person decision support when considering the purchase of an electric vehicle. Conduct leadership by example among government agencies.

Promote Efficient Driving Practices. Promote the use of energy-efficient driving practices that improve fuel efficiency, such as moderate speed changes and legal speeds, anti-idling, and traffic-calming features.

Support Shipping Efficiency. Support the implementation of trucking efficiency technologies and best-practices, including idle-reduction technologies, aerodynamic retrofits, and low rolling resistance tires. Support the analysis of other potential transportation modes that could provide efficient shipping alternatives such as barge and rail.
EXPAND FUELING INFRASTRUCTURE

Develop Transportation Electrification Infrastructure. Develop and implement Electric Vehicle charging stations. Provide local incentives for electric vehicle charging infrastructure and prioritize technologies that align with integrated demand-side management goals.

Utilize Biofuels. Promote use of biofuels with low California Low Carbon Fuel Standard (LCFS) scores, particularly those produced with local waste feedstocks.

Streamline Permitting for Electric Vehicle Charging Infrastructure. Encourage local jurisdictions to list vehicle charging as a permitted use across a broad range of zoning classifications. If a zoning review is triggered, consider vehicle charging as an accessory use to another permitted use whenever possible. Develop a standard vehicle charging permitting process.

Promote Vehicle-to-Grid Connection. Promote integration of electric vehicles with the electric grid. Evaluate the development status of vehicle-to-grid interconnect standards and the use of grid-connected or building-connected vehicles for short-term, on-site energy storage, particularly where this can enable islanded operation of critical facilities during grid power outages.

Energy Generation & Utility Services

RCEA will address Humboldt County’s supply-side energy needs through its existing Community Choice Energy (CCE) program and development of new programs and initiatives.

Goals: By 2025 100% of RCEA’s power mix will be from a combination of state-designated renewable energy sources—solar, wind, biomass, small-hydroelectric, and geothermal—and state-designated net zero carbon emission existing large hydroelectric facilities.

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.

Humboldt County can effectively respond to regional and local disruptions to energy supply and distribution systems through modernization of the local electric grid, the deployment of local distributed energy resources, and the development of community microgrids.
POWER RESOURCES

Maximize the Use of Local Renewable Energy to the Extent Technically and Economically Feasible and Prudent. Use the CCE program with its renewable energy targets, and programs supporting distributed energy resources, to achieve this goal.

Minimize Greenhouse Gas Emissions Associated with RCEA’s CCE Program. Procure a power mix that by 2025 has zero greenhouse gas emissions as counted under the California Air Resources Board’s Regulation for the Mandatory Reporting of Greenhouse Gas Emissions, other than emissions from resources meeting California’s Renewable Portfolio Standard. Assess, evaluate, and monitor the short-term and lifecycle emissions from all generation sources to ensure power resources align with RCEA’s greenhouse gas emissions goals.

Act as Community Liaison to Renewable Energy Developers. Using RCEA’s position as a wholesale power purchaser, work with developers on proactive strategies to reduce and mitigate the environmental and community impacts of potential energy projects. Ensure that local projects are developed in such a way that prioritizes community benefits.

Maximize Renewable Energy Content of RCEA’s CCE Program. Procure a power mix that reaches 100% clean and renewable content by 2025.

Ensure Diversity in Local Sources. Pursue development of a diverse, locally produced renewable electricity supply that is price-competitive in the California power market and that can be generated in a way that minimizes adverse environmental and community impacts.

Promote Energy Feasibility Studies. Encourage and support feasibility studies of local wind, solar, hydropower, and ocean energy resources. Make recommendations on preferred alternatives that are consistent with community goals for energy security and sustainability.

Power Resources: Distributed Generation

Designate “Renewable Energy Parks.” Work with County and City planning departments to designate areas of the county preferred for renewable energy development.

Develop Distributed Generation. Encourage studies to identify key locations throughout the county that would benefit from distributed generation systems. Encourage development of responsive distributed generation demonstration sites

Provide Feed-In-Tariff Power Procurement Program for Small Generators. Offer long-term contracts at a market-adjusting rate for Renewable Portfolio Standard eligible renewable energy generators.

Power Resources: Solar

Support Utility Scale Solar Energy Development. Support local efforts to develop solar electric systems in the county. Support development of local training programs for solar contractors and installers. Educate the public about the benefits of solar energy systems. Develop programs that facilitate an increase in the number of solar energy systems in the county.
Procure Local Solar Energy. Contract for local onshore solar energy as part of RCEA’s community choice energy portfolio to the extent economically feasible and compatible with portfolio diversity needs.

Power Resources: Offshore Wind

Develop Offshore Wind Energy. Work with public and private entities to develop offshore wind energy off of the north coast region’s coastline, and support establishing Humboldt Bay as a west-coast hub for the offshore wind industry.

Procure Local Offshore Wind Energy. Contract for local offshore wind energy as part of RCEA’s community choice energy portfolio to the extent economically feasible and compatible with portfolio diversity needs.

Power Resources: Onshore Wind

Promote Large-Scale Wind Energy. Provide information about the potential for cost-effective, commercial-scale wind farms in the county. Educate the public about the benefits and impacts of wind energy systems. Work with utilities, local government, and private companies to develop onshore wind energy projects.

Procure Local Onshore Wind Energy. Contract for local onshore wind energy as part of RCEA’s community choice energy portfolio to the extent economically feasible and compatible with portfolio diversity needs.

Power Resources: Bioenergy

Support Biomass Fuels Reduction and Utilization. Develop strategies and technologies for improved biomass utilization in ways that effectively support restoration objectives and fire management priorities. Coordinate with local agencies, communities, and landowners to develop biomass energy plans that are consistent with sustainable forest management, hazardous fuels reduction, fire safety, and restoration needs.

Procure Local Biomass Energy. Contract with local biomass facilities to provide locally generated renewable power and managing wood waste from mills and, when feasible and appropriate, from forest management and restoration activities. Require and support a high standard of environmental performance from RCEA’s biomass suppliers. Support the deployment of the best-available emissions control technologies. Determine whether, within, recognizing that power producers’ ability to implement such technologies is affected by the context price they are paid for their power.

Pursue Funding for Biomass Best Practices. Establish a fund to support research and demonstration projects leading to best uses of biomass, with the goal of continuing to produce local commercial renewable energy while maximizing community benefits and emissions reductions, and to the extent feasible supporting the forest land management practices and the forest-products sector industry’s need to manage its locally generated waste stream.

Investigate the Impacts of Biomass Emissions. Support research and quantification of the gross and net emissions of greenhouse gases and criteria pollutants associated with local
batteries power generation sector has net-zero greenhouse gas emissions on both a short-term and long-term basis, adjusting energy production, and the potential emissions reductions associated with disposing of biomass feedstocks by other means. Support development of a locally specific model to estimate human exposure to criteria pollutants from biomass power plants under different operating scenarios. Adjust RCEA’s biomass power procurement strategy as needed to ensure net-zero appropriate based on these findings and power producers’ progress in limiting emissions.

Establish a Biomass Technical Advisory Committee. Create a technical advisory committee made up of subject matter experts on biomass energy, the local forest products industry, and health and environmental impacts associated with biomass energy. The committee shall meet periodically and provide a quarterly report to the RCEA Board of Directors on technical feasibility and financial, environmental, and health implications of biomass use alternatives.

Promote Small-Scale Biomass Generation Sites. Monitor feasibility of smaller and/or mobile biomass electric generators fed with wood waste and very small diameter logs (e.g., from thinning for fire safety and timber harvest slash). If/when technology proves feasible and cost effective, promote its use in county areas where appropriate.

Plan for a Long-Term Transition Away from Direct Combustion of Forest-Derived Biomass and Toward Lower-Impact Uses of this Material. Limit procurement of biomass power from existing direct combustion plants to short-to-mid-term contracts. Pursue partnerships with others, including research organizations and interested public agencies, in development of a large-scale pilot project to produce biochar as a means of treating mill waste and sequestering the carbon in this material. Support development of cost-effective biomass gasification facilities for electric and thermal energy production.

Pursue Biogas Development. Support HWMA and others with the development of organic waste digesters. Develop and publicize dairy biogas demonstration sites and work with local farm organizations to promote dairy biogas energy systems where appropriate. Publicize the use of biogas at existing local wastewater treatment facilities and encourage its use at additional facilities where appropriate. Encourage biogas use to produce electricity onsite rather than pipeline injection to support long-term phaseout of natural gas distribution infrastructure and avoid the potential greenhouse gas emission impacts of pipeline leaks. Seek opportunities to aggregate feedstock from dairies, wastewater plants, and food waste streams to achieve economies of scale in developing cost-effective local biogas facilities.

Power Resources: Wave and Tidal

Pursue Wave and Tidal Energy Development. Build on the previous WaveConnect and CalWave projects to explore and evaluate opportunities for local wave and tidal energy research, development, and pilot deployment.

Power Resources: Hydro

Support Existing and New Local Small-scale Hydroelectric Power. Evaluate options for contracting with existing small hydroelectric projects as well as the development of new run-
of-river hydroelectric projects that would be eligible for Renewable Portfolio Standard
designation and compatible with environmental and cultural priorities. Update the Oscar
Larson and Associates’ 1982 assessment of small hydroelectric resource potential in the
county.

UTILITY ENERGY SERVICE

Minimize Energy Interruptions. Work with local utility providers to minimize the impact of power
outages and improve the reliability and resiliency of the local electricity delivery service.

Provide Energy via Direct Access. Explore the feasibility of RCEA acting as an electricity provider
through direct access.

Review Utility Options. Review the effectiveness of the incumbent utility in meeting Humboldt
County’s long-term energy needs and evaluate the feasibility of establishing a local municipal electric
utility or joining a new regional public power entity.

Provide Outstanding Customer Service to RCEA Customers. Ensure that participants in RCEA’s
community choice energy program receive high-quality customer service related to enrollment, rates,
billing, and customer programs supported by CCE program customer funds.

RATES & TARIFFS

Provide Community Choice Energy Program Customer Rate Savings. Provide customer rates
that are affordable and price-competitive with customers’ other electric supply options.

Provide Electricity Buyback from Self Generators. Provide a net energy metering program that
encourages more distributed local generation and more equitably compensates such generation.

Retain and/or Redirect Rate-Payer Dollars Back into Humboldt County. Work to maximize the
amount of ratepayer dollars retained in Humboldt County when taking into consideration local power
procurement, electricity rates, local program spending, and allocations toward building the reserve
fund for RCEA’s Community Choice Energy program.

Provide Match Funding for State, Federal, and Foundation Energy Grants. Support bringing
resources into Humboldt County to pursue CCE community energy goals.

Support Transition to Time of Use Rates. Inform and educate CCE customers on CPUC transition
to default Time Of Use rates. Support customer adoption and transition to time of use electricity
rates.

Provide Education on all Electric Rate Schedule Options. Provide information on all available
electric rate schedules including Net Energy Metering, Time Of Use, and RePower+ (100% renewable energy). Offer electric rate analysis to estimate financial impacts of different rate
schedules. Inform and educate the community of the California Public Utilities Commission’s
transition to default Time Of Use rate schedules.
Provide a 100% Carbon-Free Service Option for CCE Customers. Develop an additional opt-up choice for CCE customers consisting of solar energy and other emissions-free resources, with a portion of the incremental revenues used to underwrite energy programs benefitting community non-profits and/or low income residential CCE participants.

TRANSmission & DistrIbutIon Infrastructure

Facilitate Transmission Assessments and Monitoring. Encourage development of long-term transmission assessments and, if necessary, electrical transmission grid upgrade and/or expansion plans. Monitor local electricity transmission system planning to ensure that projected growth areas are adequately served and to support the development of local renewable energy projects.

Support Upgrade of the Electricity Transmission and Distribution System. Collaborate with PG&E, the California Independent System Operator, and renewable energy developers to upgrade the regional transmission and distribution electrical grid to enable increased development of both utility-scale renewable energy projects and community-scale distributed generation systems, including capability to export surplus renewable electricity from Humboldt County to other areas of the state and to operate Humboldt County’s grid independently during regional emergencies.
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