



# Redwood Coast Energy Authority

633 3<sup>rd</sup> Street, Eureka, CA 95501

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E-mail: [info@redwoodenergy.org](mailto:info@redwoodenergy.org) Web: [www.redwoodenergy.org](http://www.redwoodenergy.org)

**Redwood Coast Energy Authority Office**  
**633 3<sup>rd</sup> St., Eureka, CA 95501**

**July 9, 2019**  
**Tuesday, 6 - 7:30 p.m.**

In compliance with the Americans with Disabilities Act, if you need assistance to participate in this meeting, please contact the Clerk of the Board at the phone number, email or physical address listed above at least 24 hours in advance.

Pursuant to Government Code section 54957.5, all writings or documents relating to any item on this agenda which have been provided to a majority of the Community Advisory Committee, including those received less than 72 hours prior to the Committee's meeting, will be made available to the public in the agenda binder located in the RCEA lobby during normal business hours, and at [www.redwoodenergy.org](http://www.redwoodenergy.org).

PLEASE NOTE: Speakers wishing to distribute materials to the Committee at the meeting are asked to provide 17 copies to the Clerk.

## **COMMUNITY ADVISORY COMMITTEE MEETING AGENDA**

Agenda Item	What / Action	When
1. Open	<div><div>Roll Call:</div><div><div>Norman Bell</div><div>Jerome Carman</div><div>Colin Fiske</div><div>Larry Goldberg</div><div>Pam Halstead</div><div>Tom Hofweber</div></div><div><div>Richard Johnson</div><div>Luna Latimer</div><div>Dennis Leonardi</div><div>Kit Mann</div><div>Craig Mitchell</div><div>Kathy Srabian</div><div>Matty Tittman</div></div><div>Robin Smith, Board liaison</div><div>Review meeting agenda and goals.</div></div>	6 - 6:05 (5 min)
2. Approval of Minutes	Action: Approve minutes of April 9, 2019 Regular Meeting.	
3. Oral Communications	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.	6:05 - 6:10 (5 min)
4. CAPE and Countywide Climate Action Plan Updates	<div>Action: Review and provide input on draft Comprehensive Action Plan for Energy (CAPE) document.</div> <div>Action: Review and provide input on public engagement plan for the CAPE update process.</div>	6:10 – 7:00 (50 min)

5. October Meeting Schedule	<b>Action: Cancel the October 8 regular Community Advisory Committee meeting.</b>	7:00 – 7:05 (5 min)
6. Customer Programs Subcommittee	Solicit volunteers for fiscal year 2019-20 customer programs ad hoc subcommittee.	7:05 - 7:15 (10 min)
7. Member Reports	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.	7:15 - 7:25 (10 min)
8. Close & Adjourn	Summarize actions, outcomes, Board communication items, next steps	7:25 - 7:30 (5 min)

### **NEXT REGULAR MEETING**

*(to be discussed during this meeting)*

Tuesday, October 8, 2019, 6 - 7:30 p.m.

RCEA Offices

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**April 9, 2019**  
**Tuesday, 6 - 7:30 p.m.**

## **COMMUNITY ADVISORY COMMITTEE** **MEETING DRAFT MINUTES**

The agenda for this meeting was posted on April 5, 2019. Community Advisory Committee Chair Matty Tittman called the meeting to order at 6:02 p.m.

Members present: Jerome Carman Vice chair Larry Goldberg Pam Halstead Richard Johnson Luna Latimer (teleconferencing from Orleans, CA) Dennis Leonardi Kit Mann Craig Mitchell Chair Matty Tittman

Members absent: Norman Bell Colin Fiske Tom Hofweber Kathy Srabian

Staff present: Demand-Side Management Director Lou Jacobson Executive Director Matthew Marshall Community Strategies Manager Nancy Stephenson Clerk of the Board Lori Taketa

### **Minutes approval**

Chair Tittman invited public comment. No one came forward to speak. Chair Tittman closed public comment.

**Motion Goldberg, Second Johnson. By roll call vote, the Committee unanimously approved the minutes of the January 8, 2019 Regular Meeting.**

### **Oral Communications**

Chair Tittman invited public comment. No one came forward to speak. Chair Tittman closed public comment.

### **Election of Chair and Vice Chair**

Executive Director Matthew Marshall reported that because committee members with terms expiring in April had not yet been reappointed, it was not possible to elect the upcoming year's chair and vice chair at the Committee's January meeting. All committee members with expiring terms were reappointed by the Board of Directors in February. In the future, staff will initiate the reappointment process earlier so committee officer elections can take place in January.

Chair Tittman invited public comment. No one came forward to speak. Chair Tittman closed public comment.

**Motion Mann, Second Carman. By roll call vote, the Committee unanimously voted to appoint Matty Tittman as Chair, and Larry Goldberg as Vice Chair, of the Community Advisory Committee for terms ending April 14, 2020.**

#### **Humboldt County Climate Action Plan (No action, information only.)**

Civic Spark Fellow Connor McGuigan with the Humboldt County Planning Department made a presentation about the Humboldt County multijurisdictional climate action plan project, a coordinated regional plan involving seven cities within Humboldt County to reduce greenhouse gas emissions. The climate action plan (CAP) involves inventorying greenhouse gas emissions, setting emissions reduction targets that follow State of California targets, and creating a plan to reduce emissions. Mr. McGuigan stated the county-wide CAP approach is efficient given the region's limited resources, that RCEA helped smaller jurisdictions obtain PG&E grants to facilitate their participation and that CAPs going through environmental review help jurisdictions streamline future CEQA process compliance.

The Committee discussed the need for government agencies to update planning policies and adopt streamlined permitting processes to encourage greenhouse gas reducing practices, the ability for local jurisdictions to independently decide how to meet state emissions targets, and how the inventory's emissions figures were derived. Staff stated that the goal is not to meet greenhouse gas targets through declining industry, but to strive for carbon-neutral industry growth. Mr. McGuigan stated that the climate action plan is a good opportunity to set a framework for future development, for how local governments make land use decisions, and for mapping out the next decades in a climate-friendly manner. He stated public workshops on the climate action plan will take place throughout Humboldt County in May.

#### **100% Clean and Renewable Energy by 2025 (No action, information only.)**

Executive Director Matthew Marshall reported that the Community Advisory Committee's recommendation to adopt a 100 percent clean and renewable electricity target by 2025 and to establish a process to obtain public input on the definitions of "clean" and "renewable" were presented to the Board of Directors. The Board adopted a resolution to achieve those goals and directed staff to update the Comprehensive Action Plan for Energy (CAPE), an RCEA guiding document that is referenced in the Humboldt County General Plan. The CAPE update will align with the County-wide Climate Action Plan, will be incorporated into the formal integrated resource plan which RCEA will submit to the California Public Utilities Commission, and will help determine future Community Choice Energy (CCE) program power procurement. RCEA will also participate in community discussions on forest management, biomass energy and forest carbon sequestration as part of the County Climate Action Plan public engagement process.

The Committee discussed how electricity is one part of total energy use, that definitions of "clean" and "renewable" must consider carbon emissions, that DG Fairhaven is unrelated to the offshore wind project, and that the proposed offshore wind project will connect to the electrical grid on Humboldt Bay's south jetty. It was pointed out that the Committee's proposal and the Board's subsequent adoption of the 100 percent renewable resolution demonstrated fulfillment of the Committee's intended role.

#### **CCE-Funded Customer Programs**

Demand-Side Management Director Lou Jacobson reported that community members submitted eight program proposals, staff scored, and Community Choice Energy-Funded

Programs Subcommittee members Carman, Goldberg, Srabian and Tittman further assessed, the proposals. Subcommittee members and staff agreed that the top five scoring projects should be recommended to the Board for consideration. Staff Director Jacobson pointed out that final program implementation for this round will be determined by available funding, existing program continuity, available staffing and program resources. He thanked the subcommittee members for their work over six months to develop evaluation processes for future proposal rounds.

Chair Tittman invited public comment. No one came forward to speak. Chair Tittman closed public comment.

**Motion Mann. Second Johnson. By roll call vote, the Committee recommended that staff advance the five selected abstracts: RCEA CS 001, 002, 004, 006 and 007, for consideration by the RCEA Board of Directors in June. Vice Chair Goldberg recused himself from voting on CS 001 because he authored the proposal.**

### **Member Reports**

Committee vice chair and 350 Humboldt member Goldberg reported that the statewide 350.org group launched a climate crisis legislation campaign to move toward a fossil fuel-free, all-renewable energy California in the near future. Mr. Goldberg further reported that Planet Humboldt is celebrating Alexander von Humboldt's 250<sup>th</sup> birthday on September 13-14, 2019. Mr. Goldberg stated that von Humboldt was one of the first to identify human-caused climate change and confirmed RCEA's participation in the weekend's events.

Executive Director Marshall reported that PG&E's bankruptcy proceedings are not substantively impacting RCEA's Community Choice Energy and Energy Efficiency programs. He stated that it remains to be seen whether PG&E will end its involvement in power generation and focus solely on electricity distribution. Mr. Marshall stated that the power charge indifference adjustment, or exit fee, change to ratepayer bills has been delayed until May or later.

Chair Tittman adjourned the meeting at 7:23 p.m.

Respectfully submitted,

Lori Taketa  
Clerk of the Board

**NEXT REGULAR MEETING**  
Tuesday, July 9, 2019, 6 - 7:30 p.m.  
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# REDWOOD COAST Energy Authority

## COMMUNITY ADVISORY COMMITTEE STAFF REPORT Agenda Item # 4

AGENDA DATE:	July 9, 2019
TO:	RCEA Community Advisory Committee
PREPARED BY:	Matthew Marshall, Executive Director
SUBJECT:	CAPE and Countywide Climate Action Plan Updates

### BACKGROUND

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In September 2012, the Humboldt County Comprehensive Action Plan for Energy (CAPE) was adopted. The CAPE is RCEA's primary strategic planning document and identifies implementation measures specific to fulfilling RCEA's mission, as well as to RCEA's role as the regional energy authority. In April 2019 RCEA initiated the process of updating the CAPE, motivated by several factors:

- The County of Humboldt, with RCEA's assistance, is currently working in coordination with the seven Cities to develop a Humboldt County 2040 Climate Action Plan. Updating the CAPE in parallel with the development of the County-wide Climate Action Plan will allow for more efficient public input and will ensure that RCEA's targets and strategies are aligned with those of the County and the Cities.
- The energy landscape in Humboldt County has changed over the past seven years, and strategies within the CAPE need to be updated to align with this new landscape.
- RCEA has subsequently developed several other strategic planning documents that should be integrated into the CAPE to create a single, streamlined action plan.

The initial step in the CAPE update consisted of a strategic plan audit. Goals and objectives from RCEA's various strategic planning documents were reviewed to determine applicability and inclusion in the new CAPE. In chronological order, these documents include:

- Comprehensive Action Plan for Energy (2012)
- RePower Humboldt: A Strategic Plan for Renewable Energy Security and Prosperity (2013)
- North Coast Plug-in Electric Vehicle Readiness Plan (2014)
- Northwest California Alternative Fuels Readiness Plan (2016)
- RCEA Board-Adopted CCE Program Guidelines (2016)
- North Coast Resource Partnership Resilience and Energy Assessment for Key Assets in Humboldt County (2017)
- North Coast Resource Partnership Climate Mitigation Report for the North Coast Region of California (2018)
- North Coast and Upstate Fuel Cell Vehicle Readiness Project (2019).

Attached is a preliminary draft update to the CAPE that incorporates and integrates strategies from the above planning documents. The strategies have been reorganized into the following focus areas that align with RCEA's current program implementation framework:

1. **Regional Energy Planning & Coordination**, including energy-related economic development, funding, planning, and education.
2. **Integrated Demand Side Management**, covering efforts focused energy efficiency and conservation, demand response, and distributed generation and storage.
3. **Low-Carbon Transportation**, supporting efforts to reduce vehicle miles traveled, increase advanced fuel vehicle adoption and fuel efficiency, and expand fueling infrastructure
4. **Energy Generation & Utility Services**, including strategies addressing utility and energy service, rates and tariffs, transmission & distribution infrastructure, and CCE program power resources.

The draft updated strategies will be presented to the public for input in coordination with the County-wide Climate Action Plan meetings and public input process. Staff will also develop draft quantitative targets for the proposed strategies to establish tangible objectives that can be tracked between now at 2030. The CAPE update timeline is coordinated with the County-wide Climate Action Plan timeline as follows:

Estimated Date	CAPE Activity	Climate Action Plan Activity
June	<ul style="list-style-type: none"> <li>Draft new/updated set of CAPE strategies in preparation for regional public workshop, present to the RCEA Board.</li> <li>Develop public-facing webpage.</li> </ul>	<ul style="list-style-type: none"> <li>Local public workshops for input.</li> </ul>
July	<ul style="list-style-type: none"> <li>Present CAPE update to Community Advisory Committee</li> <li>Present CAPE update at large Climate Action Plan regional workshop (early to mid-July).</li> <li>Incorporate public input into strategies.</li> </ul>	<ul style="list-style-type: none"> <li>Complete final list of GHG reduction measures.</li> <li>Present final list of measures during large regional public workshop (early to mid-July).</li> <li>Stakeholder group meetings.</li> </ul>
August	<ul style="list-style-type: none"> <li>Complete draft of comprehensive CAPE report (strategies and narrative)</li> </ul>	<ul style="list-style-type: none"> <li>Complete draft of comprehensive Climate Action Plan (strategies and narrative).</li> <li>Begin CEQA review of Climate Action Plan.</li> <li>Draft implementation toolkit.</li> </ul>

September to November	<ul style="list-style-type: none"> <li>• Present CAPE during second round of public climate action plan workshops.</li> <li>• Present updated draft to Community Advisory Committee.</li> <li>• Complete final draft of CAPE report.</li> <li>• Present CAPE final Draft to Board for review (September/October).</li> <li>• Present final CAPE to Board for adoption (November).</li> </ul>	<ul style="list-style-type: none"> <li>• Distribute public draft of Climate Action Plan.</li> <li>• Second round of public workshops.</li> </ul>
December 2019/January 2020	<ul style="list-style-type: none"> <li>• Incorporate new CAPE targets/content into the CCE Program's Integrated Resource Plan (update due to the CPUC in spring of 2020).</li> </ul>	<ul style="list-style-type: none"> <li>• Complete draft CEQA Document.</li> <li>• Hold CEQA Public Review Period.</li> </ul>

Staff will present proposed outreach activities at the July 9, 2019, Community Advisory Committee meeting.

#### **STAFF RECOMMENDATION**

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Review and provide input on draft 2019 CAPE update document.

Review and provide input on public engagement plan for the CAPE update process.

#### **ATTACHMENTS:**

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1. RCEA Comprehensive Action Plan for Energy – preliminary 2019 draft update.
2. Proposed outreach activities presentation – *This presentation was not available at the time of agenda and packet publication and will be made available at the July 9, 2019, Community Advisory Committee meeting.*

Humboldt County

# **Comprehensive Action Plan for Energy**

**2019 UPDATE - PRELIMINARY DRAFT**

**6-21-19**



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**Energy**Authority

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# Executive Summary

## SECTION TO BE UPDATED

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 a Comprehensive Action Plan for Energy (CAPE). 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 stated 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 CAPE strategies target the following objectives:

**Regional Energy Planning & Coordination:** Facilitate coordinated strategic energy planning within Humboldt County, provide a forum for addressing countywide energy issues, and assist local jurisdictions with completing greenhouse gas inventories, climate action plans, and general plan energy elements.

**Energy Reliability & Security:** Coordinate with utility providers and other local governments on energy emergency planning and response, evaluate transmission and distribution systems, and conduct a climate change risk assessments and develop adaptation plans.

**Economic Development:** Support the development of emerging energy technologies, attract and support energy-sector businesses and ventures, and provide training and workforce development assistance for jobs in the energy field.

**Built Environment Efficiency:** Develop and implement programs which encourage energy efficiency and renewable energy retrofits in existing buildings, and support local implementation of state-wide energy efficiency standards and goals.

**Education:** Through a variety of channels, provide the community with comprehensive education and information on energy conservation, energy planning, renewable energy, and energy-efficiency.

**Water & Waste:** Support water and waste conservation initiatives that will result in reduce energy demand and or renewable energy generation.

**Transportation:** Encourage energy-efficient, health-promoting modes of travel such as walking, bicycling, and public transit, and support the adoption of alternative fuels.

**Energy Generation & Utility Services:** Promote policies which seek to meet local energy needs with a diversity of renewable energy resources, distributed generation, and cogeneration.

This action plan shall be periodically updated by the RCEA Board and presented to the Humboldt County Board of Supervisors for review.

# Introduction

## ENERGY FUELS OUR EVERYDAY LIVES

### SECTION TO BE UPDATED

In Humboldt County, as in all parts of the United States, we depend on energy 24 hours a day, and we continuously benefit from direct and indirect use of energy resources. Energy is so pervasive in our daily lives that it can sometimes be taken for granted. From the sun we draw heat, light, and solar power; we depend on it to grow our food, forests, flowers, etc. We depend on fossil fuels to get us to work, school, the local shops, and the hospital; to transport our food, commodities, mail, and even garbage; we depend on it to visit exotic places by plane (and to get to the airport), or to visit a friend by car. 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; and to transmit information during this electronic age. 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. Energy generation and transmission is also an industry in and of itself. Clearly, 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.

In Humboldt County, energy is used as a transportation fuel and as electrical and heat energy in homes, businesses, industries, and agriculture. In 2010 it is estimated that Humboldt County spent \$460 million to meet local energy demands, the majority of which left the county. Approximately half of the energy was used as a 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 biomass (wood waste and firewood).

# 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:

- 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.

The CAPE is intended to support achieving these goals through strategies that specifically address: Regional Energy Planning & Coordination, Integrated Demand Side Management, Low-Carbon Transportation, Energy Reliability & Security, Economic Development, Built Environment Efficiency, Education, Water & Waste, Transportation, and Energy Generation & Utility Services.

# VISION STATEMENT

The below vision statement was developed through the public comment process for the original draft of the Energy Element prepared by RCEA. It expresses the community qualities and characteristics that the CAPE aspires to achieve, expressed as how Humboldt County could be described in 2030.

## **In 2030...**

Humboldt County is no longer a net importer of energy. We achieve a high degree of energy independence and self-sufficiency through high levels of energy conservation and efficiency combined with locally-produced and -managed energy generation. Most of our energy comes from renewable sources. Significantly less money spent on energy leaves 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 much more local control over energy prices. We have been able to readily adapt to any major external changes in energy supply or technology.

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

Our overall quality of life is as good as or better than it was in 2005. The population is healthier as a result of leading energy-conserving lifestyles. It is safe, pleasant, economically favorable, and typical 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 is energy efficient through neighborhood design. Good community planning has reduced sprawl. There are fewer automobiles and there is less automobile dependence. Public transportation is conveniently available and well utilized and walking, bicycling and other non-automobile forms of transportation are commonly used. There is much less consumption of energy from non-renewable sources for transportation.

All buildings are energy efficient. All new construction is done in the most energy efficient manner, starting with building design. All existing buildings have been upgraded to be more efficient. Energy efficiency is integral to 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.

# **Draft 2019 Strategies Update**

# 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.

## 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.

## 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 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 Financing Mechanisms.** 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.

## PLANNING

**Support Carbon Sequestration.** Support the development and deployment of mechanisms for retaining carbon in region's abundant natural areas and working lands.

**Assist with Climate Action Planning.** Work with local jurisdictions to complete greenhouse gas inventories, set greenhouse gas reduction targets, and develop climate action plans.

**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 Emergency Management Agency.

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

**Encourage Adoption of Energy Elements.** Encourage the adoption of energy elements in 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.

**Assist with Energy Emergency Response Procedures.** Assist the Humboldt County Office of Emergency Services in the preparation of energy emergency response procedures for the Humboldt County Emergency Response Plan.

**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.

## EDUCATION

**Maintain an Energy Resource Center.** Operate an energy resource center open to the public and provide energy conservation, energy planning, renewable energy, and energy-efficient building design and retrofit information.

**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 Education and Training.** Provide community education on energy issues, including the benefits of reduced energy consumption, and increased energy efficiency. Collaborate with schools and colleges for energy-related research, education, and conservation practices.

# Integrated Demand Side Management

RCEA will use an Integrated Demand Side Management (IDSM) approach to match and enhance customer energy use with intermittent clean and renewable energy supplies. An additional priority will be placed on energy resiliency and independence.

## INTEGRATED DEMAND SIDE MANAGEMENT STRATEGIES

**Support Member Agency and Local Government Energy Management.** Support member agencies in managing their energy consumption. RCEA will support varying activities that reduce and align energy use with available clean and renewable supplies to reduce costs while aligning to performance-based action plans 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 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 or local requirements. Support the consideration and adoption of above code energy ordinances.

**Promote No Regrets Energy Efficiency, Solar and Storage Permitting.** Support local ordinances that streamline permitting processes for energy efficiency, solar and storage technologies.

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

**Support Zero-Net-Energy Standards.** Support the State's goals related to residential and commercial net-zero-energy standards along with other green building standards that align to RCEA's IDSM strategies.

**Conduct Community Engagement.** Provide community facing information and resources that will support informed decision making as relating to customer energy use.

**Support Energy Assessments.** Support and encourage full knowledge of the costs and benefits (including product stewardship) of energy efficiency, conservation, generation and storage activities through assessments.

**Integrate Distributed Energy Resources.** Support, promote and integrate distribution-connected generation, energy storage, energy efficiency, electric vehicle and demand response technologies into new and existing customer facing programs.

**Integrate a Distributed Energy Resource Management System.** Integrate distributed energy resources into a unified system that can aggregate or automate demand response activities.

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

**Use Advanced Metering Infrastructure.** Use advanced metering infrastructure to make informed, data driven program decisions.

## ENERGY EFFICIENCY & CONSERVATION

RCEA will support energy efficiency and conservation as core strategies toward achieving the program's environmental, economic, and community goals. Where feasible, energy efficiency technologies will be controllable and integrated as a distributed resource. RCEA will:

**Support electrification.** Prioritize new programs and alterations to existing services that promote the use of air-source heat pump domestic hot water and space heaters, induction stoves and clothes dryers.

**Encourage Energy-Efficient Equipment.** Encourage the use of the most energy-efficient equipment for space and water heating, ventilation, lighting, refrigeration, and air conditioning in all buildings and developments, including residential and commercial 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, Commissioning and Operations (BROs).** Develop, promote and support programs that promote conservation, building system commissioning and operational changes that reduce or change the time of energy use.

**Replace Plug Loads.** Replace existing plug load devices and install line signaling smart technologies that save energy and provide an integrated solution that aligns with demand response and storage measures. Example include internet of things enabled lighting, water and space conditioning, dish and clothes washing and refrigeration.

## DEMAND RESPONSE

RCEA will support and prioritize demand response programs that give ratepayers an opportunity to play a role in balancing energy load with renewable energy supply. Demand response programs and offerings will, where possible, integrate with distribution connected efficiency, solar and storage measures.

**Support Time of Use.** Notify, support and enable action from customers who express an interest in load shifting or shaving to reduce evening hour coincident demand.

**Provide and Support Peak Day Pricing.** Notify and support customer energy use changes during summer peak day events.

**Enable Automated Demand Response.** Install electrification, efficiency, and storage technologies that automatically reduce energy use during demand response events.

**Implement Grid Connected Buildings.** Implement grid connected buildings that allow for the curtailment of loads in descending order of priority.

## DISTRIBUTED GENERATION & STORAGE

RCEA will support the deployment of distribution connected solar and storage technologies as core strategies toward achieving the program's environmental, economic, and community goals.

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

**Administer and Implement the 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 IDSM 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.

## 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 process.

**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, and the use of public transportation.

## INCREASE ADVANCED FUEL VEHICLE ADOPTION & FUEL EFFICIENCY

**Electrify Transportation.** Encourage local government and private fleets to maximize the use of low-carbon vehicles. Provide local incentives for electric vehicles.

**Promote Advanced Fuels.** Encourage the use of non-fossil sources of advanced fuels that reduce greenhouse gas emissions, which may include hydrogen, biodiesel, ethanol, and renewable diesel.

**Promote PEV Adoption.** Conduct public outreach campaigns to promote EV driving; fleet analysis. Provide web and in-person decision support. Conduct leadership by example among government agencies. Support low-carbon transportation initiatives at other 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 (EV) charging stations. Provide local incentives for EV charging infrastructure.

**Develop Biofuels.** Promote use of waste oils and other biomass sources for biofuels production. Focus on waste oils and other biomass that are not already being used for other purposes, and explore potential opportunities and issues of new technologies for biofuels production from local resources.

**Streamline Permitting for PEV Charging Infrastructure.** List PEV charging as a permitted use across a broad range of zoning classifications. If a zoning review is triggered, consider the EVSE as an accessory use to another permitted use whenever possible. Develop a standard EVSE permitting process that can be used across the North Coast Region, etc.

**Promote Vehicle-to-Grid Connection.** Promote integration of motor vehicles with the electric grid, including battery electric vehicles, fuel-cell vehicles, plug-in hybrid electric vehicles, and solar electric vehicles. Evaluate development status of vehicle-to-grid interconnect standards and the use of grid-connected vehicles for short-term energy storage.

## Energy Generation & Utility Services

RCEA will address supply-side energy needs for Humboldt County through its existing Community Choice Aggregation program and development of new programs and initiatives as appropriate.

## POWER RESOURCES

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

**Minimize Greenhouse Gas Emissions Associated with RCEA's CCA Program.** CCA power mix has, at least, a 5% lower greenhouse gas emission rate than PG&E mix.

**Reduce Regulatory Barriers.** Support efforts to increase the efficiency of the energy systems permitting process and reduce any excessive regulatory barriers to renewable energy and distributed generation projects. Work to develop proactive strategies to reduce and mitigate the environmental and community impacts of potential energy projects.

**Maximize Renewable Energy Content of RCEA's CCA Program.** CCA power mix is at least 5% more renewable energy (as defined by state law) than PG&E's power mix and reaches 100% clean and renewable content by 2025.

**Ensure Diversity in Local Sources.** Pursue development of a diverse, locally produced energy supply, with an emphasis on renewable resources, that is price-competitive in the California market and that can be generated in a way that minimizes adverse environmental impacts.

**Promote Energy Feasibility Studies.** Encourage and support feasibility studies of local wind, solar, hydro-power, and ocean energy resources. Make recommendations on preferred alternatives that are consistent with the County's 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 facilities throughout the county that would benefit from distributed generation and cogeneration energy systems. Encourage development of responsive environmentally preferable distributed generation and cogeneration energy systems where appropriate. Encourage and publicize demonstration sites.

**Provide Education on Renewable Energy and Distributed Generation.** Provide educational and promotional programs that encourage and demonstrate the use of renewable energy and environmentally preferable distributed energy generation and cogeneration systems.

**Provide Feed-In-Tariff Power Procurement Program for Small Generators.** Offer long-term contracts at a set rate for Renewable Portfolio Standard-eligible renewable energy generators of 1MW or smaller.

## **Power Resources: Solar**

**Support Solar Energy Development.** Support local efforts to develop solar electric systems and solar hot water 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.

## **Power Resources: Offshore Wind**

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

## **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.

## **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.

**Contract for 20MW Local Biomass Energy.** Contingent on price and market conditions, contract for a target of around 20MW of local biomass energy.

**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 in National Forest areas). If/when technology proves feasible and cost effective, promote its use in county areas near National Forests where existing electric transmission lines are available.

**Pursue Biogas Development.** Support HWMA and others in the development the development of a food waste digester. 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.

## **Power Resources: Wave and Tidal**

**Pursue Wave and Tidal Energy Development.** Build on the previous WaveConnent 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 small-scale run-of-the-river hydroelectric projects that would be compatible with environmental and cultural priorities. Encourage appropriate local agencies to prepare an updated assessment of small hydroelectric resources potential in the county.

# **UTILITY ENERGY SERVICE**

**Minimize Energy Interruptions.** Work with local utility providers to minimize impact of power outages.

**Provide Energy via Direct Access or Core Transport Agent Agreements.** Explore the feasibility of RCEA acting as an electricity provider through direct access and/or acting as a natural gas core transport agent for local energy customers.

**Review Utility Options.** Review the effectiveness of PG&E in meeting Humboldt County's long-term energy needs, and evaluate the feasibility of establishing a local municipal electric utility.

## RATES & TARIFFS

**Provide Community Choice Aggregation Program Customer Rate Savings.** Provide customer savings relative to corresponding PG&E generation rates and with PG&E PCIA fees factored in averaging at least \$2 million per year.

**Provide Electricity Buyback.** 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 rate-payer dollars redirected back into Humboldt County when taking into consideration local power procurement, customer rate savings, local program spending, and allocations toward building the reserve/contingency fund for RCEA's Community Choice Aggregation program.

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

**Support Time of Use Rates.** Support customer transitions to time of use rates.

## TRANSMISSION & DISTRIBUTION INFRASTRUCTURE

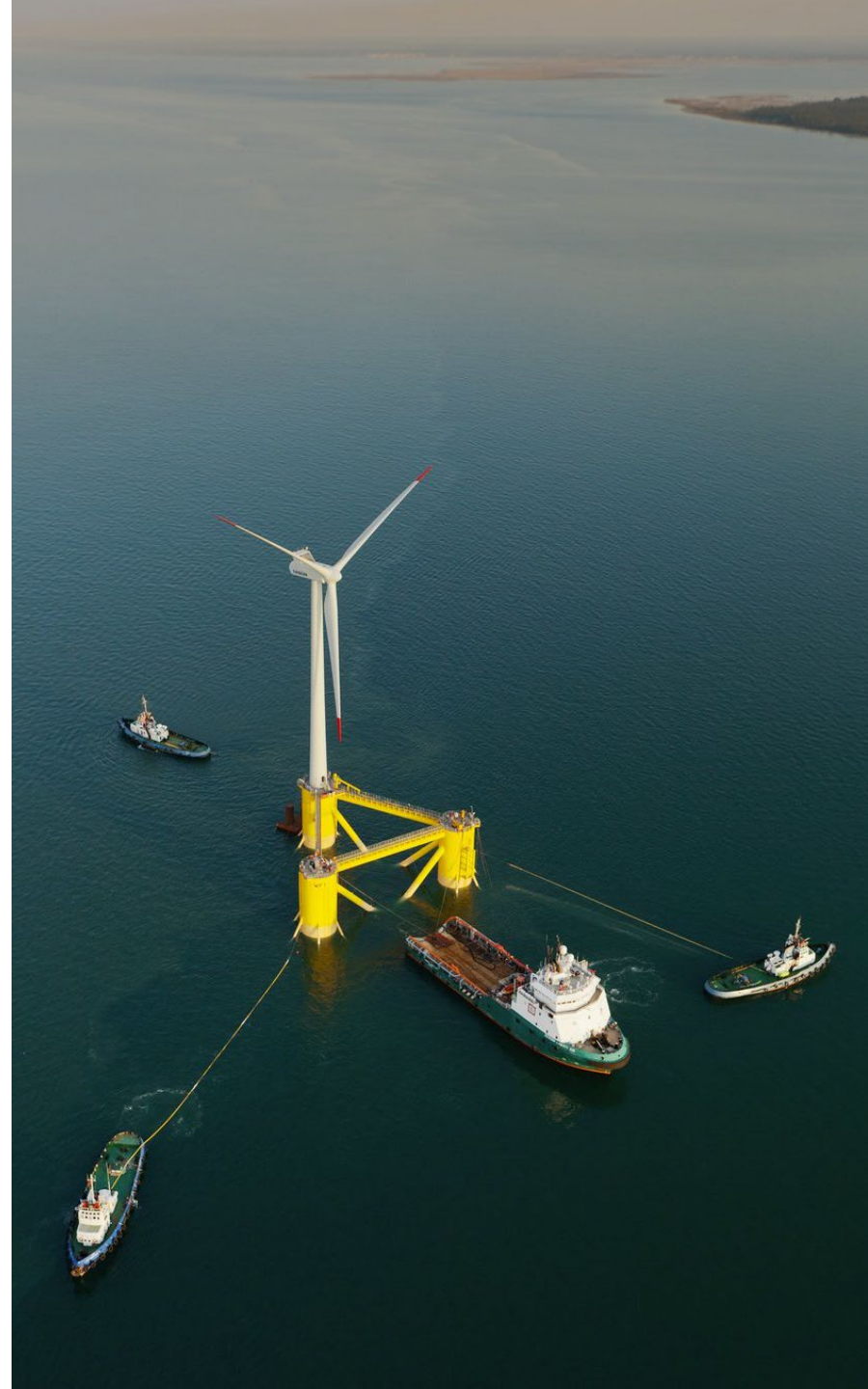
**Perform Transmission Assessments and Monitoring.** Encourage development of long-term transmission assessments and, if necessary, electrical transmission grid expansion plans. Monitor local electricity transmission system planning to ensure that projected growth areas are adequately served and to support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

**Upgrade the Electricity Transmission and Distribution System.** Upgrade the regional transmission and distribution electrical grid to enable increased development of both utility-scale renewable energy projects as well as community-scale distributed generation systems, including capability to export surplus renewable electricity generation from Humboldt County to other areas of the state.

# Materials Received After Agenda Publication

# RCEA Comprehensive Action Plan for Energy

2019 Update



# Existing RCEA planning documents

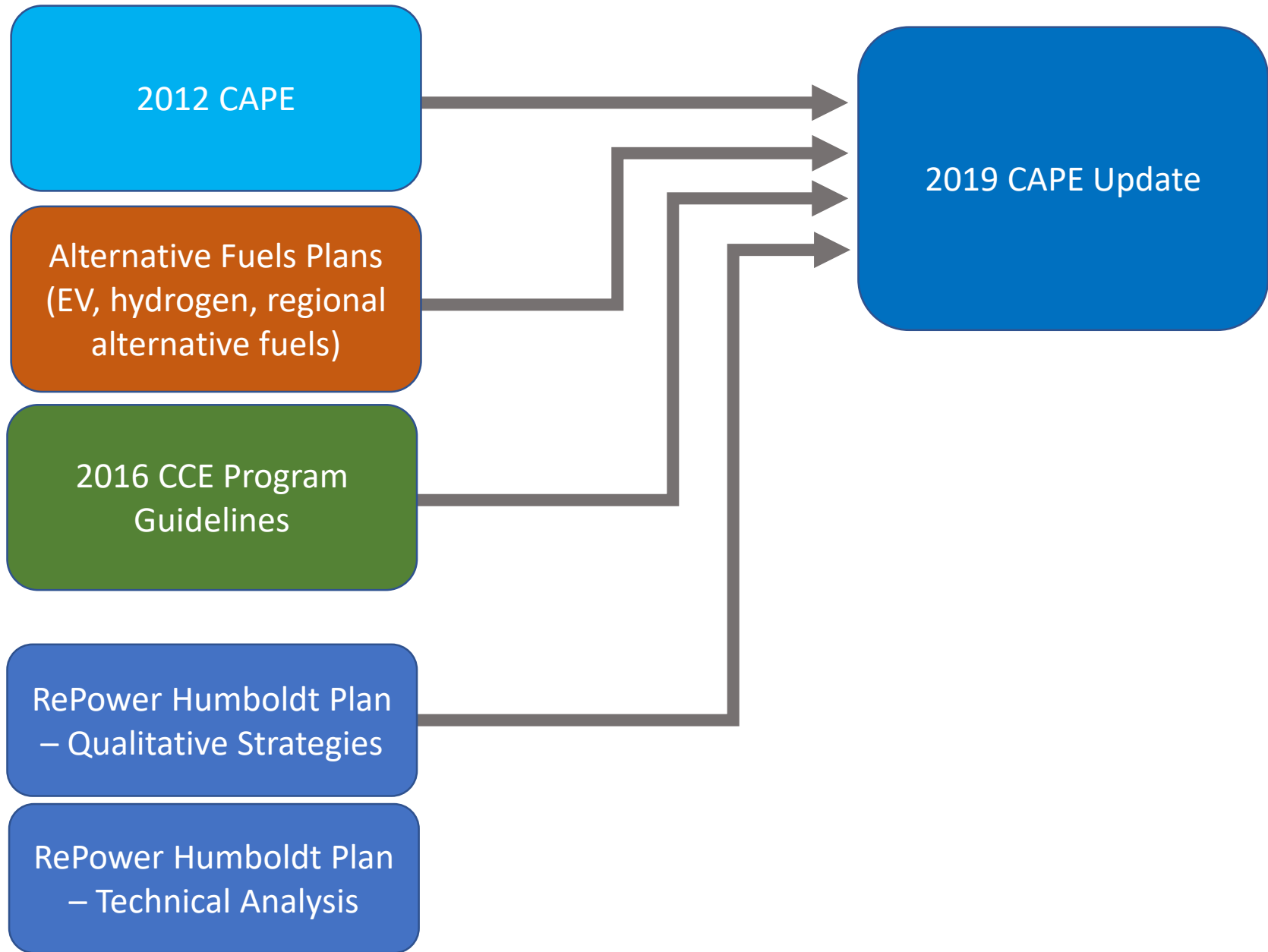
2012 CAPE

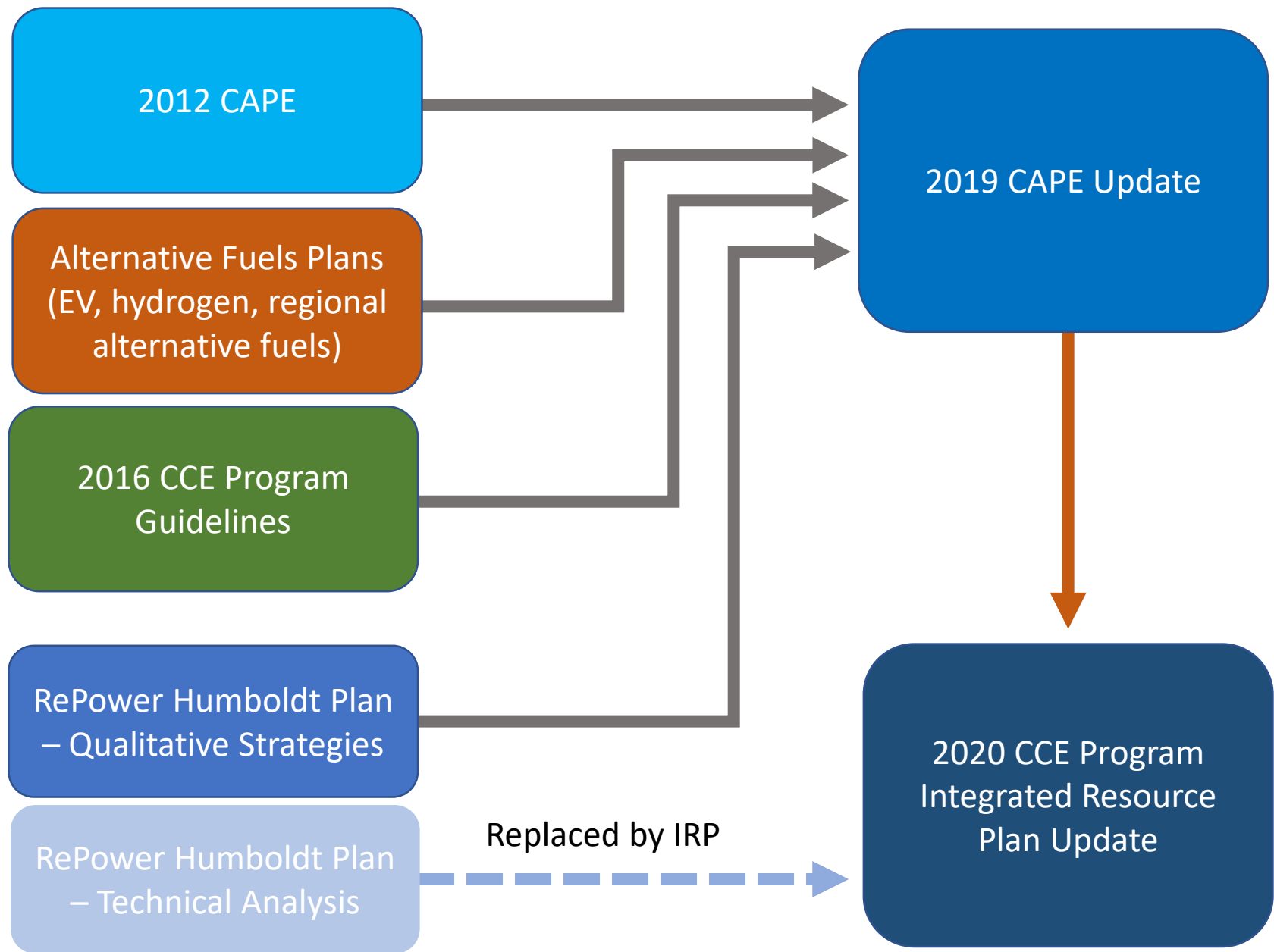
Alternative Fuels Plans  
(EV, hydrogen, regional  
alternative fuels)

2016 CCE Program  
Guidelines

RePower Humboldt Plan  
– Qualitative Strategies

RePower Humboldt Plan  
– Technical Analysis

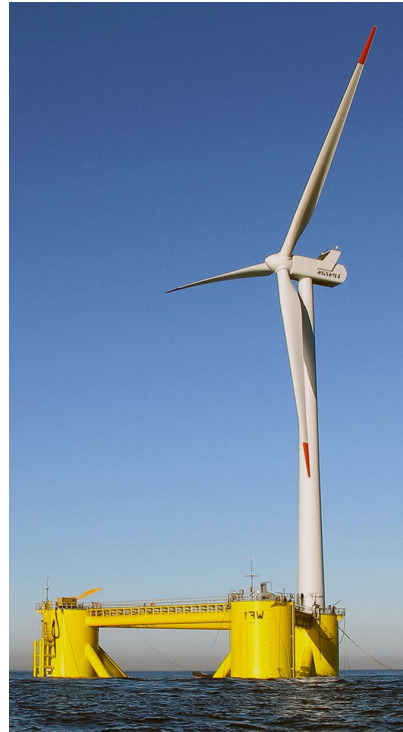




# Strategies regrouped into 4 areas



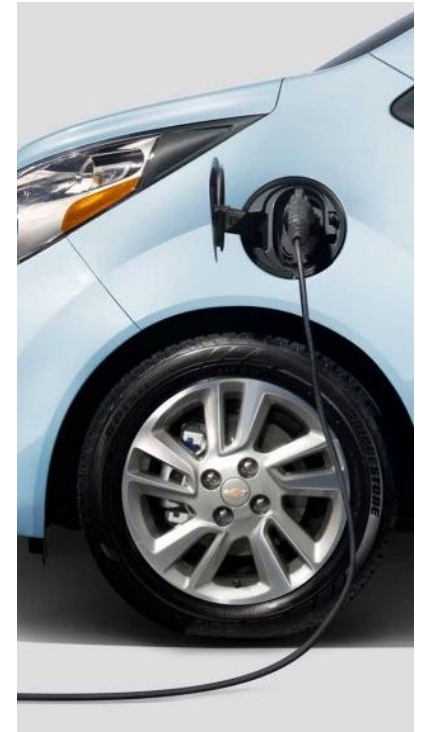
**Regional  
Planning &  
Coordination**



**Energy  
Generation &  
Utility Services**



**Integrated  
Demand Side  
Management**



**Low-carbon  
Transportation**

# Next Steps

In general: coordinate and align with County-wide Climate Action Plan development efforts

Supplement Climate Action Plan outreach with CAPE-specific public input process to:

- Refine high-level strategies
- Develop quantitate targets
- Define and refine power portfolio objectives to address Board target of 100% “clean and renewable” 2025 electricity mix to be used in RCEA’s IRP.
- Coordinating with County staff to develop a focused public engagement “track” to specifically address the complexity of the role of forest lands in climate action planning
  - carbon sequestration, fire management, forest products, local jobs, biomass energy, etc.



# Process & Timeline

- **July 9 RCEA Community Advisory Committee Meeting: get input/guidance from CAC on public engagement plan**
- Present preliminary CAPE draft at County-wide Climate Action Planning workshop on July 24.
- Present CAC-recommended engagement plan at July 25 RCEA Board meeting.
- Aug-Nov conduct additional public engagement and refine/finalize CAPE update.





# Agenda Item 4

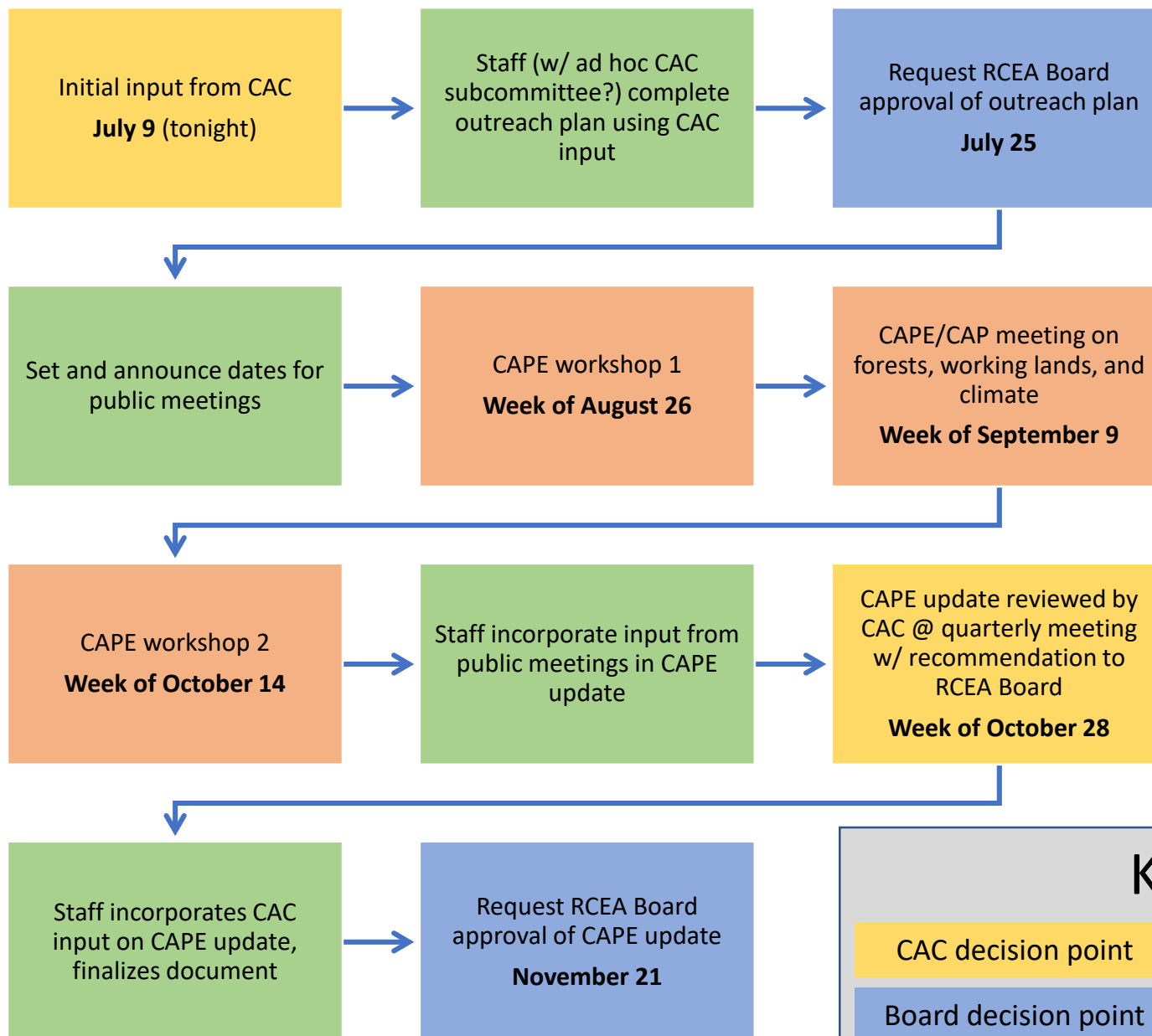
## Comprehensive Action Plan for Energy Process and Timeline for Community Engagement

Community Advisory Committee Meeting  
July 9, 2019



REDWOOD COAST  
**EnergyAuthority**

# CAPE Community Engagement



## Proposed Process and Timeline

### Key

CAC decision point

Staff activity

Board decision point

Public event

29

# Key Questions for the Committee

- Do you agree to the proposed timeline? Are there any changes you wish to propose?
- Do you wish to form an ad hoc subcommittee to work with staff on planning CAPE public engagement, or would you rather leave this to staff?
- In addition to the proposed workshops, what other outreach strategies should RCEA use? e.g.:
  - Provide comment period to submit written input
  - Perform professional public opinion survey
  - Launch education campaign (push messages out to community about current RCEA strategies)



# REDWOOD COAST Energy Authority

## COMMUNITY ADVISORY COMMITTEE STAFF REPORT Agenda Item # 5

AGENDA DATE:	July 9, 2019
TO:	RCEA Community Advisory Committee
PREPARED BY:	Lori Taketa, Clerk of the Board
SUBJECT:	Rescheduling the October 8 Regular CAC Meeting

### SUMMARY

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The Community Advisory Committee's next regularly scheduled meeting takes place on the evening of October 8, which is the beginning of Yom Kippur/Day of Atonement, a major Jewish holiday. The Committee may wish to cancel this meeting.

The Committee may also wish to schedule special meetings in order to accomplish some community engagement goals related to the Comprehensive Action Plan for Energy update.

### STAFF RECOMMENDATION

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Cancel the October 8, 2019, regular Community Advisory Committee meeting.

### ATTACHMENTS:

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None

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**COMMUNITY ADVISORY COMMITTEE  
STAFF REPORT  
Agenda Item # 6**

AGENDA DATE:	July 9, 2019
TO:	RCEA Community Advisory Committee
PREPARED BY:	Lou Jacobson, Demand-Side Management Director
SUBJECT:	CCE-Funded 2019-20 Customer Programs Ad Hoc Subcommittee

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**BACKGROUND**

At its April 2018 meeting, the RCEA Board of Directors approved a selection process for Community Choice Energy-funded customer programs that adhered to the Community Choice Energy Program Launch-Period Strategy and Targets program guidelines. Phase I solicited proposals from staff, tested a preliminary evaluation process and incorporated Community Advisory Committee input into project implementation. The following programs were funded during the 2018-19 fiscal year:

- Public Agency Solar Program,
- Residential Energy Services,
- Electric Vehicle Fast Charging Cluster Match Funding Program,
- Rebate Catalog of Energy Efficiency Incentives.

Staff and an ad hoc CAC Programs Subcommittee, which was formed in August 2018, collaborated to identify a program selection timeline and further develop the selection process and scoring matrix. The subcommittee and staff successfully led the program through a second phase of community solicitation, proposal evaluation and budgeting, which culminated in Board approval in May 2019 and subsequent funding in June of the following new ratepayer programs:

- E-bike and Scooter Incentives,
- Green Your Grow Incentives,
- Grocery Store Refrigerants,
- Mobile Home Solar.

The ad hoc CCE-Funded Customer Program Subcommittee sunsetted after the CAC approved its recommended list of proposed programs this year. Staff sees a continued need for community input on program priorities given staff and funding availability and requests the formation of another ad hoc subcommittee to advise staff through the program's next phase.

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**STAFF RECOMMENDATION**

Staff requests up to 4 Community Advisory Committee volunteer members to serve on an informal CCE-Funded Customer Programs Ad Hoc Subcommittee through April 2020.

**ATTACHMENTS:**

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None

## USEFUL ACRONYMS/TERMS TO KNOW

BOD	Board of Directors
BOEM	Bureau of Ocean Energy Management, an agency within the U.S. Department of the Interior
CAC	RCEA's <a href="#">Community Advisory Committee</a> – a 15-member citizen volunteer committee who support RCEA public engagement efforts and provide decision-making support and input to the RCEA Board.
CAEECC	California Energy Efficiency Coordinating Committee
CAISO	California Independent Systems Operator, a non-profit entity overseeing operation of California's bulk electric power system, transmission lines and electricity market generated and transmitted by its member utilities
CalCCA	The California Community Choice Association, an organization advocating for the development and sustainability of locally-run Community Choice Aggregation electricity providers.
CAP	Climate action plan, a detailed and strategic framework for measuring, planning, and reducing greenhouse gas emissions and related climatic impacts.
CAPE	RCEA Board-adopted <a href="#">Comprehensive Action Plan for Energy</a> , supports achieving energy-related goals in Humboldt County. This is a guiding document for RCEA.
CARE	PG&E's California Alternate Rates for Energy program, provides gas and electricity discounts for income-qualified customers
CCA	Community Choice Aggregation, a legal term used by the State of California
CCE	Community Choice Energy
CEC	California Energy Commission, the state's primary energy policy and planning agency
CEQA	California Environmental Quality Act, a statute requiring state and local agencies to identify the significant environmental impacts of their actions and to avoid or mitigate those impacts, if feasible.
CPUC	The California Public Utilities Commission regulates privately owned electric, natural gas, telecommunications, water, railroad, rail transit, and passenger transportation companies, in addition to authorizing video franchises.
DSM	Demand-Side Management, also known as demand-side response or energy demand management, is the modification of consumer demand for energy through various methods such as financial incentives and behavioral change through education.

ERRA	Energy Resource Recovery Account
FERA	PG&E’s Family Electric Rate Assistance Program, provides electricity discounts for income-qualified customers
FY	Fiscal Year – RCEA operates on a July 1 – June 30 fiscal year
GHG	Greenhouse gas
IOU	Investor Owned Utility (e.g. PG&E)
JPA	Joint Powers Authority, an entity allowing two or more public agencies to jointly exercise common powers. RCEA is a joint powers authority.
MW	Megawatt (Power = how fast energy is being used at one moment)
MWh	Megawatt-hour (Energy = how much energy is used over time)
NEM	Net Energy Metering, self-generation power credited to customer’s bill
PACE	Property Assessed Clean Energy financing, a means of financing energy efficiency upgrades, disaster resiliency improvements, water conservation measures, or renewable energy installations of residential, commercial, and industrial property owners.
PCIA	Power Charge Indifference Adjustment <i>(This fee is intended to ensure that customers who switch to RCEA pay for certain costs related to energy commitments made by PG&amp;E prior to their switch.)</i>
PV	Photovoltaics for making electric energy from sunlight
Prop 39	California Proposition 39, the California Clean Energy Jobs Act allocating revenue to local educational agencies to support energy efficiency and alternative energy projects.
RCAA	Redwood Community Action Agency, locally-based, private nonprofit providing weatherization and energy-efficiency services to low- and moderate-income Humboldt County residents
RCEA	Redwood Coast Energy Authority
REC	Renewable energy certificates, also known as “green tags” or “green credits,” represent the environmental attributes associated with a megawatt-hour of clean, green energy.
REN	Regional Energy Network, a new model, under the CPUC, for local governments to administer energy efficiency programs outside the traditional investor-owned utility-administered paradigm.

REpower	RCEA's community choice energy default electricity service costing slightly less than PG&E's electricity and offering a slightly higher percentage of renewable energy
REpower+	RCEA's community choice energy premium service offering 100% renewable energy
RFP	Request for Proposal
TOU	Time of Use, used to refer to rates that differ by time of day
WECC	Western Electricity Coordinating Council
WREGIS	Western Renewable Energy Generation Information System – a system that tracks renewable energy generation from registered units

See also the California Energy Commission's extensive glossary of energy terms at <http://www.energy.ca.gov/glossary/>.

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