



Redwood Coast Energy Authority

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

Redwood Coast Energy Authority Office
633 3rd St., Eureka, CA 95501

October 9, 2018
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.

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	When
1. Open	<u>Roll Call:</u> Norman Bell Jerome Carman Colin Fiske Larry Goldberg, vice chair Pam Halstead Tom Hofweber Michael Sweeney, Board Liaison Richard Johnson Luna Latimer Dennis Leonardi Kit Mann Craig Mitchell Kathy Srabian Chair, Matty Tittman Review meeting agenda and goals	6 - 6:05 (5 min)
2. Approval of Minutes	Approve minutes of August 21, 2018 Special Meeting	6:05 - 6:10 (5 min)
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.	
4. Humboldt Wind Energy Project	Terra-Gen presentation (by phone)	6:10 - 6:35 (25 min)
5. CCE Customer Program Proposal Timeline, Process Presentation	Recommend proposed timeline and two-step solicitation process for Board approval	6:35 - 7:05 (30 min)

6. Updates	Offshore wind project, Repower Humboldt Strategic Plan, CCE Customer Program implementation	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

Tuesday, January 8, 2019, 6 - 7:30 p.m.
RCEA Offices
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August 21, 2018
Tuesday, 6 - 7:30 p.m.

COMMUNITY ADVISORY COMMITTEE **SPECIAL MEETING DRAFT MINUTES**

The agenda for this meeting was posted on August 14, 2018. Staff Executive Director Matthew Marshall called the meeting to order at 6:04 p.m.

Members present: Norman Bell, Jerome Carman, Colin Fiske, Larry Goldberg, Pam Halstead, Tom Hofweber, Richard Johnson, Dennis Leonardi, Craig Mitchell, Kathy Srabian, Matty Tittman and Board Liaison Michael Sweeney.

Members absent: Kit Mann, Luna Latimer.

Staff present: Executive Director Matthew Marshall, Community Strategies Manager Nancy Stephenson, Clerk of the Board Lori Taketa.

Approve minutes of July 10, 2018 Regular Meeting

Executive Director Marshall invited public comment. No one came forward to speak. Executive Director Marshall closed public comment.

Motion Tittman. Second Goldberg. By consensus, the Committee agreed to approve minutes of the July 10, 2018 regular Community Advisory Committee meeting.

Oral Communications

Executive Director Marshall invited public comment. No member of the public was present to speak. Executive Director Marshall closed public comment.

Revised Community Advisory Committee Charter

Executive Director Marshall reviewed the draft amended Community Advisory Committee Charter and stated that changes to the Committee's previously adopted Charter aimed to streamline the document.

The group discussed that Committee members could work on assignments between meetings if they did so as a non-quorum group or subcommittee, that the quorum was reduced to the standard 50% plus one number because the original Committee requested a supermajority since the original committee had only a small, pre-set number of meetings scheduled, that the previously deleted meeting procedures section should be added back in and that "CCA" should be changed to "CCE" consistently throughout the document.

It was further clarified that member terms go through April of each year, that the Board of Directors was responsible for CAC member recruitment and appointment, and that Committee members' recommendations for the vacant positions would probably be welcomed by the Board.

Executive Director Marshall invited public comment. No member of the public was in attendance. Executive Director Marshall closed public comment.

Motion Johnson. Second Tittman. By consensus, the Committee approved the amended Community Advisory Committee Charter with the addition of the meeting procedures section and correction of CCA to CCE.

Chair/Vice Chair Selection

Matty Tittman stated that he would be happy to serve as chair. Larry Goldberg stated he would be willing to serve as vice-chair.

The group discussed that if a topic came before the Committee for which there would be a perceived conflict of interest, either or both chair and vice-chair should recuse themselves from the discussion and decision-making processes. In that instance, it was discussed that another committee or staff member should facilitate.

Executive Director Marshall invited public comment. No member of the public was present to speak. Executive Director Marshall closed public comment.

Motion Bell. Second Leonardi. By consensus, the Committee agreed to appoint Matty Tittman as chair and Larry Goldberg as vice-chair of the Community Advisory Committee, serving terms through April 2019.

Update on Board Action on CCE-Funded Customer Programs (Information only)

Executive Director Marshall reported that the RCEA Board of Directors approved the three Community Choice Energy-funded customer programs that were presented at the CAC's July meeting. Mr. Marshall stated that the Committee's task at its next meeting in October will be to agree on recommendations for the outreach and proposal selection process for next year's CCE-funded programs and that the selection timeline should coordinate with the Board's budget setting process, be geared toward program sectors identified in the Board's Community Energy Launch-Period Guidelines, and incorporate lessons learned from the staff's recently completed, internal program selection process.

Executive Director Marshall proposed the following timeline:

October 2018 -- CAC refines program selection process

January 2019 – CCE rate setting, rough budget for CCE-funded programs determined

January - May 2019 – CAC solicits and selects program finalists to present to Board

May 2019 – Staff presents draft budget and proposed programs to Board. Board approves CCE-funded programs.

June 2019 –Board finalizes FY 2019/20 budget, CCE-funded customer programs funded.

The group discussed ways to solicit public participation in the program proposal process, targeting energy professionals and other stakeholders for proposals, publicizing the project timeline well so people know when and how to participate, holding workshops, and developing a simple proposal form that staff can use to provide more in-depth analysis.

It was decided that before the next CAC meeting staff will work with a subcommittee comprised of Chair Tittman, Vice-Chair Goldberg, and members Jerome Carman and Kathy Srabian to

refine a proposal process and timeline for the entire Committee to consider on October 9, and to propose to the RCEA Board at their October 15 meeting.

Member Reports

Vice-Chair Goldberg attended a Terra-Gen onshore wind project meeting and stated the Committee should be informed about the project.

A discussion ensued on RCEA's relationship to Terra-Gen's onshore wind project, Humboldt County's electricity transmission limitations, basic mechanics and statewide management of the electric grid, the challenges of and possible scenarios for grid upgrades, the status and timing of RCEA's offshore wind project development, and the Bureau of Ocean Energy Management's statewide offshore wind lease area assessments. The Committee also discussed the benefits and costs of developing battery storage capacity to support integrating renewable energy generation onto the local power grid and the relative wholesale costs for brown power, in-state renewables and other renewable energy.

Summarize actions, outcomes, Board communication items, next steps

For the October CAC meeting, Executive Director Marshall stated that he will:

- follow up with the subcommittee on a timeline and proposal process for CCE-funded customer programs,
- ask Terra-Gen representatives to provide a short presentation,
- be prepared to give an update on the offshore wind project progress,
- give a general update on the Repower Humboldt Strategic Plan, and
- report on Community Choice Energy-funded customer program implementation.

Staff will email members Fair Political Practices Commission Form 700s to fill out in compliance with RCEA's Conflict of Interest Code, and Executive Director Marshall will email members previously published staff reports from RCEA Board meetings on the costs of purchasing wholesale brown power, in-state renewable and other renewable electricity.

Community Strategies Manager Stephenson will enroll Committee members to receive RCEA email newsletter.

Executive Director Marshall adjourned the meeting at 7:29 p.m.

Respectfully Submitted,

Lori Taketa
Clerk of the Board

NEXT REGULAR MEETING
Tuesday, October 9, 2018, 6 - 7:30 p.m.
RCEA Offices
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Materials Submitted After Agenda Publication

Presentation Materials
for Item #4:
Humboldt Wind Energy Project

Humboldt Wind Project

Redwood Coast Energy Authority

Community Advisory Committee

October 9, 2018



HUMBOLDT WIND PROJECT



Who is Terra-Gen

Terra-Gen

- Privately Held, Renewable Energy Company
- Based in San Diego, CA
- Most experienced renewable energy developer in CA
- 19 projects representing over 40% of all CA projects
- Developed, Built, & Operated largest wind farm in world
- Experience cooperating w/ multiple agencies & jurisdictions



Project Overview



Size

Up to 60 Turbines

Up to 155 MW

Location

Southern Humboldt County

Monument Ridge

Land

HRC & Russ Ranch (turbines)

Others (gen-tie)

Interconnection

PG&E Bridgeville Substation

24 miles from project site

Permitting

In CEQA Process

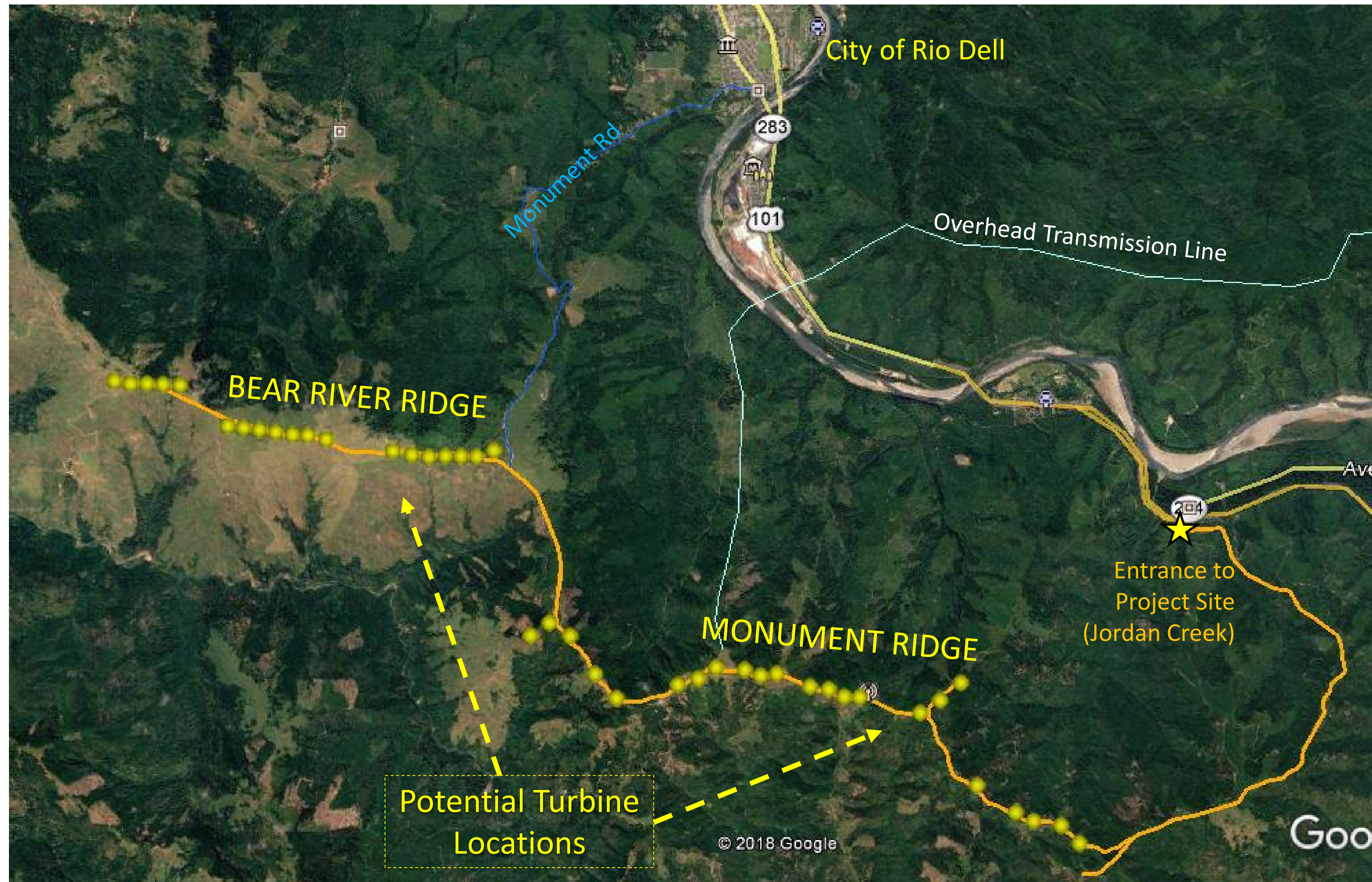
Draft EIR (2019)



HUMBOLDT WIND PROJECT



Map



HUMBOLDT WIND PROJECT



Bird & Bat Studies (ongoing)

**Small Bird Use
Count Surveys**

**Eagle Use Count
Surveys**



**Nesting Bald &
Golden Eagle
Aerial Surveys**

**Marbled Murrelet
(MAMU) Radar
Surveys**

**MAMU &
Northern Spotted
Owl Habitat
Assessment**

**Bat Acoustic
Detector Surveys**



HUMBOLDT WIND PROJECT



Benefits



Jobs

Up to 300 Construction Jobs

Up to 15 Permanent Jobs

Environmental

372,000 Metric Tons of CO2 avoided

Equivalent of 80,000 cars removed

Property Tax

First 10 years: \$25M

Life of Project: \$76M

Sales Tax

During Construction: \$5.3M

Life of Project: \$7.7M



HUMBOLDT WIND PROJECT



Local Roads & Decommissioning

Equipment Transport

Fields Landing to Jordan Creek off Hwy 101

Decommissioning

Per lease, Terra-Gen required to post decommissioning bond
Terra-Gen is NOT a public utility



Visual Simulations from Rio Dell

Monument Ridge

without Turbines

Monument Ridge

Highway 101, Looking southwest to Monument Ridge @ 5.7mi

with Turbines



HUMBOLDT WIND PROJECT



Overhead Lines



Example of Gen-Tie Corridor



HUMBOLDT WIND PROJECT



Testimonial from Kern County, CA

Lorelei H. Oviatt AICP

Director - Planning and Natural Resources

“They go beyond the minimum and are working with the US Fish and Wildlife Service on advanced technology and studies to protect a variety of Avian species that extend beyond the mitigation measures required. They are one of the most knowledgeable experienced wind developers in California.

“Beyond their responsibilities as wind developers they are excellent corporate partners in the community. “



HUMBOLDT WIND PROJECT



Nathan Vajdos

Senior Director - Wind Development

nvajdos@terra-gen.com

210-831-5144



HUMBOLDT WIND PROJECT





**COMMUNITY ADVISORY COMMITTEE
SUBCOMMITTEE REPORT
Agenda Item # 5**

AGENDA DATE:	October 9, 2018
TO:	RCEA Community Advisory Committee
PREPARED BY:	Jerome Carman for CAC Subcommittee
SUBJECT:	Community Choice Energy-Funded Customer Programs Timelines and Selection

SUMMARY

During the Board's February 2018 meeting, staff were directed to develop and present a process for selecting new customer programs to be supported with Community Choice Energy (CCE) revenues. The Board's expressed intent was that the process includes public input while conforming to the CCE program's guidelines. Attachment 5.2 page 4 presents current program guidelines. Staff proposed a program identification and approval process to the Board. That process was adopted during the April 16, 2018 meeting. The staff report presenting the adopted process is attached to this report as 5.1.

In collaboration with the Community Advisory Committee (CAC), staff-initiated Phase 2 of the process outlined in 5.1. During the August 2018 special meeting, the CAC created a programs subcommittee tasked with coordinating with staff. The subcommittee met with staff to develop:

- A program identification and selection timeline and,
- A high-level process incorporating lessons from the staff driven phase 1 process.

Staff and CAC subcommittee members agreed that a full request for proposals with a selection process was not an appropriate next step. Aligned with the state's process for market driven energy efficiency solicitations, the subcommittee identified a two-step process for the public to submit project ideas. It is recommended that we pursue an initial request for abstract process. Abstracts should be 1 - 2 pages. Those abstracts that are not-filtered out will be reviewed and advanced. Those remaining will then be developed and made actionable through a secondary proposal process.

The proposed timeline is built around this two-step process. From the public's perspective, the proposed process consists of the following:

1. Abstract submission and review phase
 - a. Staff accepts and catalogs abstract submissions at any time throughout the year.
 - b. Staff integrates education on how to complete abstracts into outreach activities.
 - c. Abstracts submitted before a proposed deadline will be eligible for review for the funding cycle under consideration. Abstracts submitted after the proposed deadline will be considered for the following funding cycle.

- d. CAC subcommittee and staff select abstracts for consideration in step two.
2. Request for proposals phase
 - a. All who submitted abstracts will be notified of acceptance or decline.
 - b. Authors of abstracts selected in Step 1 will be invited to respond to an RFP if additional development is needed to make the idea actionable.
 - c. Staff will make final selection with recommendations from the CAC subcommittee if needed.

The subcommittee successfully identified an acceptable timeline for 2019 program identification and selection. The proposed 2019 timeline is compressed, and some steps limited in breadth, to meet time constraints and to facilitate a pilot implementation approach. Attachment 5.3 provides a task driven draft implementation timeline for the CAC's consideration. The following bulleted list provides a high-level overview of the recommended 2019 timeline:

- October 2018: CAC makes recommendation to Board to approve the Timeline and high-level process
- November 2018: Board puts timeline and high-level process to vote
- December 2018: Pending Board approval, the abstract process is finalized
 - Staff will consider what outreach efforts may be possible for educating a limited audience about the abstract process and first submission deadline
- January 2019: Program budget identified and abstract solicitation begins
 - Note that staff are recommending a limited audience for the initial abstract solicitation, followed by a scaled solicitation for 2020 programs
- February/March 2019: Abstract deadline for 2019 consideration. Any abstracts submitted after the finalized date will be taken into consideration for 2020 funding.
- March/April 2019: CAC and staff review, filter and recommend abstracts for consideration
- May 2019: Selected abstracts are expanded through a subsequent process which will also set initial budgets
- June 2019: Final budgets are proposed to the RCEA board

In addition, the subcommittee recommended that a timeline for 2020 programs be incorporated into the planning process. Staff agreed. A proposed full timeline (i.e. not compressed) that supports 2020 efforts is also shown in Attachment 5.3. The intent is to continue to develop and test the tools and processes necessary for successful solicitations before scaling in 2020.

The following details still need to be ironed out, much of which will happen during the 2019 rollout of this timeline:

- Define the target audience. Who is eligible to submit concepts?
- Design of the abstract
- Design of the RFP
- Staff and CAC subcommittee selection criteria / guidelines
- Define outreach and education campaign to ensure equitable access

The subcommittee recommends the following be kept in mind during the development and implementation of this process:

- Support a simplified solicitation that increases the likelihood that RCEA will receive a variety of market driven solutions
- Strive for equitable access to the abstract submission process
- Ensure review of submitted ideas is possible within a reasonable timeline
- Solutions should support and advance the 2030 CAPE vision statement
- Solutions should align with board approved program categories
- Solutions should be considered a public reinvestment
- Support program continuity when appropriate
- Reduce the likelihood that we will duplicate existing programs; leveraging and adding value is ideal

SUBCOMMITTEE RECOMMENDATION

The CAC should recommend the proposed timeline and high-level two (2) step solicitation process for Board approval.

ATTACHMENTS:

5.1: Staff Report CCE Customer Programs Approval Process

5.2: Community Energy Program Guidelines Update

5.3: FY 19-20, 20-21 Timeline

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STAFF REPORT
Agenda Item # 8.2

AGENDA DATE:	April 16, 2018
TO:	Board of Directors
PREPARED BY:	Lou Jacobson, Director of Demand-Side Management Richard Engel, Director of Power Resources Lori Biondini, Director of Business Development and Planning Dana Boudreau, Director of Operations Steve Edmiston, Director of Finance and Human Resources
SUBJECT:	Adoption of CCE Customer Programs Approval Process

SUMMARY

In the Board's February 2018 meeting the Board directed staff to develop and present a proposed process for selecting new customer programs to be supported with Community Choice Energy (CCE) revenues. The Board's expressed intent was that the process includes public input while conforming to the CCE program's launch period guidelines, adopted in September 2016.

After consideration of how best to efficiently identify and plan for new programs, staff recommends adopting multiple pathways for evaluating and approving new programs:

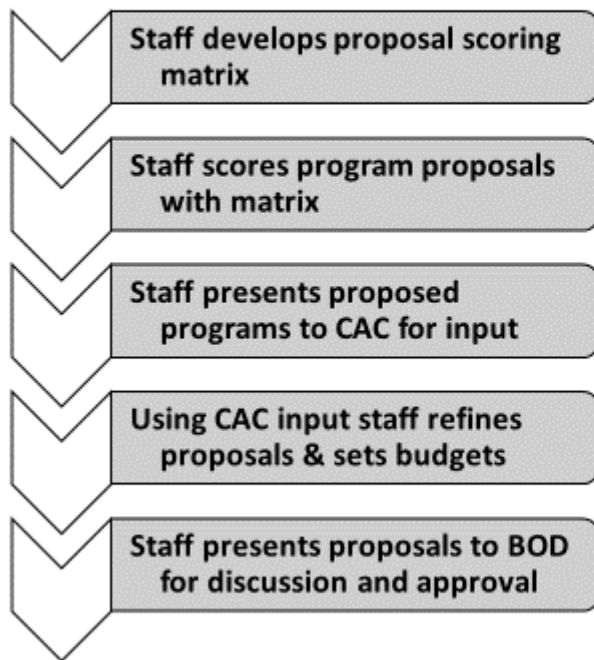
1. A competitive proposal and approval process, as outlined in the diagrams on the following page.
2. A non-competitive proposal and approval process for programs that are generally cost-neutral to RCEA. Examples could include a customer electricity-demand reduction incentive based on the associated wholesale power cost reductions, or a heat-pump water heater incentive based on the net-revenue increase from the associated additional electricity sales. Programs in this category would still be reviewed and discussed by the Community Advisory Committee (CAC) but would be exempt from competitive review alongside the non-cost-neutral proposals.

At the Board's discretion, program funding can be allocated outside of the above processes when there is a unique or urgent opportunity. This would include providing match funding for grant opportunities that bring additional resources into the community that would not otherwise be available.

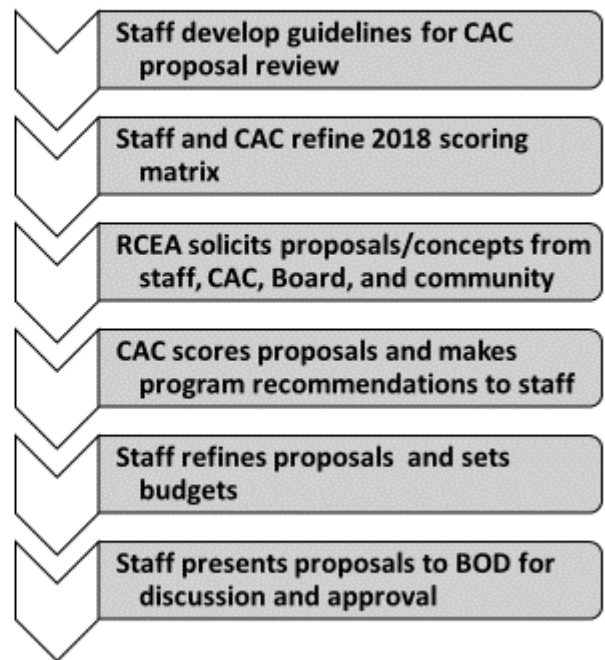
Staff have already begun to consider new program development options informed by the Board's guidelines adopted in 2016 and therefore recommends rolling out the proposed pathways in two phases. Phase 1 would remain mostly staff-driven and implemented right away; Phase 2 would begin in calendar year 2019 and would incorporate greater public participation and extensive involvement by the Community Advisory Committee.

Future processes in 2020 and beyond would be adapted to incorporate lessons learned in 2018 and in 2019.

Phase 1: Program Identification and Approval Process through 2018



Phase 2: Program Identification and Approval Process for 2019



FINANCIAL IMPACTS

As reported by staff in the Board's February 2018 meeting, estimated funds available for customer programs through the end of calendar year 2018 are \$400,000. Customer programs budget for future years is unknown and will depend on the CCE program's financial performance but is targeted to be larger than the current customer programs budget. Our current CCE program guidelines call for "up to \$1,000,0000 per year" for customer programs.

RECOMMENDED ACTION

Adopt the CCE-funded customer program evaluation and selection process for 2018 and 2019 as outlined in the staff report.

GUIDELINES FOR THE REDWOOD COAST ENERGY AUTHORITY COMMUNITY ENERGY PROGRAM LAUNCH-PERIOD STRATEGY AND TARGETS



Originally adopted September 19, 2016
Proposed May 21, 2018 Customer Programs Update

OVERVIEW & GOALS

The Redwood Coast Energy Authority (RCEA) is proceeding with the launch of a community choice energy program scheduled to commence service to customers in May of 2017. Based on the groundwork established by the RePower Humboldt strategic plan for developing local renewable energy, in June of 2015 the RCEA Board of Directors voted to proceed with developing a community choice energy program for Humboldt County with the following core goal:

Maximize the use of local renewable energy while providing competitive rates to customers.

In addition to this over-arching goal, the program will be designed to pursue the following aspirations and community benefits:

- Environmental Quality
- Local Control and the Ability to Pursue Local Priorities
- Economic Development
- Energy Independence
- Customer Rate-savings, Choice, and Community Programs

Implementing a community choice energy (CCE) program that furthers these goals will be an ongoing and evolving process. Outlined below are targets and objectives for the initial launch phase of the program during years 1-5 of operation. These targets and objectives will have to be adaptively managed based on market conditions and local considerations, but will be used as a guiding framework for the development of RCEA's CCE Program Implementation Plan, power procurement strategy, and the development of local generation projects and programs.

FINANCIAL TARGETS

- A target of approximately 5% of the available program annual budget will be allocated to customer rate savings (based on parity with PG&E generation rates and with PG&E PCIA fees factored in). This equates to a total customer rate savings that averages at least \$2 million per year over the first 5 years, for a targeted total cumulative customer rate savings of at least \$10 million over the first 5 years of operation.
- The program will target building a rate-stabilization/reserve/contingency fund of \$35 million by the end of year five under projected market conditions. The program will be designed to target a minimum reserve of at least \$10 million even under adverse market conditions.
- Over the first 5 years, the program will aim to retain and/or redirect \$100 million dollars or more of rate-payer dollars 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.

POWER OBJECTIVES

- At least 5% more renewable energy (as defined by state law) than PG&E's power mix.
- At least 5% lower greenhouse gas emission rate than PG&E mix.
- Maximize the use of local renewable energy to the extent technically and economically feasible and prudent.
- Strongly support energy efficiency and conservation as core strategies toward achieving the program's environmental, economic, and community goals.

GENERATION PORTFOLIO TARGETS

Existing Local Biomass

- Issue a Request for Offers targeting power purchase agreements with 1-2 existing facilities.
- Structure overall biomass procurement strategy around local waste-management and forest restoration priorities and needs.
- Include environmental, community, and economic considerations in selection process.
- Contingent on price and market conditions, contract for a target of around 20MW of local biomass energy (about 15% of the total RCEA power portfolio).

Existing Local Small Hydroelectric

- Pursue contracting with a target of 2MW of existing local small hydro.
- Ensure that any contracts are structured to support and prioritize the operators' water-management and environmental quality objectives.

New Local Solar Power

- ***Feed-in-tariff power procurement program for small generators***
 - <1MW small/medium renewable generators (solar and other technologies)
 - Eligible projects are designed primarily for wholesale power production (not focused on meeting on-site energy loads).
 - Standardized, upfront purchase price, projected to be in the range of \$80-100/MWh to facilitate project financing.
 - Standardized, upfront, and straightforward contract terms and duration to facilitate project financing.
 - Initial power portfolio allocation to the feed-in-tariff program will be targeted at 6MW.
- ***Utility-scale Solar***

In parallel to the feed-in-tariff program RCEA will pursue the development of additional wholesale-generation solar projects, which could be developed by RCEA and/or third parties in pursuit of overall power portfolio solar content targets:

 - Initial target of 5MW of new local wholesale solar online before the end of 2018.
 - Launch-phase target of 15MW of utility-scale/wholesale solar online by the end of year 5 of operations.
 - Focus project development on underutilized/idle public and industrial sites to limit impacts related to other beneficial uses such as agriculture, economic development, habitat, and open space.

Additional Power Resources

To meet and balance over-arching objectives for rates, renewable energy %, and greenhouse gas emissions as well as to match power generation availability to customer loads demands, the launch-period portfolio will incorporate the following additional power sources:

- Renewable generation projects--wind, solar, geothermal, etc--located outside the County.
- California and/or Pacific Northwest hydroelectric power (which is renewable and emissions-free, but cannot be counted toward CA state renewable portfolio standard requirements). This will not include any power from the Klamath River dams.
- Unspecified "system power" from the CAISO power market pool (while power from the pool is not traceable to any specific generator, in northern CA this power is predominantly generation from natural gas and large hydro power facilities).

Future/Long-term Generation

- ***New Local On-shore Wind Generation***
 - Assess the possibility for up to 50MW of local on-shore wind energy generation.
 - The most viable site for local on-shore wind is Bear River Ridge west of Rio Dell and South of Ferndale.
 - While there are other possible sites in the area, Bear River Ridge has the best wind resource in the County (it is one of the top wind resource areas in the state), Bear River Ridge property owners are willing and interested in developing a wind project, and there was considerable environmental and technical study and evaluation previously conducted which, if utilized, would reduce the development costs and timelines of a potential project.
- ***New Local Small-scale Hydroelectric***
 - Evaluate options for the development of new small-scale hydroelectric that would be compatible with environmental and cultural priorities.

- **Offshore Wind Energy**
 - While not yet deployed in California, offshore wind energy generation is an established technology. The wind resource off of the Samoa Peninsula coastline is one of the best in North America, and the on-shore infrastructure on the peninsula appears well-suited to accommodate offshore wind development.
 - During the initial 5-year launch-phase of Program, RCEA will allocate resources to moving forward with community and stakeholder engagement, site selection, environmental review, and project scoping.
- **Wave Energy**
 - Wave energy technology is in an early stage of development. During the program launch phase, RCEA will build on the previous WaveConnent and CalWave projects to explore and evaluate opportunities for local wave-energy research, development, and pilot-deployment.

PROGRAMS

Enhanced Solar Net-Energy-Metering (rate-based program)

- Self-generation power credited to customer's bill at retail rate plus \$0.01/kWh (+5-10% above base retail generation rate).
- Excess generation credits roll-over from year to year and never expire.
- Excess generation credits can be cashed-out for full retail value.

100% Renewable Energy Option (rate-based program)

- Voluntary opt-up option for premium price (based on actual cost of service).
- Large hydro and system power components of base RCEA power mix replaced with renewable energy (non-local solar, wind, geothermal, etc).
- Evaluate 100% solar and/or 100% local renewable options in the near-term (in or after 2018, after launch and ramp-up of operations).

Programs budget target of an initial allocation of up to \$1,000,000 per year for:

- **Solar and Energy-storage Technical Assistance**
Program emphasis will be on public-agency and community facilities, especially critical infrastructure such as water/wastewater treatment and emergency response.
- **Electric Vehicles and Charging Infrastructure**
Supporting the adoption of electric vehicles provides multiple benefits aligned with CCE Program goals: significant reductions in greenhouse gas emission compared to petroleum-powered vehicles; lower \$/mile fuel costs compared to petroleum vehicles, increasing CCE customer-load base, and providing a flexible electricity demand load that has the future potential to be managed to support the integration of renewable energy.
- **Energy Efficiency, Fuel Switching, and Conservation**
New programs that support and enhance the existing programs offered by RCEA, PG&E, the Redwood Community Action Agency, and others.
- **Match funding for State, Federal, and Foundation Energy Grants**
The majority of grant funding opportunities require some level of local match funding, so tagging/reserving a flexible component of the CCE program budget to be available as-needed for use as energy-related grant match funding will support bringing resources into Humboldt County to pursue our community energy goals.

Note Number	Notes
1	The program timeline is presented in two formats: (1) linear and (2) stacked.
2	CAC subcommittee members and staff agree the 2019-20 timeline is condensed.
3	CAC subcommittee recommended the development of an ongoing timeline in parallel with the 2019-2020 timeline. This should be captured.
4	The linear timeline presentation uses directional arrows to show how efforts span the fiscal year boundary.
5	Reach goal refers to the intention of completing the exercise early but acknowledging it may not happen.
6	2018-19 programs are shown to continue beyond 06/2019. This is for presentation only and continuity will be determined at the appropriate time.
7	2019-20 program launch/implementation is delayed to create some space for program development purposes. This will be variable and contingent on funding and program concepts selected.

Color Key
Implementation
In Process
Completed
Reach Goal

			Fiscal Year											
Fiscal Year Activities	Activity Group	Activity	July	August	September	October	November	December	January	February	March	April	May	June
2018-19	Implementation	Continue to implement and launch phase 1 2018-19 CCE programs												
	Process design and approval	CAC Approves Program Timeline and request for abstract process												
		Staff present updated timeline and process to the RCEA board												
		Define ongoing outreach process that is broadly accessible but appropriate												
		Finalize abstract process												
	Outreach	Launch reasonable outreach and education effort to limited audience												
	Program identification and selection	Evaluate existing programs and funding needs for service continuity												
		Launch ongoing abstract solicitation												
		2019 abstract deadline												
		Abstracts accepted on an on-going basis for future cycles												
		Calendar year rates program budgets set												
		CAC program subcommittee abstract review and filter												
		CAC subcommittee presents selected abstracts to CAC for approval												
		All respondents notified on status of abstracts												
		Selected abstracts fleshed out, expanded and made actionable by staff												
		Program Budgets finalized												
		Fiscal Year 2019-20 budget finalized and presented to the RCEA Board												
2019-20	Implementation	Continue to implement applicable 2018-19 programs												
		Begin program development/implementation of selected 2019-20 programs												
	Outreach	Launch outreach for 2020-21 programs												
	Program identification and selection	Abstracts accepted on an on-going basis for future cycles												
		2020 abstract deadline												
		Abstracts accepted on an on-going basis for future cycles												
		Evaluate existing programs and funding needs for service continuity												
		CAC program subcommittee abstract review and filter												
		CAC subcommittee presents selected abstracts to CAC for approval												
		All respondents notified on status of abstracts												
		Invitation for RFP made for selected abstracts												
		Selected abstracts fleshed out, expanded and made actionable by staff												
		Program Budgets finalized												
		Fiscal Year 2019-20 budget finalized and presented to the RCEA Board												

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
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
CAPE	RCEA Board-adopted Comprehensive Action Plan for Energy , supports achieving energy-related goals in Humboldt County
CARE	PG&E's California Alternate Rates for Energy program, provides gas and electricity discounts for income-qualified customers
CCA	Community Choice Aggregation
CCE	Community Choice Energy
CEC	California Energy Commission, the state's primary energy policy and planning agency
CPUC	California Public Utilities Commission
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

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&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
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

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