Redwood Coast Energy Authority
633 3rd Street, Eureka, CA 95501
Phone: (707) 269-1700 Toll-Free (800) 931-RCEA Fax: (707) 269-1777
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BOARD OF DIRECTORS MEETING AGENDA

Humboldt Bay Municipal Water District Office **April 25, 2019**
828 7th Street, Eureka, CA 95501 **Thursday, 3:30 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 72 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 Board of Directors, including those received less than 72 hours prior to the RCEA Board 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 Board at the meeting are asked to provide 12 copies to the Clerk of the Board.

OPEN SESSION Call to Order

1. REPORTS FROM MEMBER ENTITIES

2. ORAL COMMUNICATIONS

This time is provided for people to address the Board or submit written communications on matters not on the agenda. At the conclusion of all oral and written communications, the Board may respond to statements. Any request that requires Board action will be set by the Board for a future agenda or referred to staff.

3. CONSENT CALENDAR

All matters on the Consent Calendar are considered to be routine by the Board and are enacted on one motion. There is no separate discussion of any of these items. If discussion is required, that item is removed from the Consent Calendar and considered separately. At the end of the reading of the Consent Calendar, Board members or members of the public can request that an item be removed for separate discussion.

3.1 Approve Minutes of March 28, 2019, Board Meeting.
3.2 Approve Disbursements Report.
3.3 Accept Financial Reports.

4. REMOVED FROM CONSENT CALENDAR ITEMS

Items removed from the Consent Calendar will be heard under this section.

5. OLD BUSINESS

5.1 Offshore Wind Project Update (Information only)

Presentation by staff and Project Manager Tyler Studds of EDPR Offshore North America.

6. NEW BUSINESS

6.1 County Climate Action Plan Contract

Authorize the Executive Director to execute a contract with the County of Humboldt to provide Climate Action Planning support services after final review and approval of any revisions by RCEA General Counsel.

6.2 Energy Efficiency Program Administrator Status Election

Authorize staff to prepare an energy efficiency plan for Board approval that meets the requirements set forth in utility code section 381.1 (e)-(f) and furthered in CPUC decision 14-01-033.

COMMUNITY CHOICE ENERGY (CCE) BUSINESS (Confirm CCE Quorum)

Items under this section of the agenda relate to CCE-specific business matters that fall under RCEA's CCE voting provisions, with only CCE-participating jurisdictions voting on these matters with weighted voting as established in the RCEA joint powers agreement.

7. OLD CCE BUSINESS

7.1. Energy Risk Management Quarterly Report

Accept Energy Risk Management Quarterly Report.

8. NEW CCE BUSINESS

8.1 PG&E Time of Use Transition Team Presentation (Information only)

END OF COMMUNITY CHOICE ENERGY (CCE) BUSINESS

9. STAFF REPORTS - None

10. FUTURE AGENDA ITEMS

11. ADJOURNMENT

NEXT REGULAR MEETING
Thursday, May 23, 2019, 3:30 p.m.
Humboldt Bay Municipal Water District Office
828 7th Street, Eureka, CA 95501

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BOARD OF DIRECTORS DRAFT MEETING MINUTES

Humboldt Bay Municipal Water District Office **March 28, 2018**
828 7th Street, Eureka, CA 95501 **Thursday, 3:30 p.m.**

Chair Michael Winkler called a regular meeting of the Board of Directors of the Redwood Coast Energy Authority to order on the above date at 3:29 p.m. Notice of this meeting was posted on March 22, 2019. PRESENT: Vice Chair Austin Allison (left at 6:26 p.m.), Estelle Fennell (arrived 3:30 p.m.), Summer Daugherty, Dean Glaser, Dwight Miller, Robin Smith, Frank Wilson (arrived at 3:31 p.m.), Chair Michael Winkler, Sheri Woo. ABSENT: None. STAFF PRESENT: Business Planning and Finance Director Lori Biondini; Operations Director Dana Boudreau; Power Resources Director Richard Engel; Demand Side Management Director Lou Jacobson; Executive Director Matthew Marshall; Human Resources and Workforce Development Manager Patrick Owen; Account Services Manager Mahayla Slackerelli; Clerk of the Board Lori Taketa.

REPORTS FROM MEMBER ENTITIES

Director Miller reported that Trinidad has a new City Manager.

ORAL COMMUNICATIONS

Chair Winkler invited public comment.

Member of the public Walter Paniak requested quick links on RCEA's website, redwoodenergy.org, to https://www.energy.ca.gov/almanac/renewables_data/ and to https://www.eia.gov/electricity/data/eia923/, to give the public access to state and federal renewable energy, including local biomass plant, data.

Lost Coast Energy owner and Home Energy Rating System (HERS) rater Tyler Chapman stated that cities and the County should enforce a California Energy Commission mandate to prove residential and commercial HVAC state energy code compliance to improve health and address current problems.

Chair Winkler closed public comment and stated that he would like RCEA to help builders and building departments understand new code requirements and help them work together to ensure that new construction meets those requirements.

CONSENT CALENDAR

3.1 Approve Minutes of February 28, 2019, Board Meeting.
3.2 Approve Disbursements Report.
3.3 Accept Financial Reports.

3.4 Authorize the Executive Director to Execute an Amendment to the Power Purchase Agreement with DG Fairhaven Power, LLC Changing the Green Attribute Price Associated with Surplus Delivered Energy from $14.50 per Megawatt-hour to $17.00 per Megawatt-hour.

Director Allison requested agenda item 3.4 be removed for discussion.

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

M/S: Glaser, Allison: Approve Consent Calendar items 3.1, 3.2 and 3.3.

The motion passed on a unanimous voice vote. Ayes: Allison, Daugherty, Fennell, Glaser, Miller, Smith, Wilson, Winkler, Woo. Noes: None. Absent: None. Abstentions: None.

REMOVED FROM CONSENT CALENDAR ITEMS

In response to inquiry by Director Allison whether the proposed price change affects the cost of energy, Power Resources Director Engel responded that should the plant operate at full capacity and provide energy above the contracted amount, costs would increase by 4%. Director Engel stated that if the DG Fairhaven plant operates as it has during its first contracted year, there will be no financial impact.

Chair Winkler invited public comment.

Member of the public Wendy Ring stated that adding a price increase that is not likely to take effect into a contract does not make sense.

Chair Winkler closed public comment.

Staff stated that DG Fairhaven requested the price amendment late in negotiations and that after consultation with The Energy Authority, staff negotiated a reduced price of $17/MWh to accommodate market changes. Should the plant run at high capacity, the agency would likely resell the excess electricity and associated renewable energy certificates to neutralize cost impacts.

M/S: Glaser, Allison: Approve Consent Calendar item 3.4.

The motion passed on a unanimous voice vote. Ayes: Allison, Daugherty, Fennell, Glaser, Miller, Smith, Wilson, Winkler, Woo. Noes: None. Absent: None. Abstentions: None.

OLD BUSINESS - Offshore Wind Project Grid-Interconnection Study

Executive Director Marshall reported that phase one of the California Independent System Operator (CAISO) study to determine necessary upgrades for the project's grid connection is complete. The offshore wind project partners split the initial $400,000 study deposit four

ways. The partners found phase one study results favorable and are proceeding with phase two which requires a deposit for a portion of the project's required grid upgrades. Half of this deposit is reimbursable. Depending upon whether the project successfully completes the multi-year CAISO study process, and upon RCEA's relationship to the project company, RCEA may be reimbursed more or the cash amount will be converted into project equity.

Staff and the Directors discussed: existing grid infrastructure and capacity, CAISO's need for a safe and reliable electric grid that minimizes power provider generation curtailment, anticipated business growth due to energy, that RCEA will be reimbursed by the state for grid upgrades benefitting other projects, Humboldt County coast's superior offshore wind resource, and the risks and rewards of long-term offshore wind investment.

Chair Winkler invited public comment.

Member of the public John Schaefer stated that he was opposed to authorizing the CAISO financial security posting. Mr. Schaefer stated that RCEA's participation in floating offshore wind energy development was risky because the industry is in trial stages in Europe and local feasibility studies should be undertaken by large developers.

An RCEA Community Choice Energy customer stated that she supports the offshore wind project and inquired whether the industry has been successful on the East Coast.

Member of the public Wendy Ring stated that it seemed risky for RCEA to put funds that could be used toward other forms of more affordable, obtainable clean energy into developing offshore wind. Ms. Ring requested background information supporting the decision to pursue offshore wind development.

Chair Winkler closed public comment.

Executive Director Marshall described developments in the European and American East Coast offshore wind industry and in floating foundation technology. Mr. Marshall reviewed the RCEA offshore wind project history from its request for qualifications which drew responses from five international offshore wind development companies, to the selection of RCEA's project company partners Aker Solutions, Principle Power and EDP Renewables.

Staff and directors discussed: balancing new technology risks with agency objectives, the need to revisit anticipated project costs, the project team's experience and abilities, the bullish offshore wind energy market, the cost and safety advantages of in-harbor platform assembly and maintenance, the ability to discontinue project involvement in the future if needed, the need for continued public education about the reasons for project involvement, the Board Offshore Wind Subcommittee's role in determining risk exposure and how the agency can achieve returns, The Energy Authority's role in evaluating power output and electricity price, state support of offshore wind and its role in meeting California's 100 percent renewable energy goal given the lack of nighttime solar energy production, expected cost reductions over time, and the environmental and economic opportunities presented by offshore wind.

M/S: Allison, Woo: Approve expenditure of $273,500 toward the Redwood Coast Offshore Wind Project's CAISO interconnection process phase-2 financial security posting and authorize the Executive Director to execute any associated documents. The motion passed on a unanimous voice vote. Ayes: Allison, Daugherty, Fennell, Glaser, Miller, Smith, Wilson, Winkler, Woo. Noes: None. Absent: None. Abstentions: None.

NEW BUSINESS

6.1. FY 2018-2019 2nd Quarter Budget Summary

Director of Business Planning and Finance Lori Biondini reported that a legal services line item budget adjustment was necessary due to increased contract, regulatory and bankruptcy counsel work. Unexpended funds from the professional and program services spending category will cover the increase. Staff and the directors discussed: switching to seasonal cost matching to more closely match revenues with seasonal energy expenditures; the importance of legal counsel guidance while drafting offshore wind and airport microgrid project agreements and when engaging in Prop 39 work with educational institutions; and discussing month-to-month winter and summer rates during the budget process.

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

M/S: Miller, Glaser: Adopt proposed FY18-19 Budget Mid-Year Adjustment with revised FY18-19 Budget Totals.

The motion passed on a unanimous voice vote. Ayes: Allison, Daugherty, Fennell, Glaser, Miller, Smith, Wilson, Winkler, Woo. Noes: None. Absent: None. Abstentions: None.

6.2. Salary Survey Report (Information only, no action)

Human Resources and Workforce Development Manager Patrick Owen reported that Human Resources consultant Don Turko prepared a compensation policy that the Board passed in 2016 that required a salary survey be performed every two years. Staff Manager Owen presented an updated survey of similar jobs at comparable public agencies.

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

6.3. RCEA Energy Efficiency Programs Update (Information only, no action)

Demand Side Management Director Lou Jacobson reported that RCEA's Energy Watch program partnership with PG&E has provided core agency energy efficiency services to historically underserved Humboldt County since 2006. RCEA's historic partnership with PG&E will change in 2020.The California Public Utilities Commission directed all investor owned utilities to increase third-party designed and implemented programs. PG&E responded by releasing a request for abstracts in late 2018 to solicit energy efficiency program concepts for 2020 implementation. In response, RCEA staff submitted three abstracts for PG&E's

consideration. The same competitive process is expected to be required for local government partnerships. RCEA staff plan on submitting abstracts in response to PG&E's solicitations; are exploring the viability of administering state energy efficiency funds, an option now available by being a CCA; and are also exploring the formation of a Rural Regional Energy Network to access funding for local ratepayer efficiency services.

Staff is also working with the Community Advisory Committee on a program to implement community-submitted energy efficiency programs with CCE funds. Staff will provide a list of CAC programs subcommittee-recommended programs to the Board in May or June.

Staff and the directors discussed: how projected funding through the different paths compares with previous Energy Watch program funding; the different pathways' potential staffing impacts; that administrative costs for Rural Regional Energy Network management could be $1 million per year; the success of RENs in obtaining funding for other areas; and the difficulties in obtaining energy efficiency services through PG&E in rural areas.

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

6.4. Audit Services RFP

Director of Business Planning and Finance Biondini reported that, citing the additional workload and expertise required to audit the Community Choice Energy program, David L. Moonie and Co. has declined to continue performing RCEA's audits.

The directors and staff discussed the possibility of working with a local accounting firm to perform the audit and the specialized nature of auditing a local government agency that performs wholesale power management.

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

M/S: Fennell, Glaser: Authorize staff to issue a request for proposals for professional financial audit services and complete a review of submitted proposals and authorize the Executive Director to contract with the selected respondent and execute all associated documents following review and approval by the RCEA Board Finance Subcommittee and RCEA Legal Counsel.

The motion passed on a unanimous voice vote. Ayes: Allison, Daugherty, Fennell, Glaser, Miller, Smith, Wilson, Winkler, Woo. Noes: None. Absent: None. Abstentions: None.

COMMUNITY CHOICE ENERGY (CCE) BUSINESS

Chair Winkler determined a quorum was present to conduct CCE business.

OLD CCE BUSINESS

7.1. Feed-In Tariff

Account Services Manager Mahayla Slackerelli presented proposed Feed-in Tariff program materials in response to the Board's 2016 goal to initiate a feed-in tariff program and direction in November 2018 to prepare program materials. Ms. Slackerelli described the feed-in tariff program as a way for RCEA to set contract terms with renewable energy developers of up to 1 MW capacity to procure power. The program can accommodate up to 6 MW in contracts with a base price of $80/MWh and includes price adjusting mechanisms.

Staff and the directors discussed: project incentives for brownfield locations, previously developed sites, and local projects; how preference for local projects is allowable given the Board-approved strategic plan goal of local job creation; and how projects cannot be located on prime agricultural land or irrigated farmland. Most program participants are anticipated to be solar developers of projects larger than household size and it was pointed out that CCE program funds for subsidizing different programs are limited.

Chair Winkler invited public comment.

Member of the public Wendy Ring inquired whether battery storage can be incentivized, or time-of-use rates applied, through the feed-in tariff program, and how feed-in-tariff program prices compare to projected energy costs for the next 20 years.

Chair Winkler closed public comment.

Staff stated that the program could be designed to work with battery storage; that The Energy Authority can forecast energy prices for the next five years with confidence, but projections past that time are difficult to make; and that all power purchasers face risks with state-required long-term power purchasing agreements.

M/S: Miller, Glaser: Authorize staff to launch the RCEA Feed-in Tariff program effective April 1 and to investigate battery storage incentives for future incorporation into the Feed-in Tariff program.

The motion passed on a unanimous voice vote. Ayes: Allison, Daugherty, Fennell, Glaser, Miller, Smith, Wilson, Winkler. Noes: None. Absent: None. Abstentions: Woo (non-voting).

7.2. 100% Clean and Renewable Electricity by 2025 Goal

Executive Director Marshall presented a proposed resolution adopting the Community Advisory Committee's recommended 100 percent clean and renewable electricity by 2025 goal that does not interfere with existing Community Choice Energy (CCE) program goals and that incorporates community discussion on definitions of "clean" and "renewable" energy. The resolution accelerates RCEA's existing goal of achieving 100 percent renewable energy by 2030 outlined in the Board-adopted Comprehensive Action Plan for Energy (CAPE), the agency's strategic plan. Staff outlined the resolution's proposed action plan to revise CAPE goals in 2019, align those goals with the County's current multijurisdictional climate action plan (CAP), examine cost impacts of different scenarios, and incorporate the resulting long-

term strategy into an updated integrated resource plan that will be submitted to the California Public Utilities Commission in spring 2020.

The directors and staff discussed: adherence to the CCE program's first five year resource goals; how local biomass will be burned here or elsewhere; the value of locally-produced energy; how staff will encourage a land management, fire safety, carbon sequestration and biomass discussion at the County's CAP public meetings; how the clean and renewable energy discussion must encompass more than electricity production; how all energy sources have negative impacts; and how accelerating the agency's adoption of 100 percent renewable electricity may limit local energy source options given the state's requirement for long-term procurement contracts.

Chair Winkler invited public comment.

Arcata resident and 350 Humboldt member Pat Carr expressed support for the resolution, locally-produced energy and decentralized energy. Ms. Carr stated support for community involvement in clean energy discussions.

Eureka resident, 350 Humboldt Steering Committee member, and Eureka Energy Committee member Debra Dukes read a letter from Gale Coonan supporting the resolution for setting an example for other communities. Ms. Dukes also expressed support for the resolution stating that it may be a small act in the global context, but it makes a big difference for this community.

Member of the public Wendy Ring stated her support for the resolution, describing it as a signal to power providers of the kind of energy people want. Ms. Ring also supported RCEA's coordination with the regional climate action plan and integrated resource plan, the agency's community responsiveness and incorporation of further avenues for community dialog.

Member of the public Ellen Golla expressed support of the resolution with reservations and stated that she hoped it would not be used to greenwash biomass electricity, which she states is not clean. Ms. Golla cited a recent American Public Health Association report stating that combustion-related air pollution negatively affects children's neurodevelopment.

DG Fairhaven General Manager Bob Marino expressed support for the resolution and shared a report on biomass by the California Air Pollution Control Officers Association.

Humboldt Redwood Company (HRC) Scotia Director of Operations Michael Richardson read HRC Forest Policy Director John Andersen's letter urging the Directors to continue to include biomass facilities as a clean and renewable source of energy and stating that the Scotia plant burns waste from trees harvested following stringent forest practice rules. Mr. Andersen added that HRC provides well-paying jobs to 300 employees who support the local economy.

Tyler Chapman of Lost Coast Energy stated that he supports the resolution and that by enforcing the state's energy code, the community can immediately take steps toward achieving emissions reduction goals.

Chair Winkler closed public comment.

M/S: Allison, Daugherty: Adopt Resolution 2019-1 of the Board of Directors of the Redwood Coast Energy Authority Adopting the Target of a 100% Clean and Renewable Electricity Mix by 2025.

The motion passed on a unanimous voice vote. Ayes: Allison, Daugherty, Fennell, Glaser, Miller, Smith, Wilson, Winkler. Noes: None. Absent: None. Abstentions: Woo (non-voting).

END OF COMMUNITY CHOICE ENERGY (CCE) BUSINESS

STAFF REPORTS

Director Allison leaves at 6:26 p.m.

9.1. Community Choice Energy Program Update by Power Resources Director Richard Engel.

Power Resources Director Richard Engel reported that a diverse group of renewable power producers responded to February's request for proposals. Most were solar developers, some were hydropower and wind power producers, and most were from outside Humboldt County. The review team is assessing the proposals and staff's goal is to present negotiated power purchase agreements for Board approval in July.

The CCE program's electricity rate changes continue to be delayed by PG&E's delayed rate setting. Staff anticipates a decrease in PG&E generation rates in May at the earliest and is delaying implementation of the Board-approved one percent rate discount below PG&E's rates. RCEA's required rate comparison mailing is due this summer and may not reflect changes in PG&E's and RCEA's rates due to the delays.

Upon inquiry by Director Miller, staff confirmed that it may be possible to increase the rate discount to more than one percent below PG&E's generation rates, once the changes to PG&E generation rates and the Power Charge Indifference Adjustment are known.

9.2. Building Lease Renewal Report by Operations Director Dana Boudreau.

Operations Director Dana Boudreau reported that RCEA's building lease expires at the end of March and that staff and the building owner agreed to a month-to-month lease. Building improvements for comfort and efficiency are being discussed and staff favors remaining at the current location to keep expenses down. One-year lease negotiations will begin in June.

To Director Glaser's inquiry whether staff is looking for another location to accommodate increased staff for proposed projects, staff Director Boudreau responded that staff continues to consider other locations and building sharing with other agencies as longer-term solutions.

Chair Winkler adjourned the meeting at 6:35 p.m.

Respectfully Submitted,
Lori Taketa
Clerk of the Board

Redwood Coast Energy Authority
Disbursements Report
As of February 28, 2019

Type	Date	Num	Name	Memo	Amount
Check	02/01/2019	9221	CoPower	Premium	-323.90
Bill Pmt -Check	02/04/2019	ACH	The Energy Authority	CAISO Invoice #20190131	-18,271.16
Bill Pmt -Check	02/04/2019	ACH	The Energy Authority	CAISO Invoice #20190131	-129,000.98
Liability Check	02/07/2019	9222	Umpqua Bank	74-3104616 - HSA	-558.36
Liability Check	02/07/2019	9223	Calvert	74-3104616 - SimpleIRA	-11,335.90
Paycheck	02/08/2019	9224	Payroll	Payroll	-2,416.39
Bill Pmt -Check	02/08/2019	9225	Advanced Security	Security monitoring for Feb-Apr.	-118.50
Bill Pmt -Check	02/08/2019	9226	Biondini, L.	Purchase reimbursement	-51.73
Bill Pmt -Check	02/08/2019	9227	Burks, K.	January mileage reimbursement	-168.20
Bill Pmt -Check	02/08/2019	9228	City of Arcata	January Utility User Tax	-8,143.96
Bill Pmt -Check	02/08/2019	9229	City of Blue Lake	January Utility User Tax	-802.32
Bill Pmt -Check	02/08/2019	9230	Cyndy Day-Wilson, Esq.	Legal services	-10,906.27
Bill Pmt -Check	02/08/2019	9231	Developed Employment Services, LLC.	Facilities maintenance work	-51.98
Bill Pmt -Check	02/08/2019	9232	Diamond, Nancy	Legal services	-16,993.00
Bill Pmt -Check	02/08/2019	9233	Donald Dame	VOID: Professional Services	0.00
Bill Pmt -Check	02/08/2019	9234	FedEx	Residential box mailing	-19.82
Bill Pmt -Check	02/08/2019	9235	Greenlots	(19) SKY 1 year per port	-5,700.00
Bill Pmt -Check	02/08/2019	9236	Harris Plaza Property	Harris Plaza Property self-install rebate/Audit 5200.	-6,967.79
Bill Pmt -Check	02/08/2019	9237	Headwaters Fund - Interest	RCEA loan January 2019	-50,000.00
Bill Pmt -Check	02/08/2019	9238	Hilson, D.	January mileage reimbursement	-81.37
Bill Pmt -Check	02/08/2019	9239	HSU Fdn FCEV ARV-14-055	Aug-Sept contract services 000163/SP33316	-1,197.23
Bill Pmt -Check	02/08/2019	9240	Humboldt Builders' Exchange	Specialty Listing - Energy Consultants	-10.00
Bill Pmt -Check	02/08/2019	9241	Local Government Commission	December 2018 CivicSpark Services	-2,318.18
Bill Pmt -Check	02/08/2019	9242	McMahon, J.	Mileage reimbursements	-134.39
Bill Pmt -Check	02/08/2019	9243	Means, M.	January mileage	-14.38
Bill Pmt -Check	02/08/2019	9244	Mission Uniform & Linen	Feb mat service, janitorial supplies	-60.14
Bill Pmt -Check	02/08/2019	9245	North Coast Cleaning	January Cleaning Service	-402.00
Bill Pmt -Check	02/08/2019	9246	NYLEX.net, Inc.	Vulnerability audit	-4,500.00
Bill Pmt -Check	02/08/2019	9247	PG&E CCA	December CCE Charges	-21,777.14
Bill Pmt -Check	02/08/2019	9248	PG&E EV Account	EV stations December	-362.50
Bill Pmt -Check	02/08/2019	9249	PG&E Utility Account	December utilities/lighting upgrade financing	-1,244.59
Bill Pmt -Check	02/08/2019	9250	Platt/Rexel	G&A Facility	-51.88
Bill Pmt -Check	02/08/2019	9251	Ponting, W.	Mileage reimbursements	-159.16
Bill Pmt -Check	02/08/2019	9252	Scrapper's Edge	VOID: Notary service	0.00
Bill Pmt -Check	02/08/2019	9253	SDRMA Medical	March Premium	-20,049.12
Bill Pmt -Check	02/08/2019	9254	SDRMA P&L	Added commercial cyber policy	-3,887.40
Bill Pmt -Check	02/08/2019	9255	Shred Aware	Shredding services	-65.00
Bill Pmt -Check	02/08/2019	9256	Sonoma County Office of Education	November 2018 Professional Services.	-78.00
Bill Pmt -Check	02/08/2019	9257	SouthWestSolutions	Particle Board Shelves	-205.98
Bill Pmt -Check	02/08/2019	9258	Suddenlink Communications	Internet access	-1,106.30
Bill Pmt -Check	02/08/2019	9259	Taketa, L.	Purchase reimbursement: wall calendars, refreshme	-60.07
Bill Pmt -Check	02/08/2019	9260	Times Printing Company	VOID:	0.00
Bill Pmt -Check	02/08/2019	9261	City of Arcata	January High Energy Use Tax	-1,586.86
Paycheck	02/08/2019	2081901	Payroll	Payroll	-46,585.60
Bill Pmt -Check	02/11/2019	ACH	The Energy Authority	CAISO Invoice #20190207-Jan	-132,869.52
Bill Pmt -Check	02/11/2019	ACH	The Energy Authority	CAISO Invoice #20190207-Apr18	-1,922.38
Liability Check	02/11/2019	E-pay	Internal Revenue Service	74-3104616 QB Tracking # 180652326	-1.82
Liability Check	02/11/2019	E-pay	Internal Revenue Service	74-3104616 QB Tracking # 180694326	-19,145.88
Liability Check	02/11/2019	E-pay	EDD	499-0864-3 QB Tracking # 180718326	-3,854.28
Liability Check	02/11/2019	E-pay	EDD	499-0864-3 QB Tracking # 180741326	-1,290.98
Bill Pmt -Check	02/15/2019	ACH	The Energy Authority	TEA Invoice #20190215	-2,293,388.35
Bill Pmt -Check	02/19/2019	ACH	VISA	January Statement 12/20/18-01/18/19	-8,596.04
Paycheck	02/22/2019	9262	Payroll	Final paycheck	-439.02
Paycheck	02/22/2019	9263	Payroll	Final paycheck	-429.62
Bill Pmt -Check	02/22/2019	9264	Solomon, J.	Jan & Feb travel reimbursement	-68.79
Bill Pmt -Check	02/25/2019	ACH	CalPine Corporation	Calpine January 2019 Costs	-73,288.35
Bill Pmt -Check	02/25/2019	ACH	DG Fairhaven	DG Fairhaven January 2019	-299,001.46
Bill Pmt -Check	02/25/2019	ACH	Humboldt Redwood Company	Humboldt Redwood CO. January 2019	-780,027.73

Type	Date	Num	Name	Memo	Amount
Liability Check	02/25/2019	E-pay	EDD	499-0864-3 QB Tracking # 742418326	-9.86
Liability Check	02/25/2019	E-pay	Internal Revenue Service	74-3104616 QB Tracking # 742443326	-182.86
Liability Check	02/25/2019	E-pay	EDD	499-0864-3 QB Tracking # 742468326	-33.51
Liability Check	02/25/2019	E-pay	EDD	499-0864-3 QB Tracking # 742484326	-3,800.66
Liability Check	02/25/2019	E-pay	Internal Revenue Service	74-3104616 QB Tracking # 742495326	-19,003.64
Liability Check	02/25/2019	E-pay	EDD	499-0864-3 QB Tracking # 742528326	-449.12
Paycheck	02/25/2019	9265	Payroll	Payroll	-2,479.38
Liability Check	02/25/2019	9266	Umpqua Bank	74-3104616 - HSA	-698.72
Liability Check	02/25/2019	9267	Calvert	74-3104616 - SimpleIRA	-11,632.91
Bill Pmt -Check	02/25/2019	9268	ABC Office Equipment	January print charges/service contract.	-375.40
Bill Pmt -Check	02/25/2019	9269	Best Cleaners	Coverall & linens laundering	-8.50
Bill Pmt -Check	02/25/2019	9270	Bishop, M.	January mileage reimbursement	-37.93
Bill Pmt -Check	02/25/2019	9271	Central Office	Copying - NEM bills & envelopes	-113.13
Bill Pmt -Check	02/25/2019	9272	City of Eureka-Water	Water service, 12/26-1/25/19	-146.84
Bill Pmt -Check	02/25/2019	9273	Developed Employment Services, LLC.	Facilities maintenance work	-16.17
Bill Pmt -Check	02/25/2019	9274	Donald Dame	Professional Services	-437.50
Bill Pmt -Check	02/25/2019	9275	Enterprise	Car rental	-274.09
Bill Pmt -Check	02/25/2019	9276	Eureka City Schools	Eureka High School self-install rebate/Audit 5579.	-1,911.07
Bill Pmt -Check	02/25/2019	9277	Eureka Rubber Stamp	Boad meeting nameplates.	-40.69
Bill Pmt -Check	02/25/2019	9278	FedEx	Residential box mailing	-23.38
Bill Pmt -Check	02/25/2019	9279	Fischer, A.	L. Fischer: Travel reimbursement CivicSpark MYG 2	-213.61
Bill Pmt -Check	02/25/2019	9280	HSU Fdn FCEV ARV-14-055	December contract services 000163/SP33674	-223.91
Bill Pmt -Check	02/25/2019	9281	Humboldt Builders' Exchange	PlanScan - scan plans to .pdf	-27.50
Bill Pmt -Check	02/25/2019	9282	Humboldt Lighting, LLC.	Sylvania 10w 4' T8	-3,401.48
Bill Pmt -Check	02/25/2019	9283	Local Government Commission	January 2019 CivicSpark Services	-2,318.18
Bill Pmt -Check	02/25/2019	9284	Mattole Unified School District	Mattole Elementary self-install rebate/Audit 5575 LE	-232.00
Bill Pmt -Check	02/25/2019	9285	Mission Uniform & Linen	Janitorial services	-279.13
Bill Pmt -Check	02/25/2019	9286	NYLEX.net, Inc.	Onsite network support services - March	-3,200.00
Bill Pmt -Check	02/25/2019	9287	Pacific Paper Company	Wall calendars	-80.88
Bill Pmt -Check	02/25/2019	9288	PG&E CCA	January CCE Charges	-21,830.55
Bill Pmt -Check	02/25/2019	9289	Pierson's Home Ctr	Facilities repairs	-39.38
Bill Pmt -Check	02/25/2019	9290	Platt/Rexel	PO #1265 Bulbs	-21,545.39
Bill Pmt -Check	02/25/2019	9291	Recology	January garbage service	-90.72
Bill Pmt -Check	02/25/2019	9292	Scrapper's Edge	Notary service	-15.00
Bill Pmt -Check	02/25/2019	9293	SDRMA Dental	February Premium	-1,246.73
Bill Pmt -Check	02/25/2019	9294	Times Printing Company	Miscellaneous printing and mailings	-5,020.00
Bill Pmt -Check	02/25/2019	9295	Verizon Wireless	January tablet/cell service for field staff/mobile broa	-229.68
Bill Pmt -Check	02/25/2019	9296	Winzler, John	Office Lease - March	-4,350.00
Paycheck	02/25/2019	2211901	Payroll	Payroll	-46,787.90
TOTAL					**-4,134,899.17**

Redwood Coast Energy Authority
Visa
As of February 28, 2019

	Type	Date	Num	Name	Memo	Amount	Balance
2006 · VISA-3748							**1,313.51**
	Charge	02/01/2019	February	Square	Card Reader Fee	50.00	1,363.51
	Charge	02/16/2019		U-Verse	December DSL 11/9 - 12/8/16	95.89	1,459.40
	Charge	02/22/2019	VIM22727594	Vimeo	Vimeo subscription	84.00	1,543.40
	Charge	02/25/2019	February	Uberconference	Conference call subscription	10.00	1,553.40
	Charge	02/25/2019		Uberconference	Conference call subscription	11.06	1,564.46
	Charge	02/25/2019	4280	Amazon.com	Miscellaneous office supplies	299.59	1,864.05
	Charge	02/26/2019	E050066LDT	Microsoft	Online Services	375.00	2,239.05
	Charge	02/26/2019	1502	United Airlines	Travel: Nancy Diamond Eureka to SFO anc	526.20	2,765.25
Total 2006 · VISA-3748						1,451.74	2,765.25
TOTAL						**1,451.74**	**2,765.25**

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Redwood Coast Energy Authority
Balance Sheet
As of February 28, 2019

	Feb 28, 19
ASSETS	
Current Assets	
Checking/Savings	
1010 · Petty Cash	414.35
1050 · GRANTS & DONATIONS 3840	15,204.58
1060 · Umpqua Checking-9271	1,126,225.55
1071 · Umpqua Deposit Cntrol Acct 8215	1,676,521.54
1075 · Umpqua Reserve Account 2300	4,750,000.00
8413 · COUNTY TREASURY 3839	5,065.52
Total Checking/Savings	7,573,431.54
Accounts Receivable	
1100 · Accounts Receivable	404,502.07
Total Accounts Receivable	404,502.07
Other Current Assets	
1101 · Allowance for Doubtful Accounts	-250,850.54
1103 · Accounts Receivable-Other	3,915,358.50
1120 · Inventory Asset	21,715.00
1202 · Prepaid Expenses	-25,157.20
Total 1210 · Retentions Receivable	51,636.44
1499 · Undeposited Funds	19,454.28
Total Other Current Assets	3,732,156.48
Total Current Assets	11,710,090.09
Fixed Assets	
Total Fixed Assets	151,725.39
Other Assets	
Total Other Assets	4,100.00
TOTAL ASSETS	**11,865,915.48**
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Total Accounts Payable	2,958,518.62
Total Credit Cards	-6.94
Other Current Liabilities	
Total 2100 · Payroll Liabilities	121,938.65
Total 2210 · Retentions Payable	4,499.69
Total Other Current Liabilities	126,438.34
Total Current Liabilities	3,084,950.02
Long Term Liabilities	
2700 · Long-Term Debt	
2701 · Lighting Upgrade	1,431.43
2702 · Headwaters Credit Line	25,304.18
Total 2700 · Long-Term Debt	26,735.61
2703 · TEA Phase I & II	109,494.56
Total Long Term Liabilities	136,230.17
Total Liabilities	3,221,180.19
Equity	
2320 · Investment in Capital Assets	150,293.95
3200 · LTD - Headwaters Loan	-25,304.18
3203 · LTD - TEA Phase I & II	-109,494.56
3900 · Fund Balance	8,531,470.74
Net Income	102,340.09
Total Equity	8,649,306.04
TOTAL LIABILITIES & EQUITY	**11,870,486.23**

Redwood Coast Energy Authority
Profit & Loss Budget vs. Actual
July 2018 through February 2019

	Jul '18 - Feb 19	Budget	% of Budget
Ordinary Income/Expense			
Income			
5 REVENUE EARNED			
Total 5000 · Revenue - government agencies	96,734.25	111,600.00	86.68%
Total 5100 · Revenue - program related sales	9,355.65	18,000.00	51.98%
Total 5400 · Revenue-nongovernment agencies	842,569.77	1,210,000.00	69.63%
5500 · Revenue - Electricity Sales			
Total 5510 · Electricity Sales	30,739,099.38	51,940,000.00	59.18%
5580 · Uncollectable Accounts	-92,243.00	-160,000.00	57.65%
Total 5500 · Revenue - Electricity Sales	30,646,856.38	51,780,000.00	59.19%
5 REVENUE EARNED - Other	5,000.00		
Total 5 REVENUE EARNED	31,600,516.05	53,119,600.00	59.49%
Total Income	31,600,516.05	53,119,600.00	59.49%
Expense			
Total 6 WHOLESALE POWER SUPPLY	26,826,019.64	39,880,000.00	67.27%
Total 7 PERSONNEL EXPENSES	1,494,452.33	2,253,700.00	66.31%
Total 8.1 FACILITIES AND OPERATIONS	185,466.99	211,400.00	87.73%
Total 8.2 COMMUNICATIONS AND OUTREACH	67,428.70	108,200.00	62.32%
Total 8.3 TRAVEL AND MEETINGS	30,031.70	48,000.00	62.57%
8.4 PROFESSIONAL & PROGRAM SRVS			
8400 · Regulatory	33,585.00	94,600.00	35.5%
8410 · Contracts - Program Related Ser	77,667.20	427,200.00	18.18%
8420 · Accounting	18,804.00	55,000.00	34.19%
8430 · Legal	139,123.56	85,000.00	163.68%
8450 · Wholesale Services - TEA	387,963.92	585,000.00	66.32%
8460 · Procurement Credit - TEA	485,137.68	800,000.00	60.64%
8470 · Data Management - Calpine	655,426.40	1,100,000.00	59.58%
Total 8.4 PROFESSIONAL & PROGRAM SRVS	1,797,707.76	3,146,800.00	57.13%
Total 8.5 PROGRAM EXPENSES	383,017.95	1,268,000.00	30.21%
Total 8.6 INCENTIVES & REBATES	309,377.18	460,000.00	67.26%
Total 9 NON OPERATING COSTS	404,673.71	565,800.00	71.52%
Total Expense	31,498,175.96	47,941,900.00	65.7%
Net Ordinary Income	102,340.09	5,177,700.00	1.98%
Reserve Contributions	2,250,000.00	3,000,000.00	75.0%
Net Income	**-2,147,659.91**	**2,177,700.00**	**-98.62%**

REDWOOD COAST EnergyAuthority

STAFF REPORT

Agenda Item # 5.1

AGENDA DATE:	April 25, 2019
TO:	Board of Directors
PREPARED BY:	Matthew Marshall, Executive Director
SUBJECT:	Offshore Wind Project Update

BACKGROUND

In 2012, RCEA adopted the Humboldt County Comprehensive Action Plan for Energy (CAPE), RCEA's primary guiding document, which established specific strategic action items relevant to the development of the region's offshore wind energy resources. Action items included:

- Working with utilities and private companies to develop off-shore wind energy demonstration projects;
- Supporting emerging energy technology development from local and non-local sources;
- Collaborating with local economic development entities to attract technology developers, manufacturers and energy service providers to the County;
- Collaborating with local jurisdictions to identify and pre-assess locations and facilities that could appropriately support energy generation projects and/or other energy-related business ventures; and
- Working 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.

RCEA also initiated RePower Humboldt, a community-wide visioning effort to define a strategic plan for achieving energy independence and security in Humboldt County. Finalized in 2014 with the support of HSU's Schatz Energy Research Center, the California Energy Commission, PG&E and many community stakeholders, the RePower Humboldt Strategic Plan identifies "pursuing opportunities for off-shore wind energy research, development and demonstration" as an important objective. Community stakeholders further prioritized "local acceptance, participation, and control" as a key criterion for future renewable energy resource development projects.

Between 2015-2017 RCEA's local government members approved RCEA's establishment as the County's community choice aggregator charged with providing electricity generation service to Humboldt County ratepayers in tandem with PG&E and providing local control over electricity supply. The Board adopted Guidelines for the CCA Program's Launch Period Strategy and Targets in 2016 after a series of community input gathering workshops. The resulting guidelines lay out power portfolio goals for near- and long-term local renewable energy generation, including pursuing the development of offshore wind energy.

In 2018, RCEA issued a request for qualifications to seek project partners to provide the needed technical and financial resources to develop the local offshore wind resource while maintaining a local stake in planning and potential development off the Humboldt County coastline. In April 2018, the

Board approved joint development of a public-private partnership agreement between RCEA, Principle Power, Inc., Aker Solutions, Inc., and EDPR Offshore North America, LLC.

Project activities to date include a Bureau of Ocean Energy Management outer continental shelf renewable energy commercial unsolicited lease request, California Independent System Operator grid interconnection study initiation, and beginning work with the Humboldt Bay Harbor District to address the offshore wind project's harbor infrastructure needs.

SUMMARY

Staff and Redwood Coast Offshore Wind Project Manager Tyler Studds of EDPR Offshore North America will present an update on the Offshore Wind Project at this meeting.

RECOMMENDED ACTION

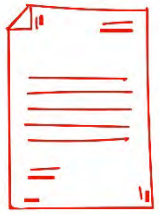
N/A - information only.

ATTACHMENTS

None.

Materials submitted
at April 25, 2019, Board meeting

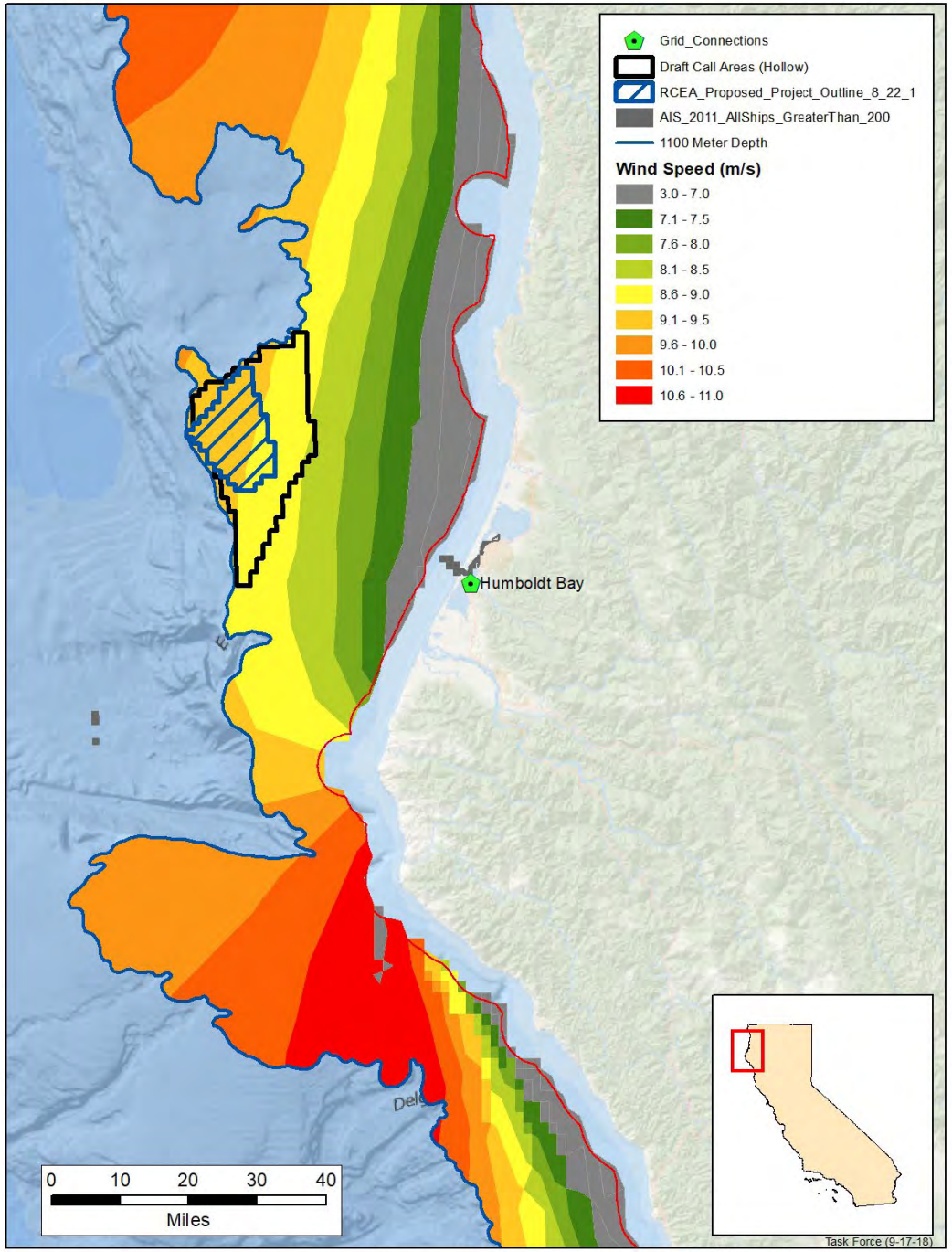
AGENDA:



1. Project Overview
2. About EDP Renewables
3. Timeline and Key Dates
4. Key Objectives

Redwood Coast Offshore Wind Project

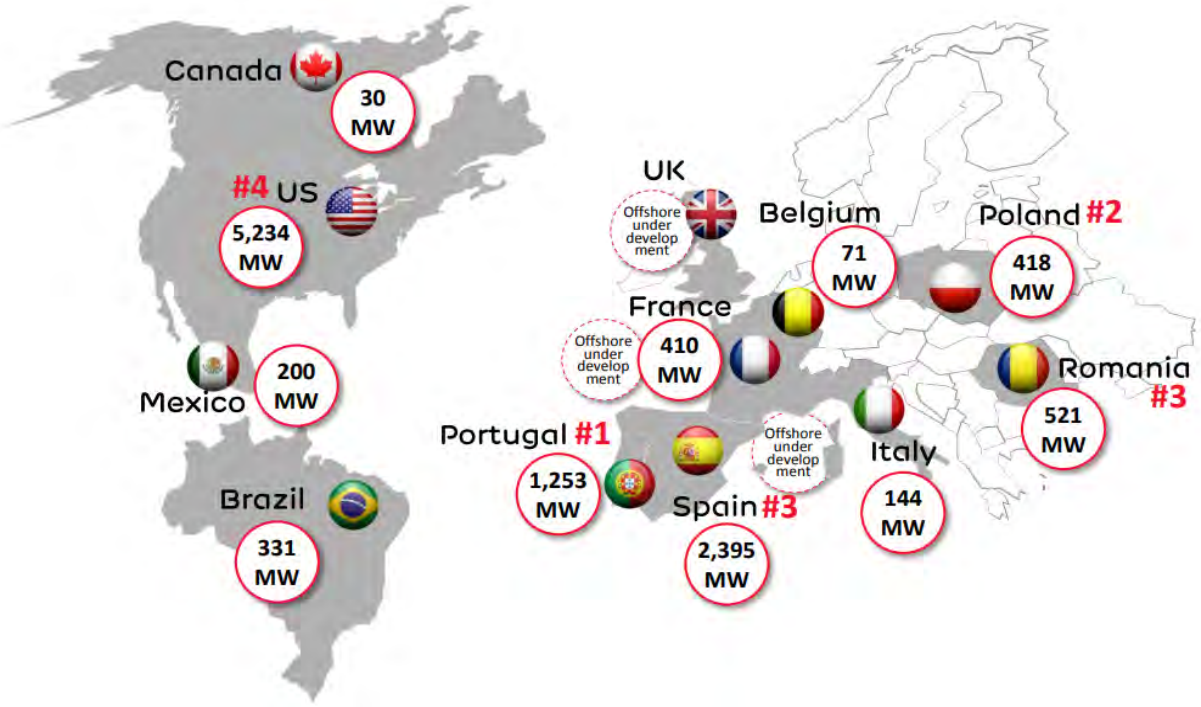
- **Partnership:** Consortium between Redwood Coast Energy EDPR, Aker Solutions, Principle Power
- **Location:** Area approx. 25 miles from Eureka, 600 – 1000m
- **Capacity:** 100 - 150 MW
- **Progress:**
  - Consortium selected by RCEA's RFQ in March 2018
  - Interconnection Request submitted April 2018
  - Lease application submitted to BOEM in Sept 2018
- **Local Partnership**
  - Developing local renewable resources
  - Supporting energy-related local economic development
  - Strong local community involvement and support
  - Potential to drive investment, create jobs, and revitalize Port of Humboldt Bay
- **Project Footprint**
  - Unsolicited lease: 47,930 acres
  - Call Area: 132,369 acres



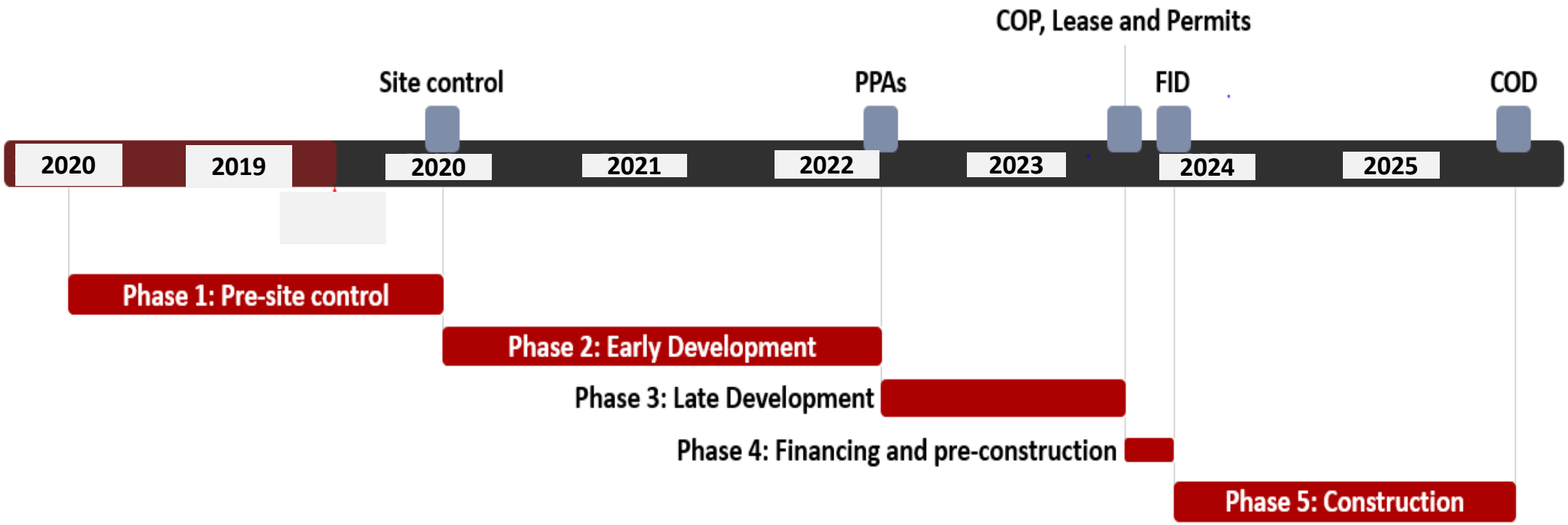
Introduction to EDP Renewables

A global leader in the renewable energy sector

- World's fourth-largest wind energy producer
- 11GW of installed capacity
- Presence in 13 markets
- 1300 employees
- Increasing capacity in solar and energy storage
- Featured on the Dow Jones Sustainability Index for ten consecutive years
- Energias de Portugal, S.A. (EDP), the principal shareholder of EDPR, is a global energy company and innovation, sustainability leader
- Involved in the offshore wind sector since 2008
- 4GW OSW pipeline in UK, US, France, Poland



Estimated High Level Schedule



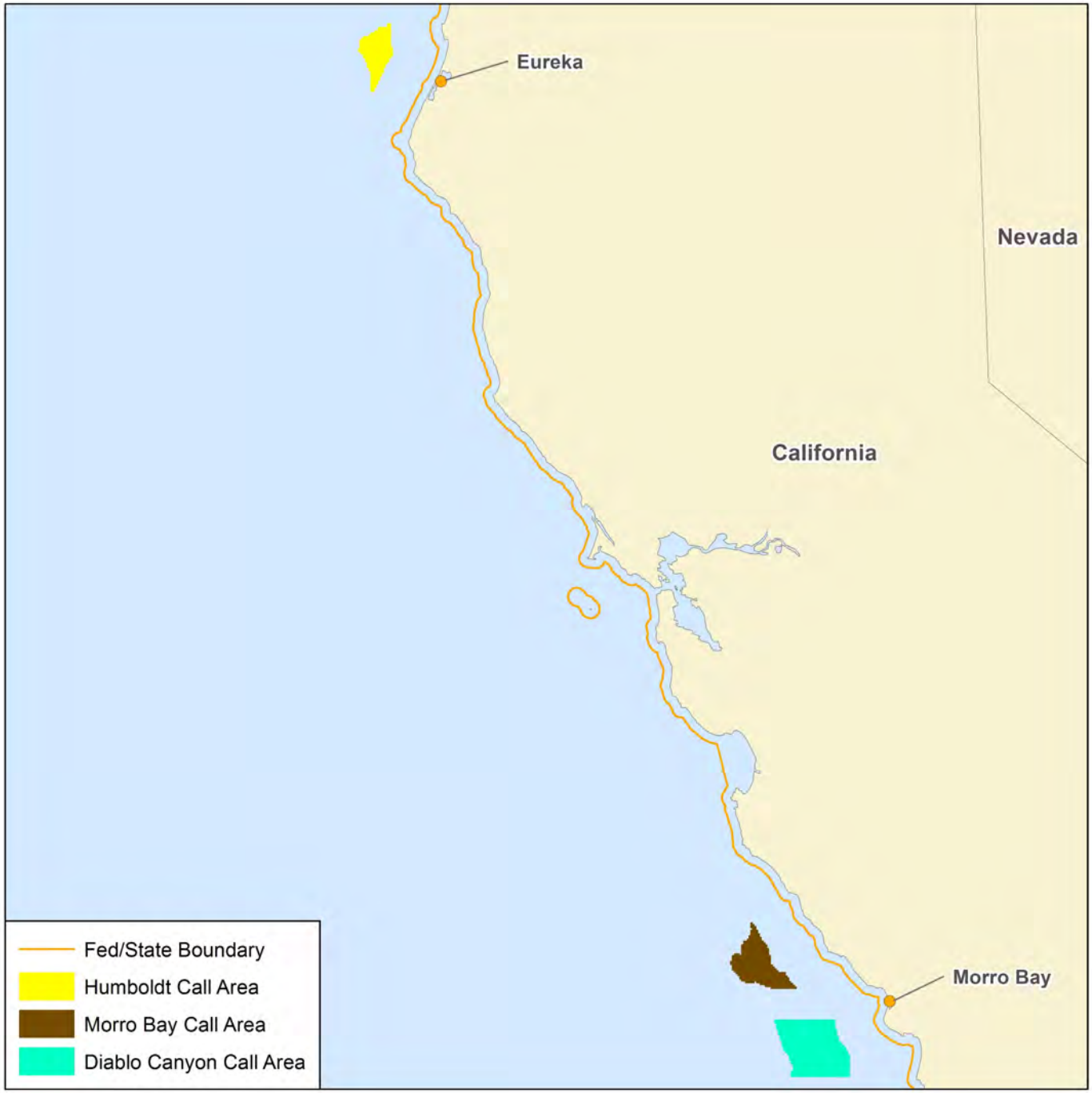
Key Milestones

- Acquire lease
- Secure grid connection
- Secure PPAs
- Upgrade local port facility
- Work w/ key stakeholders
  - Labor
  - Environmental
  - Fisheries

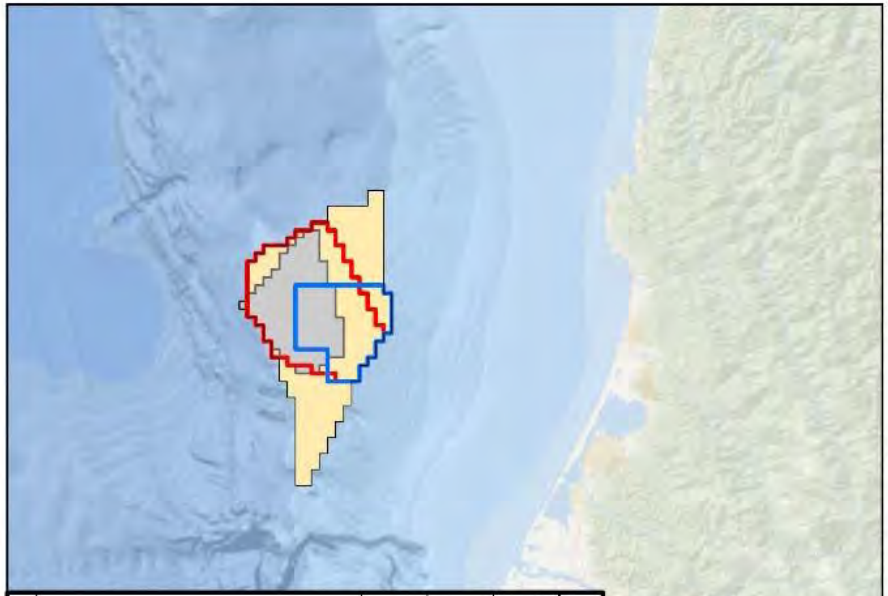
Offshore Wind Project Update

April 25, 2019

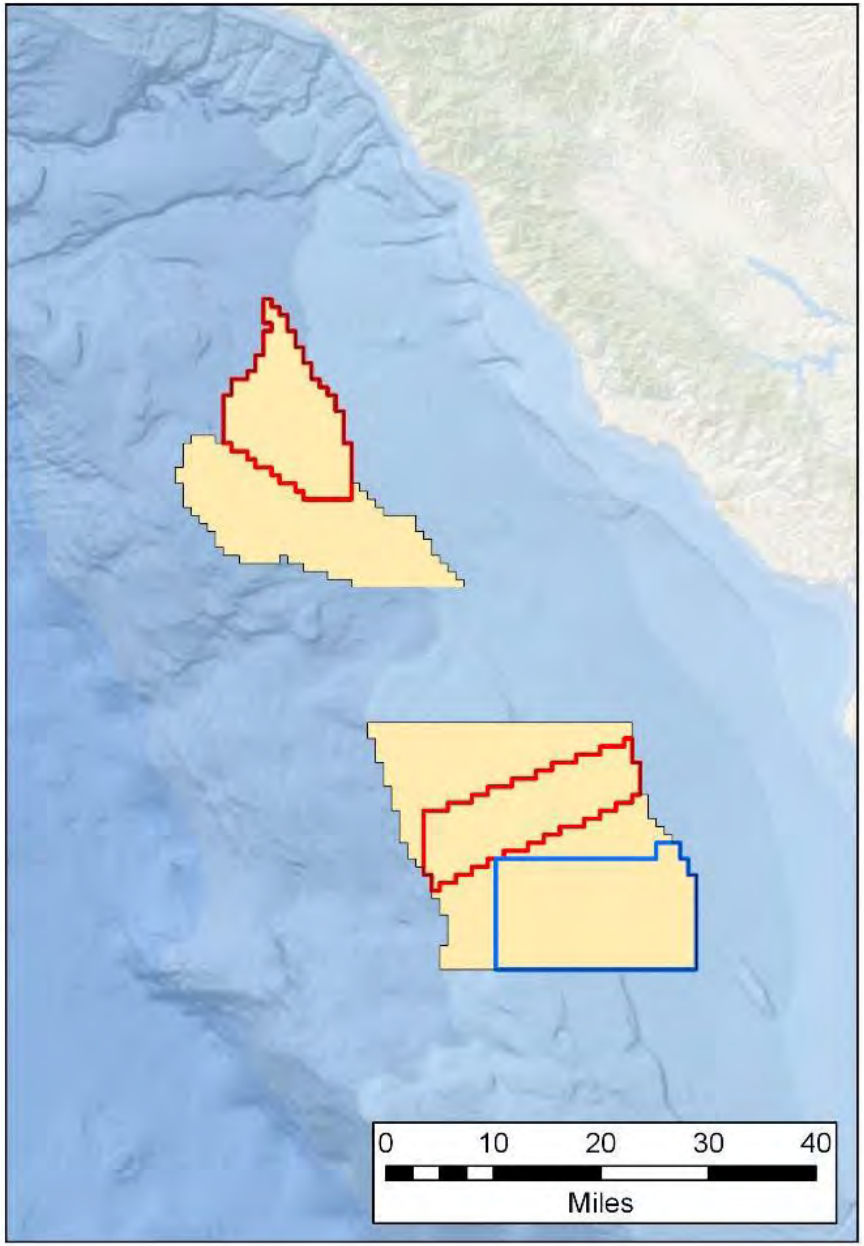
BOEM Lease Process



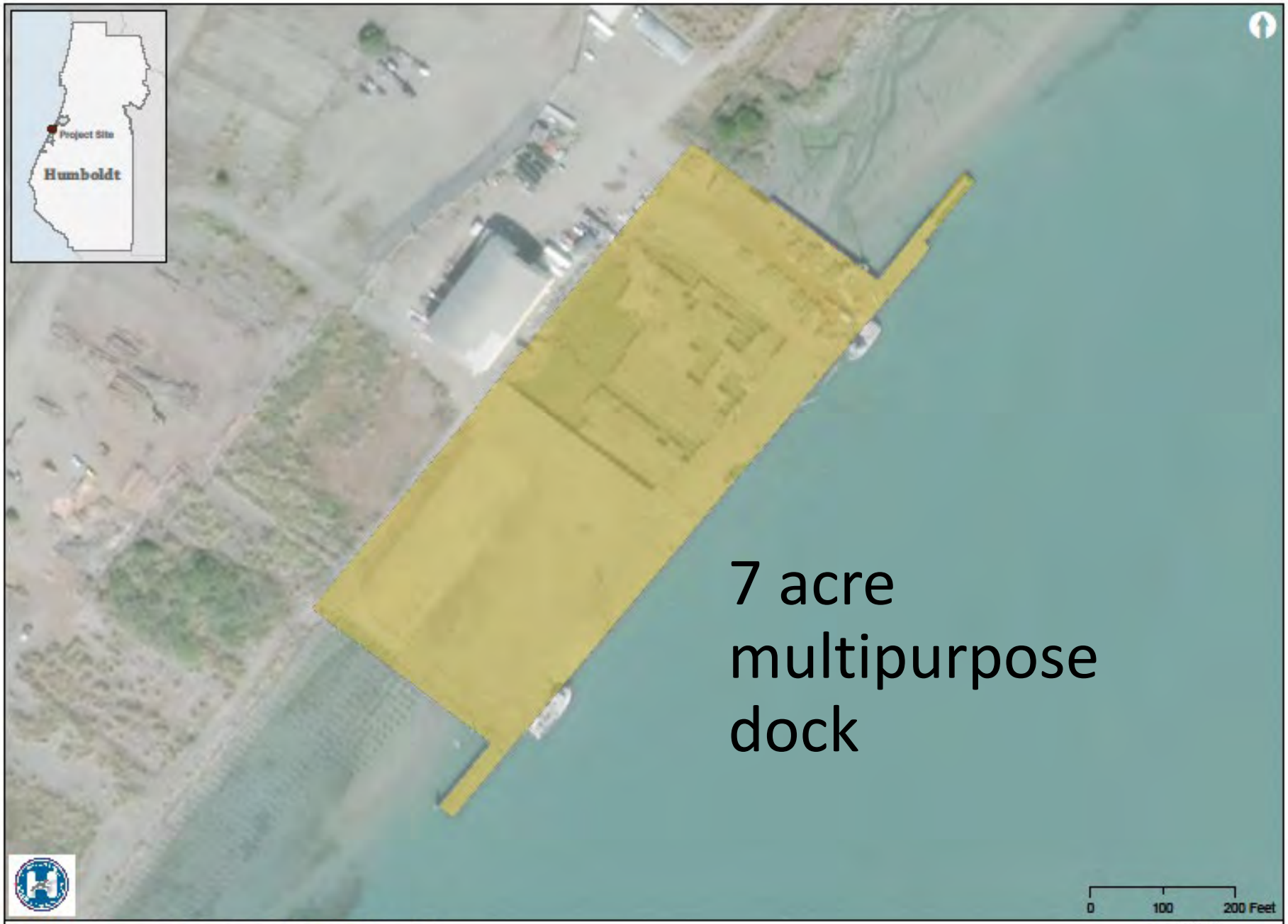
CA Call Nominations



#	Nomination	Humboldt	Morro Bay	Diablo Canyon
1	Algonquin Liberty Power			
2	wpd Offshore Alpha LLC			
3	Avangrid Renewables			
4	Castle Wind, Inc.			
5	Cierco Corporation			
6	EDF Renewables			
7	EDP Renewables (EDPR)			
8	EC&R (eON) Renewables			
9	Equinor Wind US LLC			
10	Mission Floating Wind (Magellan)			
11	Northcoast Floating Wind (Magellan)			
12	Northland Power			
13	Redwood Coast Energy Authority (RCEA)			
14	US Mainstream Renewable Power			



Harbor Upgrades



Redwood Marine Terminal I

Offshore Wind Terminal Areas

Map Created by:
PLANWEST PARTNERS, INC.
Date: 1/24/2019

Redwood Marine Terminal I

Offshore Wind Terminal Areas

Map Created by:
PLANWEST PARTNERS, INC.
Date: 1/24/2019

Jobs Project Report

- 18GW by 2045 would result in 17,500 jobs.
  - This is ~equivalent the amount of offshore wind installed in Europe or what is in the development pipeline on the east coast
- First baby-steps: 2019 internships with RCEA partners

RCEA Board Subcommittee

- Evaluating options for structuring the relationship with the project company (Redwood Coast Offshore Wind, LLC), focusing on desired outcomes:
  - Maximize project success
  - Maintain community oversight/involvement in decisions
  - Recover invested and ongoing costs with the same return on investment as private partners
  - Limit/minimize financial risk exposure
- Targeting subcommittee recommendation to the Board for discussion and decision in May/June.

Upcoming Event

Senator McGuire is convening a Joint Committee on Fisheries and Aquaculture informational hearing:

“The Future of Offshore Wind Energy and Fisheries in the Golden State: Challenges, Opportunities and Perspectives”

May 3, 2019 11:00 a.m. to 2:00 p.m.

Humboldt Bay Aquatic Center, Eureka.

REDWOOD COAST EnergyAuthority

STAFF REPORT

Agenda Item # 6.1

AGENDA DATE:	April 25, 2019
TO:	Board of Directors
PREPARED BY:	Lou Jacobson, Demand Side Management Director
SUBJECT:	County Climate Action Plan Contract

SUMMARY

RCEA is currently supporting the County of Humboldt's efforts to implement a multijurisdictional Climate Action Plan by providing:

1. $5,000 micro-grants to participating jurisdictions. Grants are expected to total $35,000 and were made possible by RCEA's Local Government Partnership (LGP) with PG&E,
2. And an additional $25,000 in match funding for RCEA staff time made available, in part, with LGP funding.

The County requested that RCEA provide additional support beyond what is made possible by the contributions noted above. RCEA and the County have been advancing a consultant contract that will extend RCEA's ability to support this activity. In addition, RCEA staff are integrating an update to the Comprehensive Action Plan for Energy into this effort.

FINANCIAL IMPACT

The contract value will not exceed $91,160.

RECOMMENDED ACTION

Authorize the Executive Director to execute a contract with the County of Humboldt to provide Climate Action Planning support services after final review and approval of any revisions by RCEA General Counsel.

ATTACHMENTS

1. County Climate Action Plan Draft Contract

AGREEMENT FOR PROFESSIONAL SERVICES
BETWEEN THE COUNTY OF HUMBOLDT AND
THE REDWOOD COAST ENERGY AUTHORITY

This Agreement, entered into this ___ day of _____, 2019, by and between the County of Humboldt ("COUNTY"), a political subdivision of the State of California, and the Redwood Coast Energy Authority, ("CONSULTANT"), a regional Joint Powers Authority, is made upon the following considerations. COUNTY and CONSULTANT are hereinafter also referred to collectively as the "Parties" and individually as a "Party".

RECITALS

WHEREAS, COUNTY, by and through its Department of Planning and Building, is developing the multi-jurisdictional Climate Action Plan for Humboldt County, and desires to retain the services of a qualified professional to provide technical services in preparing energy use and greenhouse gas (GHG) emissions inventories, assessments, and forecasts.

WHEREAS, such work involves the performance of professional, expert and technical services of a temporary and occasional character; and

WHEREAS, COUNTY has no employees available to perform such services and is unable to hire employees for the performance thereof for the temporary period; and

WHEREAS, CONTRACTOR represents that it is specially trained, skilled, experienced and qualified to perform the special services required by COUNTY**.**

NOW THEREFORE, the parties hereto mutually agree as follows:

1. DESCRIPTION OF SERVICES:

CONTRACTOR agrees to furnish the services described in Exhibit A – Scope of Services, which is attached hereto and incorporated herein by reference. In providing such services, CONTRACTOR agrees to fully cooperate with the Director of the Department of Planning and Building, or designee thereof, hereinafter referred to as the Planning Director.

2. TERM:

This Agreement shall begin upon execution by both parties and shall remain in full force and effect until [_____ __, 20__], unless sooner terminated as provided herein.
CONSULTANT agrees to commence work as of the date first written above and complete the work no later than June 30, 2020.

3. TERMINATION:

A. Breach of Contract. If, in the opinion of COUNTY, CONTRACTOR fails to adequately perform the services required hereunder within the time limits specified herein, or

otherwise fails to comply with the terms of this Agreement, or violates any ordinance, regulation or other law applicable to its performance herein, COUNTY may terminate this Agreement immediately, upon notice.

B. Without Cause. COUNTY may terminate this Agreement without cause upon thirty (30) days advance written notice to CONTRACTOR. Such notice shall state the effective date of the termination.

C. Insufficient Funding. COUNTY's obligations under this Agreement are contingent upon the availability of local, state and/or federal funds. In the event such funding is reduced or eliminated, COUNTY shall, at its sole discretion, determine whether this Agreement shall be terminated. COUNTY shall provide CONTRACTOR seven (7) days advance written notice of its intent to terminate this Agreement due to insufficient funding.

D. Compensation Upon Termination. In the event of any termination of this Agreement, CONTRACTOR shall be entitled to compensation for uncompensated services rendered hereunder through and including the effective date of such termination. However, this provision shall not limit or reduce any damages owed to COUNTY due to a breach of this Agreement by CONTRACTOR.

4. COMPENSATION:

A. Maximum Amount Payable. The maximum amount payable by COUNTY for services rendered, and costs and expenses incurred, pursuant to the terms and conditions of this Agreement is [_____] Dollars ($__,___.__). CONTRACTOR agrees to perform all services required by this Agreement for an amount not to exceed such maximum dollar amount. However, if local, state or federal funding or allowance rates are reduced or eliminated, COUNTY may, by amendment, reduce the maximum amount payable for services provided hereunder, or terminate this Agreement as provided herein.

B. Schedule of Rates. The specific rates and costs applicable to this Agreement are set forth in Exhibit B – Schedule of Rates, which is attached hereto and incorporated herein by reference.

C. Additional Services. Any additional services not otherwise provided for herein shall not be provided by CONTRACTOR, or compensated by COUNTY, without written authorization by COUNTY. All unauthorized costs and expenses incurred above the maximum payable amount set forth herein shall be the responsibility of CONTRACTOR. CONTRACTOR shall notify COUNTY, in writing, at least six (6) weeks prior to the date upon which CONTRACTOR estimates that the maximum payable amount will be reached.

5. PAYMENT:

CONTRACTOR shall submit to COUNTY ____[annual/semi-annual/quarterly/monthly]____ invoices itemizing all services rendered, and costs and expenses incurred, pursuant to the terms and conditions of this Agreement. Invoices shall be in a format approved by, and shall include backup documentation as specified by, ____[Short title of Department Head or Division Director]____ and the Humboldt County Auditor-Controller. CONTRACTOR shall submit a final invoice for payment within thirty (30) days following the expiration or termination date of this Agreement. Payment for services rendered, and costs and expenses incurred, pursuant to the terms and conditions of this Agreement will be made within thirty (30) days after the receipt of approved invoices. All invoices submitted by CONTRACTOR shall be sent to COUNTY at the following address:

COUNTY: Department of Planning & Building
Attention: Michael Richardson
3015 H Street
Eureka, CA 95501

6. NOTICES:

Any and all notices required to be given pursuant to the terms of this Agreement shall be in writing and either served personally or sent by certified mail, return receipt requested, to the respective addresses set forth below. Notice shall be effective upon actual receipt or refusal as shown on the receipt obtained pursuant to the foregoing.

COUNTY: Department of Planning & Building
Attention: Michael Richardson
3015 H Street
Eureka, CA 95501

CONTRACTOR: Redwood Coast Energy Authority
Attention: Matthew Marshall
633 3rd Street
Eureka, CA 95501

7. REPORTS:

CONTRACTOR shall also submit all reports in the following format: one (1) hard copy and one (1) electronic copy that complies with the Americans with Disabilities Act of 1990 and any other applicable accessibility laws, standards, regulations, policies and procedures. CONTRACTOR agrees to provide COUNTY with any and all reports that may be required by local, state and/or federal agencies for compliance with this Agreement. Reports shall be submitted no later than fifteen (15) days after the end of each calendar quarter using the format required by the State of California as appropriate. CONTRACTOR shall also submit all reports in the following format:

one (1) hard copy and one (1) electronic copy that complies with the Americans with Disabilities Act of 1990 and any other applicable accessibility laws, standards, regulations, policies and procedures.

8. RECORD RETENTION AND INSPECTION:

A. Maintenance and Preservation of Records. CONTRACTOR agrees to timely prepare accurate and complete financial, performance and payroll records, documents and other evidence relating to the services provided hereunder, and to maintain and preserve said records for at least three (3) years from the date of final payment under this Agreement, except that if any litigation, claim, negotiation, audit or other action is pending, the records shall be retained until completion and resolution of all issues arising therefrom. The books and records shall be original entry books with a general ledger itemizing all debits and credits for the services provided pursuant to the terms and conditions of this Agreement.

B. Inspection of Records. Pursuant to California Government Code Section 8546.7, all records, documents, conditions and activities of CONTRACTOR, and its subcontractors, related to the services provided hereunder, shall be subject to the examination and audit of the California State Auditor and any other duly authorized agents of the State of California for a period of three (3) years after final payment under this Agreement. CONTRACTOR hereby agrees to make all such records available during normal business hours to inspection, audit and reproduction by COUNTY and any duly authorized local, state and/or federal agencies. CONTRACTOR further agrees to allow interviews of any of its employees who might reasonably have information related to such records by COUNTY and any duly authorized local, state and/or federal agencies. All examinations and audits conducted hereunder shall be strictly confined to those matters connected with the performance of this Agreement, including, but not limited to, the costs of administering this Agreement.

C. Audit Costs. In the event of an audit exception or exceptions related to the services provided pursuant to the terms and conditions of this Agreement, the party responsible for not meeting the requirements set forth herein shall be responsible for the deficiency and for the cost of the audit. If the allowable expenditures cannot be determined because CONTRACTOR's documentation is nonexistent or inadequate, according to generally accepted accounting practices, the questionable cost shall be disallowed by COUNTY.

9. MONITORING:

CONTRACTOR agrees that COUNTY has the right to monitor all activities related to this Agreement, including, without limitation, the right to review and monitor CONTRACTOR's records, programs or procedures, at any time, as well as the overall operation of CONTRACTOR's

programs, in order to ensure compliance with the terms and conditions of this Agreement. CONTRACTOR will cooperate with a corrective action plan, if deficiencies in CONTRACTOR's records, programs or procedures are identified by COUNTY. However, COUNTY is not responsible, and will not be held accountable, for overseeing or evaluating the adequacy of the results of services performed by CONTRACTOR pursuant to the terms and conditions of this Agreement.

10. CONFIDENTIAL INFORMATION:

A. Disclosure of Confidential Information. In the performance of this Agreement, CONTRACTOR may receive information that is confidential under local, state or federal law. CONTRACTOR hereby agrees to protect all confidential information in conformance with any and all applicable local, state and federal laws, regulations, policies, procedures and standards, including, but not limited to: California Welfare and Institutions Code Sections 827, 5328, 10850 and 14100.2; California Health and Safety Code Sections 1280.15 and 1280.18; the California Information Practices Act of 1977; the California Confidentiality of Medical Information Act ("CMIA"); the United States Health Information Technology for Economic and Clinical Health Act ("HITECH Act"); the United States Health Insurance Portability and Accountability Act of 1996 ("HIPAA") and any current and future implementing regulations promulgated thereunder, including, without limitation, the Federal Privacy Regulations contained in Title 45 of the Code of Federal Regulations ("C.F.R.") Parts 160 and 164, the Federal Security Standards contained in 45 C.F.R. Parts 160, 162 and 164 and the Federal Standards for Electronic Transactions contained in 45 C.F.R. Parts 160 and 162, all as may be amended from time to time.

B. Continuing Compliance with Confidentiality Laws. The parties acknowledge that local, state and federal laws, regulations and standards pertaining to confidentiality, electronic data security and privacy are rapidly evolving and that amendment of this Agreement may be required to ensure compliance with such developments. Each party agrees to promptly enter into negotiations concerning an amendment to this Agreement embodying written assurances consistent with the standards and requirements of HIPAA, the HITECH Act, the CMIA and any other applicable local, state and federal laws, regulations or standards.

11. NON-DISCRIMINATION COMPLIANCE :

A. Professional Services and Employment. In connection with the execution of this Agreement, CONTRACTOR, and its subcontractors, shall not unlawfully discriminate in the provision of professional services or against any employee or applicant for employment because of race, religion or religious creed, color, age (over forty (40) years of age), sex (including gender identity and expression, pregnancy, childbirth and related medical conditions), sexual orientation (including heterosexuality, homosexuality and bisexuality), national origin, ancestry, marital status, medical

condition (including cancer and genetic characteristics), mental or physical disability (including HIV status and AIDS), political affiliation, military service, denial of family care leave or any other classifications protected by local, state or federal laws or regulations. Nothing herein shall be construed to require the employment of unqualified persons.

B. Compliance with Anti-Discrimination Laws. CONTRACTOR further assures that it, and its subcontractors, will abide by the applicable provisions of: Title VI and Title VII of the Civil Rights Act of 1964; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975; the Food Stamp Act of 1977; Title II of the Americans with Disabilities Act of 1990; the California Fair Employment and Housing Act; California Civil Code Sections 51, et seq.; California Government Code Sections 4450, et seq.; California Welfare and Institutions Code Section 10000; Division 21 of the California Department of Social Services Manual of Policies and Procedures; United States Executive Order 11246, as amended and supplemented by United States Executive Order 11375 and 41 C.F.R. Part 60; and any other applicable local, state and/or federal laws and regulations, all as may be amended from time to time. The applicable regulations of the California Fair Employment and Housing Commission implementing California Government Code Section 12990, set forth in Chapter 5, Division 4 of Title 2 of the California Code of Regulations are incorporated into this Agreement by reference and made a part hereof as if set forth in full.

12. NUCLEAR FREE HUMBOLDT COUNTY ORDINANCE COMPLIANCE:

CONTRACTOR certifies by its signature below that it is not a Nuclear Weapons Contractor, in that CONTRACTOR is not knowingly or intentionally engaged in the research, development, production or testing of nuclear warheads, nuclear weapons systems or nuclear weapons components, as defined by the Nuclear Free Humboldt County Ordinance. CONTRACTOR agrees to notify COUNTY immediately if it becomes a Nuclear Weapons Contractor as defined above. COUNTY may immediately terminate this Agreement if it determines that the foregoing certification is false or if CONTRACTOR subsequently becomes a Nuclear Weapons Contractor.

13. DRUG-FREE WORKPLACE CERTIFICATION:

By executing this Agreement, CONTRACTOR certifies that it will comply with the requirements of the Drug-Free Workplace Act of 1990 (California Government Code Sections 8350, et seq.) and will provide a drug-free workplace by doing all of the following:

A. Drug-Free Policy Statement. Publish, as required by California Government Code Section 8355(a)(1), a Drug-Free Policy Statement which notifies employees that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance is prohibited, and specifies the actions to be taken against employees for violations.

B. Drug-Free Awareness Program. Establish, as required by California Government Code Section 8355(a)(2), a Drug-Free Awareness Program which informs employees about the following:

1. The dangers of drug abuse in the workplace;

2. CONTRACTOR's policy of maintaining a drug-free workplace;

3. Any available counseling, rehabilitation and employee assistance programs; and

4. Penalties that may be imposed upon employees for drug abuse violations.

C. Drug-Free Employment Agreement. Ensure, as required by California Government Code Section 8355(a)(3), that every employee who provides services pursuant to the terms and conditions of this Agreement will:

1. Receive a copy of CONTRACTOR's Drug-Free Policy Statement; and

2. Agree to abide by the terms of CONTRACTOR's Drug-Free Policy as a condition of employment.

D. Effect of Noncompliance. Failure to comply with the above-referenced requirements may result in suspension of payments under this Agreement and/or termination thereof, and CONTRACTOR may be ineligible for award of future contracts if COUNTY determines that the foregoing certification is false or if CONTRACTOR violates the certification by failing to carry out the above-referenced requirements.

14. INDEMNIFICATION:

A. Hold Harmless, Defense and Indemnification. CONTRACTOR shall hold harmless, defend and indemnify COUNTY and its agents, officers, officials, employees and volunteers from and against any and all claims, demands, losses, damages, liabilities, expenses and costs of any kind or nature, including, without limitation, attorney's fees and other costs of litigation, arising out of, or in connection with, CONTRACTOR's negligent performance of, or failure to comply with, any of the duties and/or obligations contained herein, except such loss or damage which was caused by the sole negligence

or willful misconduct of COUNTY.

B. Effect of Insurance. Acceptance of insurance, if required by this Agreement, does not relieve CONTRACTOR from liability under this provision. This provision shall apply to all claims for damages related to the services performed by CONTRACTOR pursuant to the terms and conditions of this Agreement regardless if any insurance is applicable or not. The insurance policy limits set forth herein shall not act as a limitation upon the amount of indemnification or defense to be provided by CONTRACTOR hereunder.

15. INSURANCE REQUIREMENTS:

This Agreement shall not be executed by COUNTY, and CONTRACTOR is not entitled to any rights hereunder, unless certificates of insurance or other sufficient proof that the following provisions have been complied with, are filed with the Clerk of the Humboldt County Board of Supervisors.

A. General Insurance Requirements. Without limiting CONTRACTOR's indemnification obligations provided for herein, CONTRACTOR shall, and shall require that all subcontractors hereunder, take out and maintain, throughout the entire period of this Agreement, and any extended term thereof, the following policies of insurance, placed with insurers authorized to do business in the State of California with a current A.M. Bests rating of no less than A: VII or its equivalent against personal injury, death and property damage which may arise from, or in connection with, the activities of CONTRACTOR and its agents, officers, directors, employees, licensees, invitees, assignees or subcontractors:

1. Comprehensive or Commercial General Liability Insurance at least as broad as Insurance Services Office Commercial General Liability Coverage (occurrence form CG 0001), in an amount of Two Million Dollars ($2,000,000.00) per occurrence for any one incident, including, but not limited to, personal injury, death and property damage. If a general aggregate limit is used, such limit shall apply separately hereto or shall be twice the required occurrence limit.

2. Automobile/Motor Liability Insurance with a limit of liability not less than One Million Dollars ($1,000,000.00) combined single limit coverage. Such insurance shall include coverage of all owned, hired and non-owned vehicles. Said coverage shall be at least as broad as Insurance Service Offices Form Code 1 (any auto).

B. Special Insurance Requirements. Said policies shall, unless otherwise specified herein, be endorsed with the following provisions:

1. The Comprehensive or Commercial General Liability Policy shall provide that COUNTY, and its agents, officers, officials, employees and volunteers, are covered as additional insured for liability arising out of the operations

performed by, or on behalf of, CONTRACTOR. The coverage shall contain no special limitations on the scope of protection afforded to COUNTY, its agents, officers, officials, employees and volunteers. Said policy shall also contain a provision stating that such coverage:

a. Includes contractual liability.

b. Does not contain exclusions as to loss or damage to property caused by explosion or resulting from collapse of buildings or structures or damage to property underground, commonly referred to as "XCU Hazards."

c. Is the primary insurance with regard to COUNTY.

d. Does not contain a pro-rata, excess only and/or escape clause.

e. Contains a cross liability, severability of interest or separation of insureds clause.

2. The above-referenced policies shall not be canceled, non-renewed or materially reduced in coverage without thirty (30) days prior written notice being provided to COUNTY in accordance with the notice provisions set forth herein. It is further understood that CONTRACTOR shall not terminate such coverage until COUNTY receives adequate proof that equal or better insurance has been secured.

3. The inclusion of more than one insured shall not operate to impair the rights of one insured against another insured, and the coverage afforded shall apply as though separate policies had been issued to each insured, but the inclusion of more than one insured shall not operate to increase the limits of the insurer's liability.

4. For claims related to this Agreement, CONTRACTOR's insurance is the primary coverage to COUNTY, and any insurance or self-insurance programs maintained thereby are excess to CONTRACTOR's insurance and will not be used to contribute therewith.

5. Any failure to comply with the provisions of this Agreement, including breach of warranties, shall not affect coverage provided to COUNTY, its agents, officers, officials, employees and volunteers.

6. CONTRACTOR shall furnish COUNTY with certificates and original endorsements effecting the required coverage prior to execution of this Agreement. The endorsements shall be on forms approved by the Humboldt County Risk Manager or County Counsel. Any deductible or self-insured

retention over One Hundred Thousand Dollars ($100,000.00) shall be disclosed to, and approved by, COUNTY. If CONTRACTOR does not keep all required policies in full force and effect, COUNTY may, in addition to other remedies under this Agreement, take out the necessary insurance, and CONTRACTOR agrees to pay the cost thereof. COUNTY is also hereby authorized with the discretion to deduct the cost of said insurance from the monies owed to CONTRACTOR under this Agreement.

7. COUNTY is to be notified immediately if twenty-five percent (25%) or more of any required insurance aggregate limit is encumbered, and CONTRACTOR shall be required to purchase additional coverage to meet the above-referenced aggregate limits.

C. Insurance Notices. Any and all insurance notices required to be given pursuant to the terms of this Agreement shall be sent to the addresses set forth below in accordance with the notice provisions described herein.

COUNTY: County of Humboldt
Attention: Risk Management
825 Fifth Street, Room 131
Eureka, California 95501

CONTRACTOR: Redwood Coast Energy Authority
Attention: Matthew Marshall
633 3rd Street
Eureka, California 95501

16. RELATIONSHIP OF PARTIES:

It is understood that this is an Agreement by and between two (2) independent entities and is not intended to, and shall not be construed to, create the relationship of agent, servant, employee, partnership, joint venture or any other similar association. Both parties further agree that CONTRACTOR shall not be entitled to any benefits to which COUNTY employees are entitled, including, but not limited to, overtime, retirement benefits, leave benefits or workers' compensation. CONTRACTOR shall be solely responsible for the acts or omissions of its agents, officers, employees, assignees and subcontractors.

17. COMPLIANCE WITH APPLICABLE LAWS AND LICENSURE REQUIREMENTS:

CONTRACTOR agrees to comply with any and all local, state and federal laws, regulations, policies and procedures applicable to the services provided pursuant to the terms and conditions of this Agreement. CONTRACTOR further agrees to comply with any and all applicable local, state and federal licensure and certification requirements.

18. PROVISIONS REQUIRED BY LAW:

This Agreement is subject to any additional local, state and federal restrictions, limitations, or conditions that may affect the provisions, terms or funding of this Agreement. This Agreement shall be read and enforced as though all legally required provisions are included herein, and if for any reason any such provision is not included, or is not correctly stated, the parties agree to amend the pertinent section to make such insertion or correction.

19. REFERENCE TO LAWS AND RULES:

In the event any law, regulation, policy or procedure referred to in this Agreement is amended during the term hereof, the parties agree to comply with the amended provision as of the effective date of such amendment.

20. SEVERABILITY:

If any provision of this Agreement, or any portion thereof, is found by any court of competent jurisdiction to be unenforceable or invalid for any reason, such provision shall be severable and shall not in any way impair the enforceability of any other provision of this Agreement.

21. ASSIGNMENT:

Neither party shall delegate its duties nor assign its rights hereunder, either in whole or in part, without the other party's prior written consent. Any assignment by CONTRACTOR in violation of this provision shall be void, and shall be cause for immediate termination of this Agreement. This provision shall not be applicable to service agreements or other arrangements usually or customarily entered into by either party to obtain supplies, technical support or professional services.

22. AGREEMENT SHALL BIND SUCCESSORS:

All provisions of this Agreement shall be fully binding upon, and inure to the benefit of, the parties and to each of their heirs, executors, administrators, successors and permitted assigns.

23. WAIVER OF DEFAULT:

The waiver by either party of any breach or violation of any requirement of this Agreement shall not be deemed to be a waiver of any such breach in the future, or of the breach of any other requirement of this Agreement. In no event shall any payment by COUNTY constitute a waiver of any breach of this Agreement or any default which may then exist on the part of CONTRACTOR. Nor shall such payment impair or prejudice any remedy available to COUNTY with respect to any breach or default. COUNTY shall have the right to demand repayment of, and CONTRACTOR shall promptly refund, any funds disbursed to CONTRACTOR which in the judgment of COUNTY were not expended in accordance with the

terms of this Agreement.

24. NON-LIABILITY OF COUNTY OFFICIALS AND EMPLOYEES:

No official or employee of COUNTY shall be personally liable for any default or liability under this Agreement.

25. AMENDMENT:

This Agreement may be amended at any time during the term of this Agreement upon the mutual consent of both parties. No addition to, or alteration of, the terms of this Agreement shall be valid unless made in writing and signed by the parties hereto.

26. STANDARD OF PRACTICE:

CONTRACTOR warrants that it has the degree of learning and skill ordinarily possessed by reputable professionals practicing in similar localities in the same profession and under similar circumstances. CONTRACTOR's duty is to exercise such care, skill and diligence as professionals engaged in the same profession ordinarily exercise under like circumstances.

27. TITLE TO INFORMATION AND DOCUMENTS:

It is understood that any and all documents, information and reports concerning the subject matter of this Agreement prepared and/or submitted by CONTRACTOR shall become the property of COUNTY. However, CONTRACTOR may retain copies of such documents and information for its records. In the event of termination of this Agreement, for any reason whatsoever, CONTRACTOR shall promptly turn over all information, writings and documents pertaining to the services provided hereunder to COUNTY without exception or reservation.

28. JURISDICTION AND VENUE:

This Agreement shall be construed in accordance with the laws of the State of California. Any dispute arising hereunder, or relating hereto, shall be litigated in the State of California and venue shall lie in the County of Humboldt unless transferred by court order pursuant to California Code of Civil Procedure Sections 394 or 395.

29. ADVERTISING AND MEDIA RELEASE:

All informational material related to this Agreement shall receive approval from COUNTY prior to being used as advertising or released to the media, including, but not limited to, television, radio, newspapers and internet. CONTRACTOR shall inform COUNTY of all requests for interviews by the media related to this Agreement before such interviews take place; and COUNTY shall be entitled to have a representative present at such interviews. All notices required by this provision shall be given to the Planning Director.

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30. SUBCONTRACTS:

CONTRACTOR shall obtain prior written approval from COUNTY before subcontracting any of the services to be provided hereunder. Any and all subcontracts shall be subject to all applicable terms and conditions of this Agreement, including, without limitation, the licensing, certification and confidentiality requirements set forth herein. CONTRACTOR shall remain legally responsible for the performance of all terms and conditions of this Agreement, including work performed by third parties under subcontracts, whether approved by COUNTY or not.

31. ATTORNEYS' FEES:

If either party shall commence any legal action or proceeding, including an action for declaratory relief, against the other by reason of the alleged failure of the other to perform or keep any provision of this Agreement to be performed or kept, the party prevailing in said action or proceeding shall be entitled to recover court costs and reasonable attorneys' fees, including the reasonable value of services rendered by the Humboldt County Counsel's Office, to be fixed by the court, and such recovery shall include court costs and attorneys' fees on appeal, if applicable. As used herein, "prevailing party" means the party who dismisses an action or proceeding in exchange for payment of substantially all sums allegedly due, performance of provisions allegedly breached, or other considerations substantially equal to the relief sought by said party, as well as the party in whose favor final judgment is rendered.

32. SURVIVAL:

The duties and obligations of the parties set forth in Section [__] – Compensation Upon Termination, Section [__] – Record Retention and Inspection, Section [__] – Confidential Information and Section [__] – Indemnification shall survive the expiration or termination of this Agreement.

33. CONFLICTING TERMS OR CONDITIONS:

In the event of any conflict in the terms or conditions set forth in any other agreements in place between the parties hereto and the terms and conditions set forth in this Agreement, the terms and conditions set forth herein shall have priority.

34. INTERPRETATION:

This Agreement, as well as its individual provisions, shall be deemed to have been prepared equally by both of the parties hereto, and shall not be construed or interpreted more favorably for one party on the basis that the other party prepared it.

35. INDEPENDENT CONSTRUCTION:

The titles of the sections, subsections and paragraphs set forth in this Agreement are inserted for convenience of reference only, and shall be disregarded in construing or interpreting any of the provisions of this Agreement.

36. FORCE MAJEURE:

Neither party hereto shall be liable or responsible for delays or failures in performance resulting from events beyond the reasonable control of such party and without fault or negligence of such party. Such events shall include, without limitation, acts of God, strikes, lockouts, riots, acts of war, epidemics, acts of government, fire, power failures, nuclear accidents, earthquakes, unusually severe weather, acts of terrorism or other disasters, whether or not similar to the foregoing.

37. ENTIRE AGREEMENT:

This Agreement contains all of the terms and conditions agreed upon by the parties hereto and no other agreements, oral or otherwise, regarding the subject matter of this Agreement shall be deemed to exist or to bind either of the parties hereto. In addition, this Agreement shall supersede in its entirety any and all prior agreements, promises, representations, understandings and negotiations of the parties, whether oral or written, concerning the same subject matter. Any and all acts which may have already been consummated pursuant to the terms and conditions of this Agreement are hereby ratified.

38. AUTHORITY TO EXECUTE:

Each person executing this Agreement represents and warrants that he or she is duly authorized and has legal authority to execute and deliver this Agreement. Each party represents and warrants to the other that the execution and delivery of this Agreement and the performance of such party's obligations hereunder have been duly authorized.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date and year first herein above written.

COUNTY:	CONSULTANT:
_____	_____
_____	Matthew Marshall, Executive Director
County of Humboldt	Redwood Coast Energy Authority
Date: _____	Date: _____

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EXHIBIT A: SCOPE OF WORK

TBD

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EXHIBIT B: BUDGET

CONSULTANT will perform the services described in the above scope of work for a not-to-exceed amount of $TBD. In addition, CONSULTANT will provide $25,000 in cost share to the project.

Below are the billable labor rates for Redwood Coast Energy Authority:

Position/Title	Max Billable Hourly Rate
Executive Director	$100.00
Director	$80.00
Senior Manager	$70.00
Manager	$60.00
Senior Technician	$60.00
Technician	$55.00
Senior Specialist	$50.00
Specialist	$45.00
Assist/Coordinator/Associate (Regular)	$35.00
Assist/Coordinator/Associate (Temp Non-Benefited)	$25.00

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This document was received at the April 25, 2019, Board meeting.

EXHIBIT A: SCOPE OF WORK

Task 1: Project Collaboration
CONSULTANT shall: Attend up to four project meetings alongside the County and City representatives, and coordinate and collaborate climate action plan activities with County of Humboldt CivicSpark Fellow throughout the agreement Term.

Task 2: 1990 GHG Inventory
CONSULTANT shall: Assess data availability for a 1990 county-wide GHG inventory or "backcast." If reliable data is available, develop an estimate of 1990 emissions.
Task 1 Deliverables:

- 2a) Provide a verbal report to the County on the feasibility of and potential methodology for conducting a 1990 GHG inventory
- 2b) If data is available, develop an inventory in Excel and provide a report on 1990 emissions.

Task 3: GHG Forecasting
CONSULTANT shall: Assess feasibility for working with CivicSpark Fellow to develop multiple emissions forecast scenarios and ensure forecasts for each jurisdiction incorporate reductions from existing and future state and regional programs. If feasible, complete forecast and incorporate said reductions.
Task 3 Deliverables:

- 3a) Provide carbon intensity factors for state and regional programs, as well as starting values and growth rates for select emissions sources.

Task 4: GHG reductions projections
CONSULTANT shall: Calculate the emissions reduction potential for each of the measures developed in the Humboldt County Climate Action Plan using SEEC ClearPath and other tools, as applicable.
Task 4 Deliverables:

- 4a) Provide a graphical report of the greenhouse gas reductions potential of each measure, for inclusion in the Climate Action Plan.

Task 5: Feasibility, Cost/Savings Analysis
CONSULTANT shall: , in collaboration with CivicSpark Fellow, identify community co-benefits, implementation steps, responsible parties and project-specific costs/savings for select CAP measures only for jurisdictions who contribute to consultant costs. If feasible, complete said cost/savings analysis.
Task 4 Deliverables:

- 5a) Provide information for implementation cost/benefit reports for select CAP measures. Reports should be informed by conditions in the jurisdiction in which the measure will be implemented.

Task 6: Implementation: metrics/progress indicators/measurement and verification
CONSULTANT shall: Define the process for quantifying emissions reduction associated with CAP measures and calculate emissions reductions associated with CAP measures.
Task 6 Deliverables:

- 6a) Provide the 2015 greenhouse gas inventory results for
- 6b) Provide the 2015 greenhouse gas inventory results for

6c) Provide the 2015 greenhouse gas inventory results for

6d) Provide the 2015 greenhouse gas inventory results for

6e) Complete a methodology report that includes defined metrics and methods for measurement and verification.

Task 7: Sequestration inventory of natural and working lands

CONSULTANT shall: Develop, or work with a subcontractor to develop, an inventory of the carbon sequestration potential of forestry and agricultural resources in Humboldt County.

Task 7 Deliverables:

7a) Provide a brief report summarizing the biological carbon sequestration of Humboldt County forestry and agricultural lands for inclusion in the Climate Action Plan.

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REDWOOD COAST EnergyAuthority

STAFF REPORT

Agenda Item # 6.2

AGENDA DATE:	April 25, 2019
TO:	Board of Directors
PREPARED BY:	Lou Jacobson, Demand Side Management Director
SUBJECT:	Energy Efficiency Programs: The Election of Program Administrator Status

SUMMARY

RCEA has partnered with PG&E to implement the Energy Watch program to bring energy efficiency services to local government agencies, nonprofit organizations, small- to medium-sized businesses and Humboldt County residents since 2006. Due to regulatory requirements, PG&E is taking a significant portion of their programs to bid for 2020 implementation. RCEA responded by submitting three abstracts to continue historic services: non-residential, residential and education and outreach.

Several updates can be provided:

- RCEA's PG&E third-party non-residential direct install abstract was advanced.
- Residential direct install and our education and outreach abstracts were not advanced.
- PG&E notified RCEA that it is likely that our Local Government Partnership (LGP) contract will be extended until the end of fiscal year (FY) 2019-20 to bridge services as they take the sector to bid later in the calendar year.

Staff expect that without action, ratepayer service gaps will arise in 2020 and beyond. Staff are taking the following actions to minimize the likelihood of service gaps within our community:

1. Pursue the LGP contract, at minimum, through the end of FY 2019-20.
2. Advance the RCEA non-residential PG&E 3rd party abstract to full proposal.
3. Continue to explore and advance a Rural Regional Energy Network concept for 2021 and beyond.
4. Pursue the election of program administrator (PA) status for an approximate 2020 launch.

Staff recommend the election of PA status.

The election of PA status is allowed under Public Utility Code Section 381.1 (e)-(f) and furthered under California Public Utility Commission (CPUC) decision 14-01-033. 381.1 (e) authorizes CCAs to elect to become the administrator of energy efficiency funds collected from the aggregator's electric service customers for cost effective efficiency and conservation programs. 381.1 (f) states that the aggregator electing must submit a plan, approved by its governing board, and that this plan must include funding requirements, a program description, cost-effectiveness analysis, and the duration of the program. Section (f) also states that the plan:

- Be consistent with the goals of the programs established in 381.1 and section 399.4.

- Advances public interest by maximizing cost-effective electricity savings and related benefits.
- Accommodates statewide and regional programs.
- Includes audit and reporting requirements consistent with the requirements established by the commission.
- Includes evaluation, measurement, and verification protocols established by the community choice aggregator.
- Includes key performance metrics regarding the aggregator's achievements of the objectives listed above.

FINANCIAL IMPACT

In the long term, the election to administer efficiency programs will help ensure continued funding for local efficiency programs.

RECOMMENDED ACTION

Authorize staff to prepare an energy efficiency plan for Board approval and take all necessary actions to elect Program Administrator status.

ATTACHMENTS

None.

Groceries

Makhan Purewal
Bonomini Market

"When I bought the businesses many years ago my energy bill was too high, I needed to lower it. RCEA has done several different upgrade projects since 2009 in the store and in the laundromat. We're saving money, everything looks good. They've been easy to work with.

- ✓ # LED lamps installed = 47
- ✓ Estimated savings = over $2,380 annually
- ✓ 44% of the project was covered by EW Incentives
- ✓ Payback = 1.3 years

Energy efficiency services include:

- No-cost and no-obligation assessment of lighting, refrigeration, and other systems for which we can offer incentives to save you energy and lower your bill
- A report highlighting recommendations, incentive estimates, and financial summary
- Reduced upfront costs with incentives paid directly to the contractor
- Reduced-cost LED lighting upgrades
- Start to finish project management
- Assistance with 0%-interest project financing on your utility bill
- Electric rate analysis

Who is eligible?

Participants must have a non-residential PG&E electric and/or natural gas account. Residential services are also available, call us to find out more.

Fill out an application and return it to the Redwood Coast Energy Authority. **Don't delay, incentives are expected to decrease as LEDs become the new code requirement in 2020.**

Call us at (707) 269-1700

or email us at info@RedwoodEnergy.org

www.RedwoodEnergy.org

illuminations

Local businesses shed light on how they're saving energy and money.

Humboldt County businesses are leading the way to achieving economic and energy-reduction goals through reduced-cost or no-cost LED lighting upgrades.

REDWOOD COAST EnergyAuthority

Document received at April 25, 2019, Board meeting.

Restaurants

Lora Collins
Ridgetop Cafe

"When we heard about RCEA, we were excited to see what they had to offer! By helping us switch our lighting, they helped us to be not only more cost effective, but help the environment too! As a restaurant that takes pride in serving our community and raising our own cattle, we greatly appreciate everything RCEA is doing for the community as well!

- ✓ Over 64 LED lamps installed
- ✓ Estimated savings = over $428 annually
- ✓ Qualified for additional incentives making it a No-Cost project

Manufacturing

Kit Mann
Kokatat

"RCEA helped Kokatat convert all our factory lighting to LED. Even though we were replacing T8 fluorescents, it still reduced our energy consumption significantly, saving us money every day. Not only are we getting a great return on our investment, but we're also contributing to city and county energy and greenhouse gas reduction goals. And it's a better quality light to boot! With RCEA offering LED conversion assistance, there's just no reason not to make the switch now."

- ✓ Over 800 LED lamps installed
- ✓ Estimated savings = over $7000 annually
- ✓ 63% of the project was covered by EW Incentives
- ✓ Payback = 0.9 years

(totals from a 3-phase project)

Retail

Aaron Ostrom
Pacific Outfitters

"RCEA called me a couple of times, it took me awhile to realize there was no catch. They were offering a free assessment with no obligation.

They ended up replacing all my lighting with energy efficient LED bulbs at both my retail locations for free, and the payback for my warehouse took just a few months. It saved us thousands of dollars and cut our lighting bill by a large percentage. This opportunity was a no-brainer."

- ✓ Over 720 LED lamps installed
- ✓ Estimated savings = over $12,500 annually
- ✓ 70% of warehouse project was covered by EW Incentives
- ✓ Qualified for additional incentives making the stores a No-Cost project.
- ✓ Payback period for warehouse = .5 year

REDWOOD COAST EnergyAuthority

STAFF REPORT

Agenda Item # 7.1

AGENDA DATE:	April 25, 2019
TO:	Board of Directors
PREPARED BY:	Richard Engel, Director of Power Resources
SUBJECT:	Energy Risk Management Quarterly Report

BACKGROUND

The RCEA Board of Directors adopted an Energy Risk Management Policy in December 2016 in order to establish functions and procedures to manage the risks associated with the Community Choice Energy program's power procurement activities. In accordance with this policy, a quarterly update on activities and projected financial performance is presented to the Board during regularly scheduled meetings.

SUMMARY

Jaclyn Harr and Jeff Fuller of The Energy Authority (TEA) and RCEA staff will provide an Energy Risk Management quarterly program update.

RECOMMENDED ACTION

Accept Energy Risk Management Quarterly Report.

ATTACHMENTS

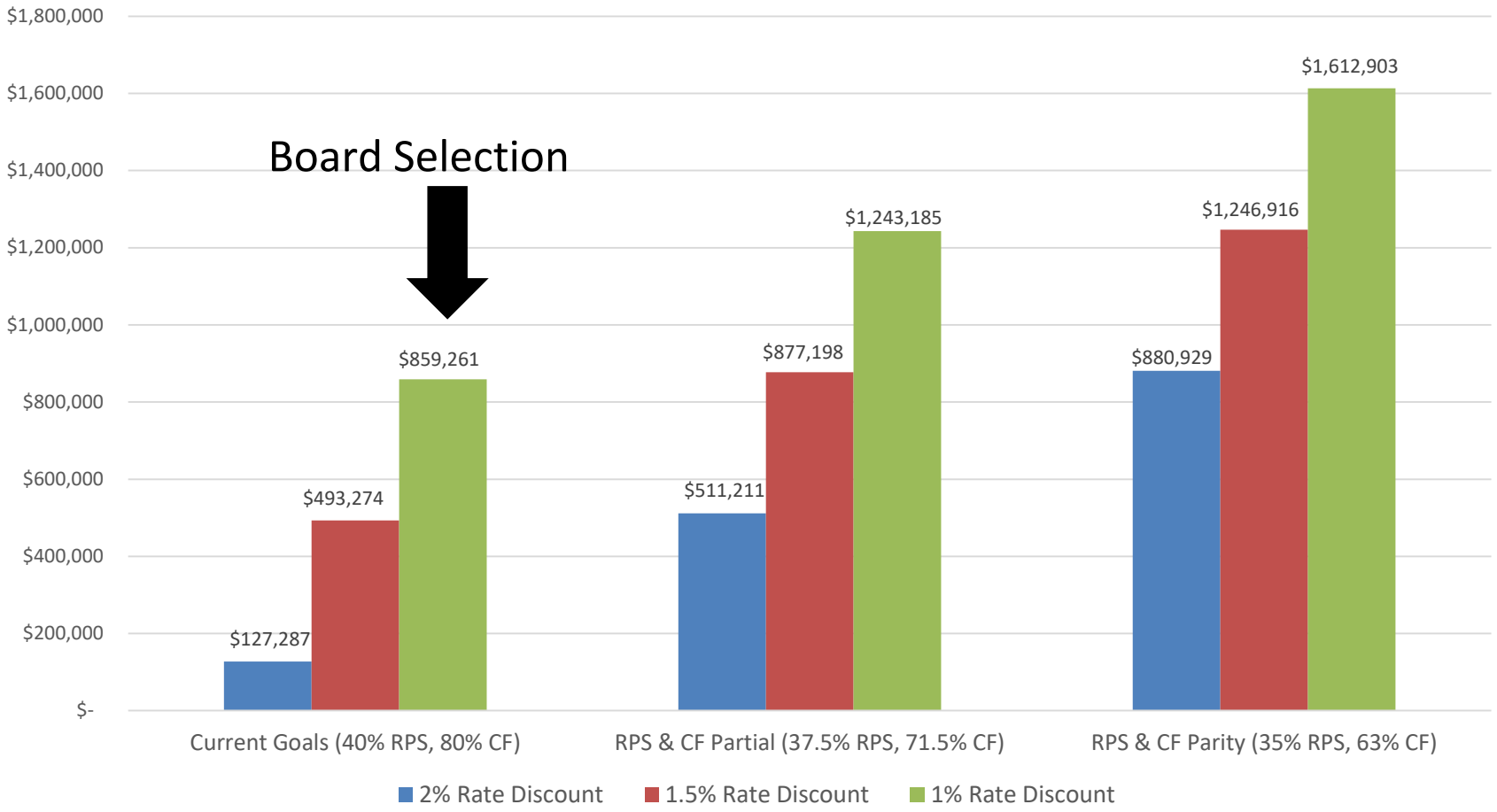
The April 2019 Energy Risk Management Quarterly Report slide presentation was not available at the time of agenda publication. The presentation will be made available to the Board and public at the April 25 meeting and added to the agenda packet online at *www.redwoodenergy.org*.

Redwood Coast Energy Authority Board Meeting

April 2019

This presentation was received after agenda publication.

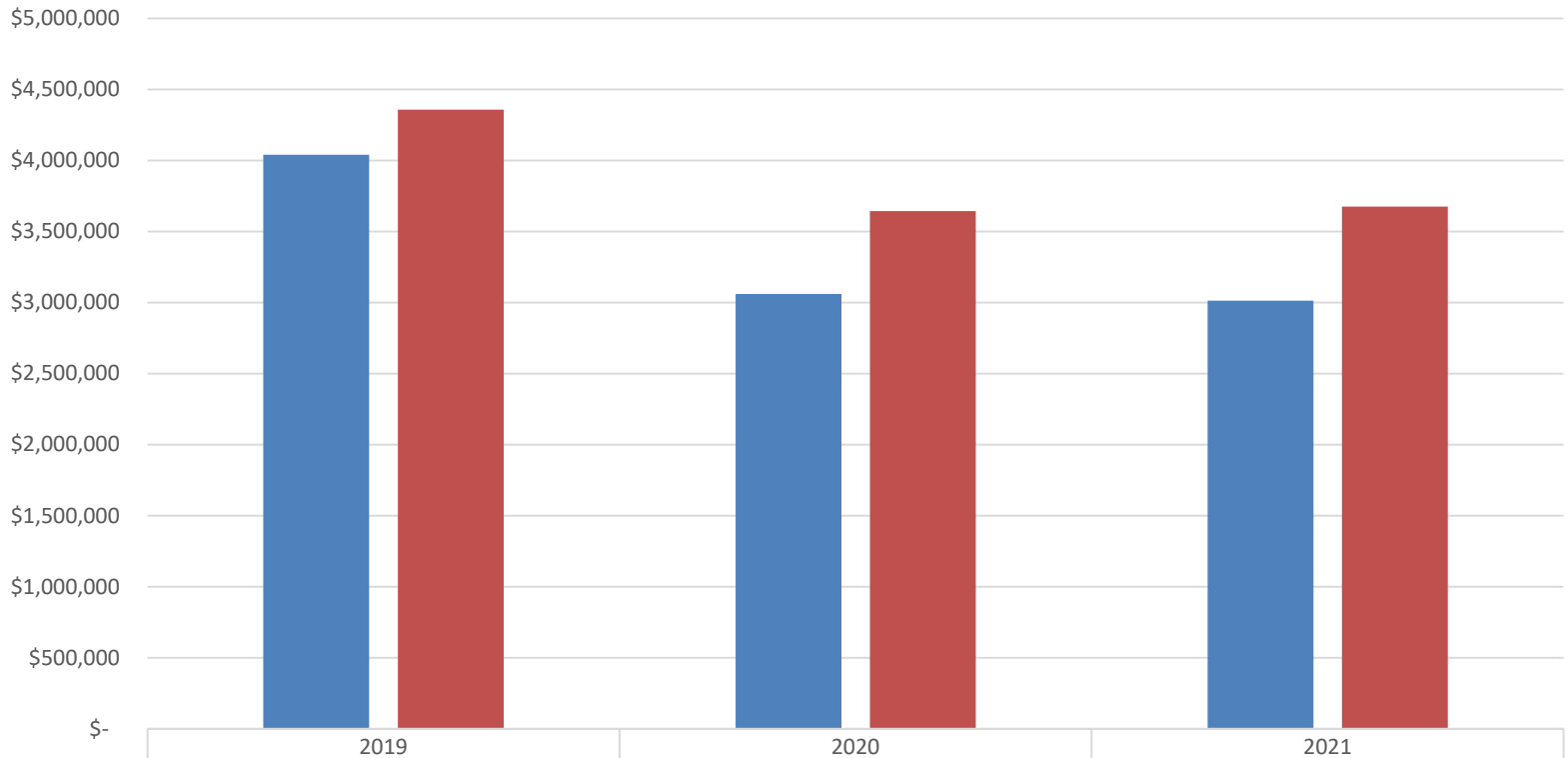
Where we left off:
2019 Net Revenue Scenario Analysis on 1/14/2019



Updates

- Revenues
  - PG&E's generation rate change for 2019 still pending, expected 5/1/2019
  - Forecast of PG&E gen rates increased relative to Jan 2019, increasing forecast 2019 revenue by ~$3M
- Costs
  - Cost of environmental products (RECs and carbon-free) has increased relative to Jan 2019 due to increased demand
- Overall
  - 2019 net revenue projection improved $2.4 M

RCEA Net Revenue



	2019	2020	2021
40% RPS, 80% CF	$4,040,917	$3,060,303	$3,013,389
37.5% RPS, 71.5% CF	$4,358,370	$3,644,299	$3,675,711

40% RPS, 80% CF 37.5% RPS, 71.5% CF

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REDWOOD COAST EnergyAuthority

STAFF REPORT
Agenda Item # 8.1

AGENDA DATE:	April 25, 2019
TO:	Board of Directors
PREPARED BY:	Mahayla Slackerelli, Account Services Manager
SUBJECT:	Residential Time-of-Use Transition

SUMMARY

In 2015, the California Public Utilities Commission (CPUC) published the Residential Rate Reform Decision requiring California's investor-owned utilities to transition most of their residential customers to Time-Of-Use (TOU) rates (D.15-07-001). This Decision is in response to Assembly Bill 327, which among other things called for restructuring rates to incentivize energy conservation.

In RCEA's service territory 89% of residential customers are on the E-1 rate. This flat rate has the same price for electricity at all times of the day. Unlike E-1, TOU rates charge customers more during the highest demand hours of the day and less in lower demand times. This rate structure approximates wholesale power costs more directly than flat rates. Higher rates at peak hours incentivize customers to conserve energy or shift their load from the highest demand hours, which have the greatest wholesale cost to RCEA and worst environmental impact.

CCAs are not required to participate in this transition. However, this is a statewide campaign with a huge amount of marketing, education and outreach resources to support it.

RCEA staff, as well as staff from the other Northern California CCAs, have been working with PG&E's TOU transition team throughout the planning process. The Residential TOU Transition is scheduled to begin in late 2020, with rolling transitions for different geographic regions. If the Board decides to include RCEA in this transition, RCEA's customers would be transitioned in June of 2021. RCEA's transition would be after the majority of communities and would benefit from the experience of their rollouts. At that time all eligible E-1 customers would be moved over to a TOU rate. Customers may choose to remain on or go back to their original flat rate. Certain groups of customers will be excluded from the mandatory transition, but can choose to switch to a TOU rate at any time:

- Customers on medical baseline.
- CARE/FERA customers and CARE/FERA eligible customers in hot climate zones.
- Customers with less than 12 months of interval data (e.g. recent move-ins, customers without SmartMeters).

In addition, Net Energy Metering customers will be transitioned in their annual true-up month.

The investor owned utilities are required to offer bill protection for customers transitioned to the TOU rate for the first year of service. If a customer would have done better on the flat rate, at the end of the

initial year the customer will receive a bill credit for the difference. Bill protection has been a valuable tool in easing customers into new rate structures. However, the CCAs are not required to provide bill protection to customers.

FINANCIAL IMPACTS

There are two ways that the TOU transition will impact CCA revenues. In the short term, if RCEA decides to provide bill protection for customers that do worse on TOU rates than on the original flat rate over the course of the first year, PG&E forecasts that RCEA would be responsible for $6,795 in bill credits issued to about 1,000 of RCEA's 35,000 customers to be transitioned. Staff performed a similar analysis, with some different assumptions, notably RCEA staff included customers with less than 12 months of interval data and arrived at $28,687. In both analyses, customers who would receive bill protection are a small fraction of residential customers to be transitioned.

The larger financial impact is likely to be the loss of revenue due to the structural benefit to Humboldt County customers. Without changing behavior PG&E estimates that the vast majority of local customers will see a benefit on their electricity bill. PG&E forecasts that RCEA's revenue will decrease by $790,820 per year due to the TOU transition. RCEA's staff analysis estimates a more conservative $964,476 revenue loss per year. Both PG&E's and RCEA staff's analyses assume 100% participation in this transition, which is unlikely. While all the revenue losses discussed here can also be considered customer savings, transmission and distribution charges from PG&E will affect customers' total bill impact. Staff is currently performing an analysis to determine how customers' bills will change with the TOU transition when looking at charges holistically.

One financial benefit of the TOU transition for RCEA is that due to the structure of the TOU rate it would shift when funds are collected and smooth out revenues throughout the year.

Another consideration is that non-residential customers who are on flat rates will be transitioned to TOU rates as well. However, this is a mandatory transition scheduled for the fourth quarter of 2020. This is not expected to have as much of a financial impact because the majority of non-residential customers are already on TOU rates. Staff will present a revenue impact analysis of this transition at the next Board meeting.

FUTURE DECISIONS

The CPUC and PG&E have asked the CCAs to make three decisions by October 2019:
1) Will RCEA transition its residential E-1 customers to the TOU rate during an agreed upon period?
2) Will RCEA offer bill protection to its customers, in a manner similar to PG&E's bill protection?
3) Will RCEA agree to not introduce rates that deviate from PG&E's in structure for residential customers through the transition period?

This agenda item is intended to be informational only. The Board will be asked to make these decisions at the next Board meeting.

RECOMMENDED ACTIONS

No action required at present. Information only.

ATTACHEMENT

1. PG&E Presentation on Time-of-Use Transition

PG&E/RCEA CCA Time-of-Use Rate Transition

April 2019

Together, Building
a Better California

Residential TOU Transition Origination

Why TOU Transition?

In an effort to make rates more understandable to customers, more cost-based and to encourage customers to shift usage to times of day that support a cleaner more reliable grid, the CPUC directed Pacific Gas & Electric Company, Southern California Edison & San Diego Gas & Electric to begin Residential Rate Reform.

- **Simplifying the rate structure**
- **Optimization of new energy efficiency technologies**
- **Promotion of Energy Conservation**
- **More Accurate Cost Allocation**

Source: CPUC RRR TOU Decision 17-12-023:
http://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M201/K231/201231862.PDF (Pg 10)

State Campaign – Keep it Golden

- *"A statewide campaign that will be high-level, emotion-based, and provide Californians with the context for the changing rate structure and a vision to rally around."*

- Provides a **neutral** explanation of TOU

Source: CPUC RRR TOU Decision 17-12-023:
http://docs.cpuc.ca.gov/PublishedDocs/Published/G000/M201/K231/201231862.PDF (Pg 10)

Residential Time-of-Use Transition Phase I

Background:

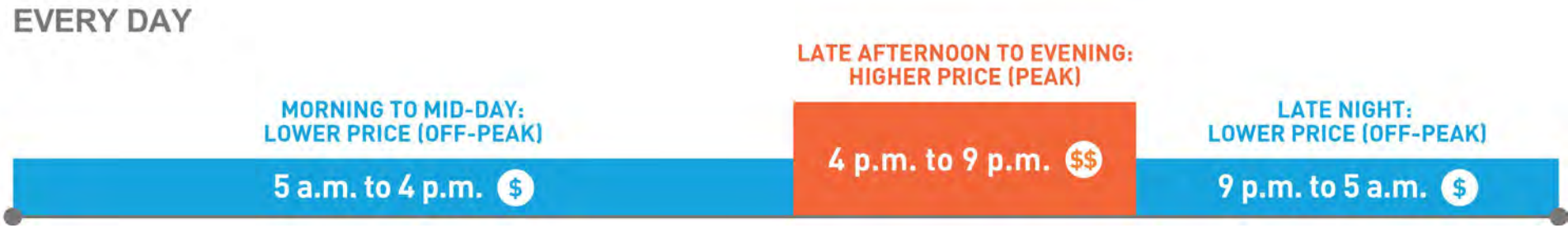
- In **April 2018**, PG&E transitioned **~114k** customers to the new TOU Rate (Everyday, 4-9pm)
- Customers received a combination of 90, 60 and 30 Day communications
- 4 CCAs participated: MCE, Sonoma Clean Power, Silicon Valley Clean Energy & Peninsula Clean Energy
- RCEA voluntary enrollments

Highlights:

- Based on qualitative and quantitative studies, customer awareness has been high (**68%** aware they were part of a transition)
- Preliminary Load Impacts show an overall reduction of **4.2%** of total peak load per customer per hour

CCA & bundled customer overall performance was similar

Residential TOU Transition Phase 1 (Pilot) Overview



Residential TOU Transition Phase 1 (Pilot) Targets

CCA Transition customers responded well to the transition from start through post summer months

- Satisfaction with rate plan remains stable at **6.5**/10
- Continued high levels of awareness and understanding
- **53%** of CCA customers say they are taking actions to shift or reduce usage
- Some slight differences in actions taken to shift/reduce – likely due to climate zones

Residential TOU Full Transition Overview

- Beginning in **October 2020, PG&E will begin** transitioning all **eligible** E1 Tiered rate plan customers to *"Time-of-Use Peak Pricing 4pm-9pm Every Day" (ETOU-C)* rate plan.

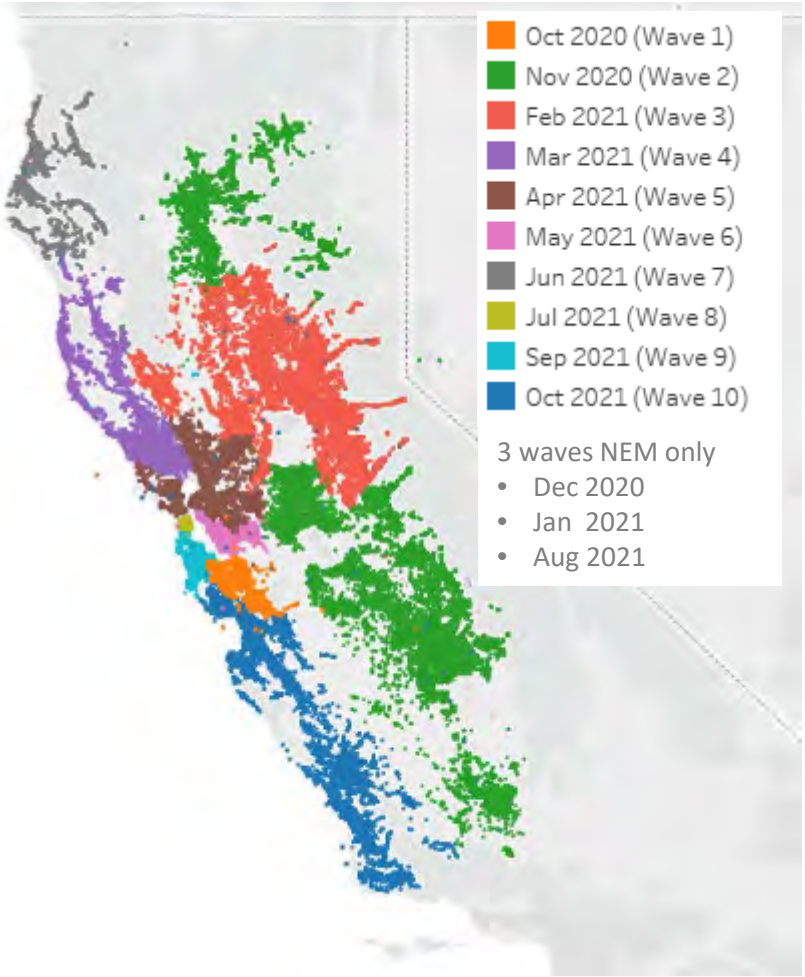
- ETOU-C rate plan will become the **default rate plan** around April 2020.

- Customers will have the **ability to elect** to remain on their current rate plan or choose another rate plan.

- Up to **12 months of bill protection** will be provided to all PG&E charges for transitioned customers.

- Customers will be provided with a **minimum of 2 notifications prior to the transition** including: information on the New Time-of-Use rate plan, how to remain on their current rate and bill protection.

Residential TOU Full Rollout Plan (13 month rollout)

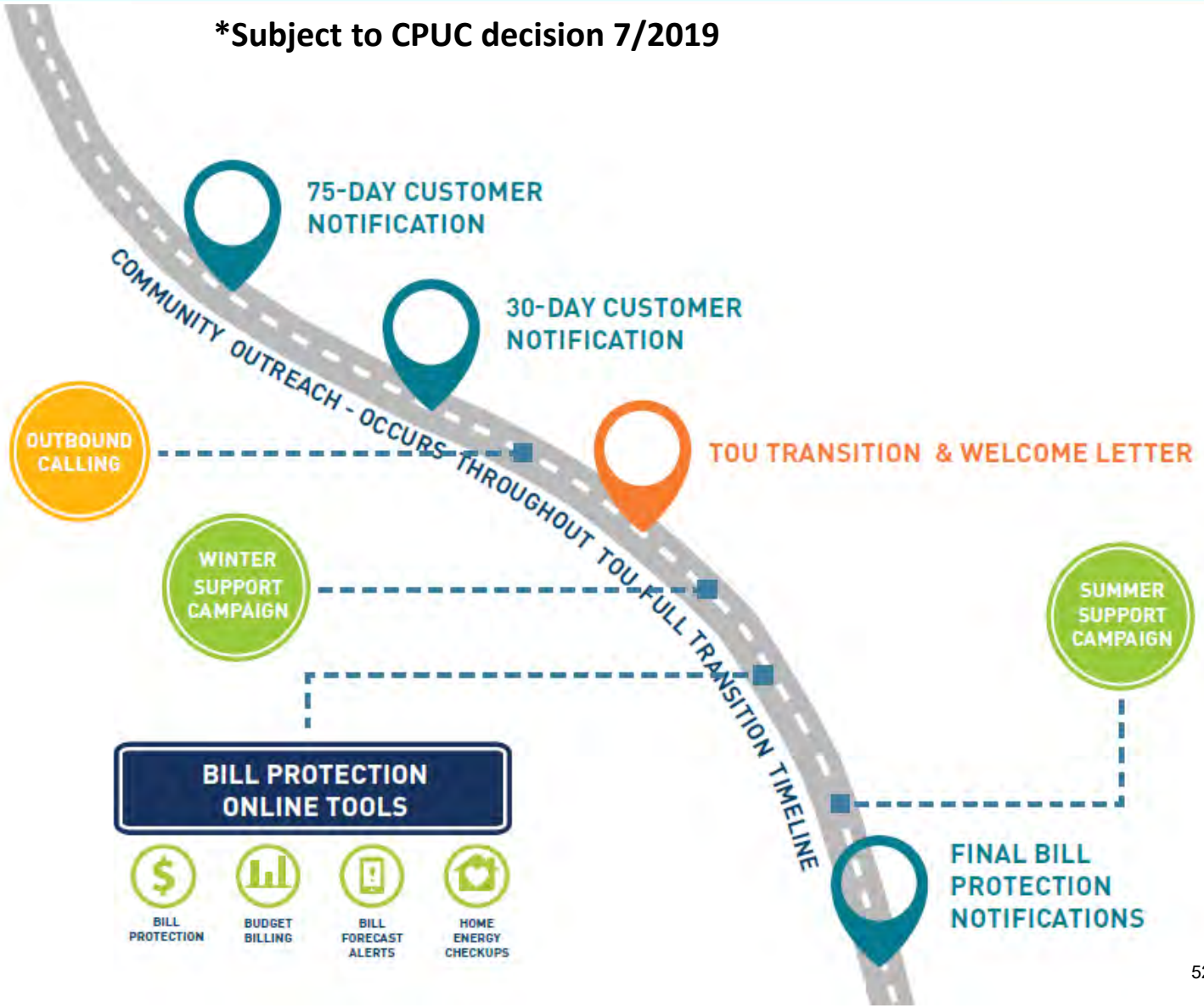


Counties	Service Provider Territory Included	Totals
Oct 2020 (Wave 1)		**394,836**
Santa Clara	San Jose Clean Energy (SJCE)	227,998
	Silicon Valley Clean Energy (SVCE)	166,838
Nov 2020 (Wave 2)		**200,876**
Fresno, San Joaquin, Kern, Tuolumne, Shasta, Madera, Merced, Tehama, Plumas, Stanislaus, Mariposa, Kings, Tulare, Lassen	PG&E Bundled	200,876
Feb 2021 (Wave 3)		**181,459**
Placer, El Dorado, Yolo, Butte, Nevada, Calaveras, Lake, Amador, Sutter, Yuba, Glenn, Colusa, Sacramento, Sierra, Alpine	PG&E Bundled	118,183
	Pioneer Community Energy (PIO)	43,125
	Valley Clean Energy (VCE)	20,151
Mar 2021 (Wave 4)		**136,031**
Sonoma, Mendocino	Sonoma Clean Power	136,031
Apr 2021 (Wave 5)		**409,382**
Contra Costa, Solano, Marin, Napa	MCE	307,341
	PG&E Bundled	102,041
May 2021 (Wave 6)		**398,624**
Alameda	East Bay Community Energy (EBCE)	369,913
	PG&E Bundled	28,711
Jun 2021 (Wave 7)		**38,695**
Humboldt, Trinity, Siskiyou	Redwood Coast Energy Authority (RCEA)	37,842
	PG&E Bundled	853
Jul 2021 (Wave 8)		**261,529**
San Francisco	CleanPowerSF (CPSF)	261,529
Sept 2021 (Wave 9)		**200,182**
San Mateo	Peninsula Clean Energy (PCE)	200,182
Oct 2021 (Wave 10)		**262,936**
Monterey, Santa Cruz, San Luis Obispo, Santa Barbara, San Benito	Monterey Bay Community Power (MBCP)	169,088
	PG&E Bundled	91,578
	King City Community Power	2,270

Note: Customer counts are approximate and reflect PG&E's proposed exclusion criteria. Also, assuming NEM customers transition on their true-up date, each wave would have an additional ~10K NEM customers. This table assumes all customers within each CCA territory are enrolled with the CCA service provider.

Residential Draft Transition Notifications Roadmap

***Subject to CPUC decision 7/2019**

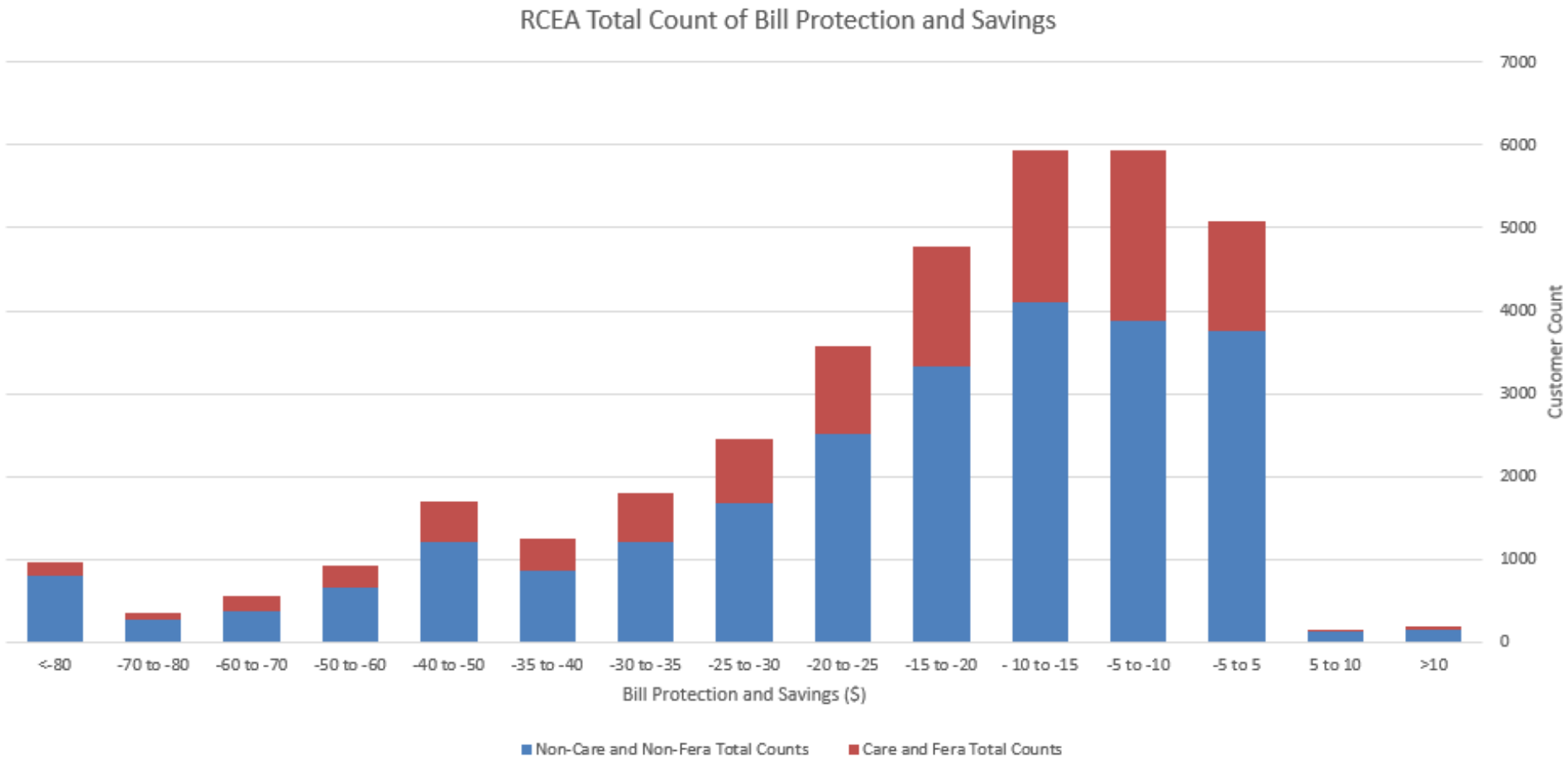


Residential TOU Full Transition Overview – Generation only Bill Protection Analysis

	TOU MORE expensive than Tiered Rate	TOU LESS expensive than Tiered Rate
Estimated Annual Generation Bill Difference ($)	$6,795	$790,820
Number of Customers Impacted	1,100	34,426
Annual Bill Impact/Customer	$6.18	$22.97

***Estimates are calculated with PG&E generation pricing**

Residential TOU Full Transition Overview – Generation only Bill Protection Analysis



Overall: PG&E & CCA customers in RCEA territory are structural benefiters

- 31% neutral (11,196)
- .01% non-benefiters (185)
- 68% benefiters (24,299)

Residential TOU Transition Cost Recovery

Traditional Approach:

- TOU rates designed to be **revenue-neutral**
  - assume all customer remain on the rate
  - collect the same revenue as collected with tiered rates
- Resulting **revenue shortfall** due to self-selection
  - some non-benefiters do not remain on the rate
  - can be tracked in a balancing account
- **Rates can be "trued-up"**
  - Adjust rate after first year to collect the first-year shortfall

Alternative Approach:

- Estimate revenue shortfall **in advance & increase rates** via rate adders
  - Estimating revenue shortfall is **very uncertain**
  - Rate adders may be set too high or too low requiring a **subsequent "true-up"**

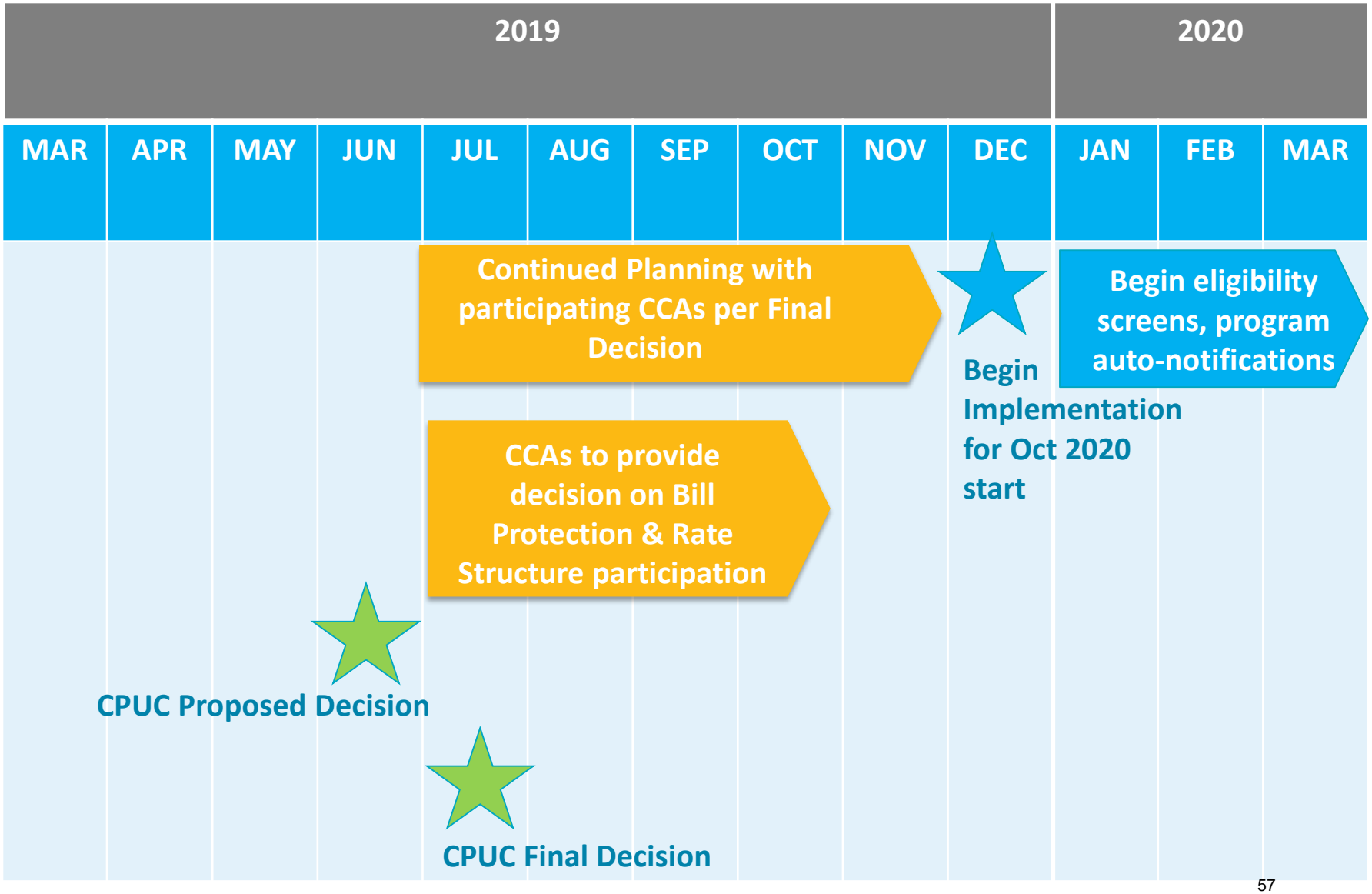
TOU Residential Full Transition – Environmental Benefits

Greenhouse Gases (GHG):

- Estimated savings of 5,000-10,000 tons of CO_2 per year across PG&E territory due to load shifting resulting from the new TOU rate plan
  - Range dependent on number of CCAs following PG&E 4pm-9pm peak period
  - Equivalent to removing about 1 – 2 thousand gas-powered cars from the road
- Greater benefits expected with peak period conservation (versus load shifting) and/or a higher volume of renewables

GHG estimate based on calculations performed in 2018 according to the methodology agreed upon by the CPUC, PG&E, and the other CA IOUs. GHG equivalency based on https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator.

CCA/PG&E Joint Planning Timeline



TOU Residential Full Transition – Why Participate?

- **Support Statewide policy**
  - Align on policies for a cleaner, more reliable energy grid
  - Contribute to greenhouse gas reductions

- **Enhance Customer Experience**
  - Streamlined and consistent experience for RCEA's and PG&E's mutual customers
  - Reduced customer confusion

State Campaign - Keep it Golden

Appendix

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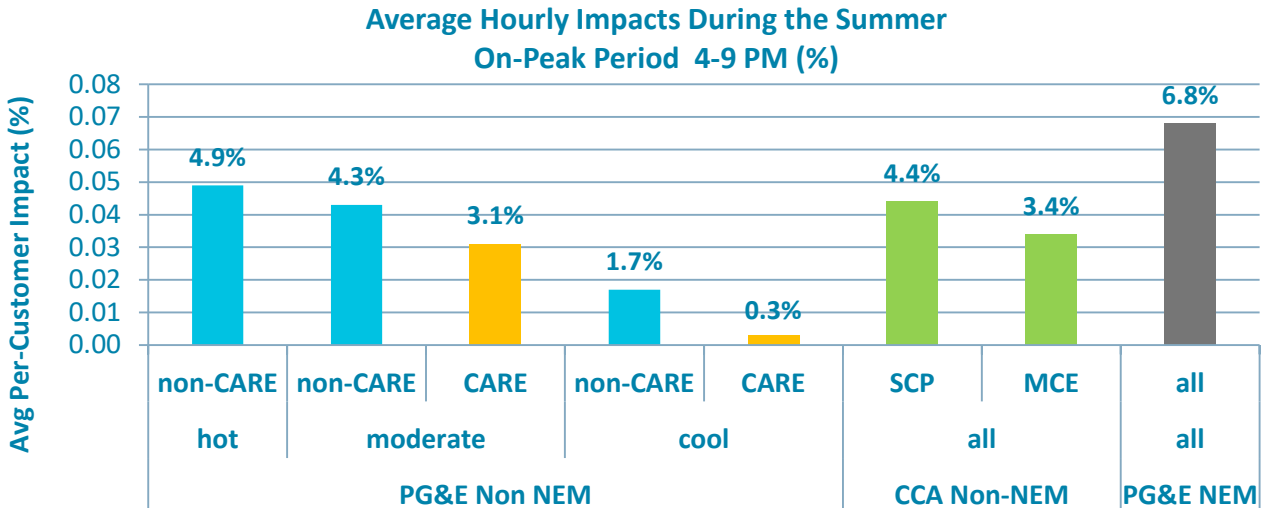
TOU Transition Phase 1 (Pilot) Overview

Load Shifts & Conservation:

- PG&E preliminary results: overall energy conservation and some load shifting
- Summer load reductions declined or remained the same
  - SCE & SDG&E showed comparable results
- Transitioned TOU rate customers averaged 0.046 kWh daily peak period reduction per customer per hour
  - 4.2% reduction - total peak load per customer per hour
  - Impacts vary across climate zones, customer segments, day types
    - Hot climate customers have highest peak load reduction; 4.9%



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Residential TOU Transition results are encouraging

Overall

- Awareness metrics increased from baseline
  - 84% aware of TOU rate plans …. Up from 60%
  - 59% aware on a TOU rate …. Up from 10%
- Customers exceeding awareness and understanding targets set by the CPUC
  - Aware of rate choices and TOU rates
  - Understand benefits of lowering/shifting electricity use
- 78% understand their bill is based on how much energy they use and when they use it
- PG&E's results are comparable or higher than other California IOUs

Residential TOU Transition Phase 1 (Pilot) Targets

Transition customers continue to exceed goal metric target levels

		Wave 2	Baseline	Goal
1	Rate plans are available that give you more control over your bill	46%	-	-
2	Customers know where to go to get info about how to manage their electricity use	52%	52%	66%
3	Customers understand how energy use can impact bills	▲ 6.7	5.1	6.5
4/5	Customers understand the benefits of lowering/shifting their electricity use	▲ 6.9	6.4	7.2
6	Customers are aware that PG&E provides rebates, energy efficiency programs & tips	▲ 70%	64%	72%
7	Customers feel that they were provided useful information explaining their bills	▲ 7.5*	7.0	7.2
8	Customers are aware of TOU rates	▲ 81%	60%	68.8%
9	Customers are aware of rate choices	▲ 52%	35%	47.5%
10	Customers have an optimal experience (satisfaction with products and services)	7.6	7.5	7.3

▲ Significantly higher than baseline

* Wave 1, not asked in Wave 2

Residential TOU Transition Phase 1 (Pilot) Targets

Transition customers continue to have a good understanding of basic TOU rate details

- Baseline average 4.7

	Wave 2 Overall
Bill based on how much you use & time of day you use	7.8
Could pay more unless you adjust some electricity use	6.9
Can switch to another rate plan	6.6
How to manage bill using current rate plan	6.5
How bill will be impacted by TOU rate	6.5

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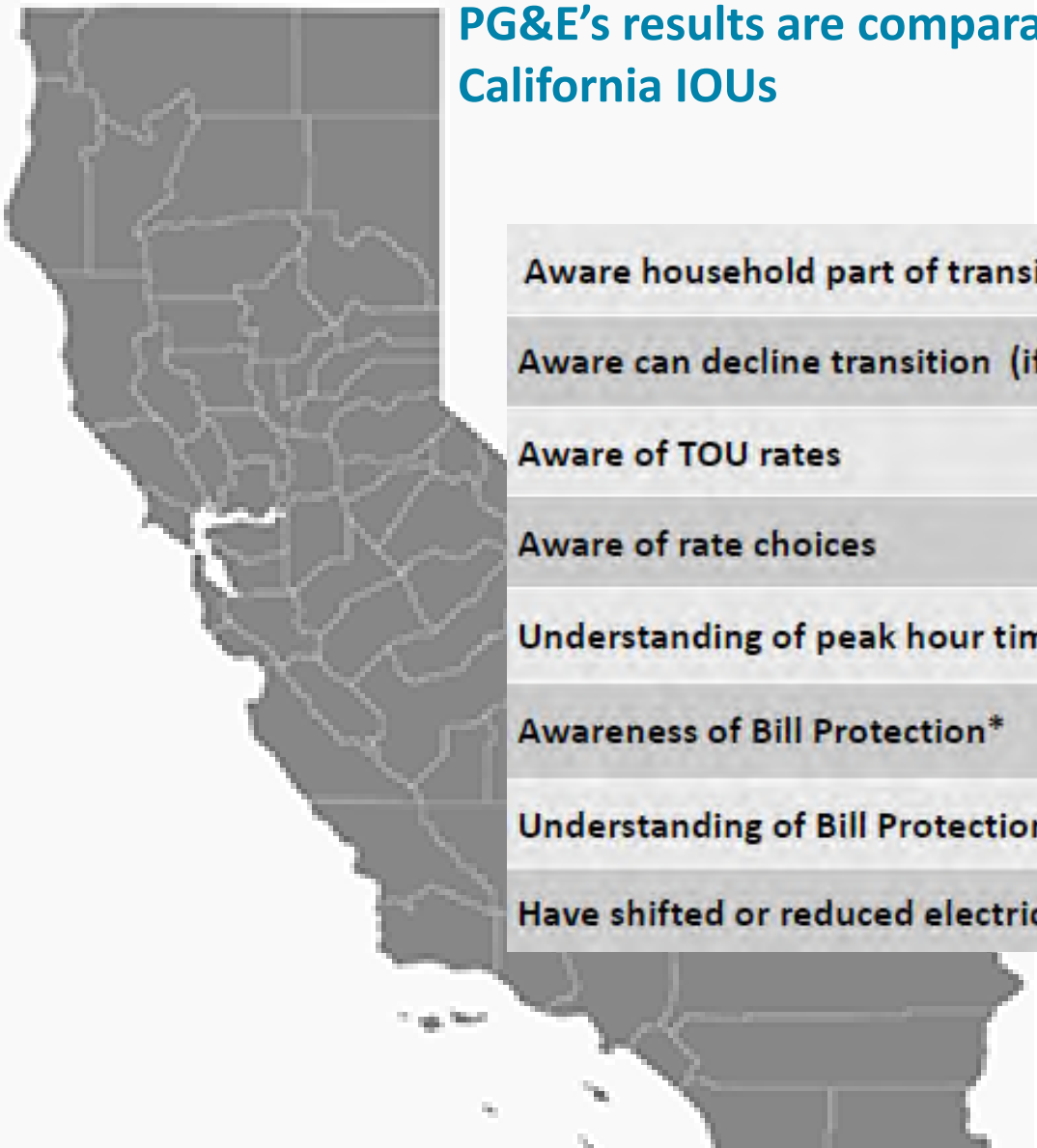
Residential TOU Transition Phase 1 (Pilot) Targets



PG&E's results are comparable or higher than other California IOUs

Wave 2	PG&E	SCE	SDG&E
Aware household part of transition	62%	48%	59%
Aware can decline transition (if aware)	64%	60%	69%
Aware of TOU rates	81%	73%	81%
Aware of rate choices	52%	48%	52%
Understanding of peak hour times	62-76%	41-61%	60-72%
Awareness of Bill Protection*	22%	17%	23%
Understanding of Bill Protection	28%	17%	23%
Have shifted or reduced electricity	47%	40%	50%

*SDG&E: 'No-risk pricing'

Residential TOU Full Transition – Guiding Principles

- Geographic rollout by **County**
  - Hottest areas well in advance of summer
  - Enables targeted media/community outreach
  - Except NEM: transition in true-up month
- Transition during months customers **do not experience their highest bills**

Months Acceptable for Transition by Baseline Territory

	Hot				Moderate			Cool		
	P	S	R	W	Q	X	Y	T	V	Z
Oct	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Nov	N	Y	Y	Y	N	N	Y	Y	Y	Y
Dec	N	Y	Y	Y	N	N	Y	Y	Y	Y
Jan	N	Y	Y	Y	N	N	Y	Y	Y	Y
Feb	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Mar	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Apr	Y	Y	Y	Y	N	Y	Y	Y	Y	Y
May	Y	N	N	N	N	Y	Y	Y	Y	Y
Jun	N	N	N	N	N	N	Y	Y	Y	Y
Jul	N	N	N	N	Y	N	Y	Y	Y	Y
Aug	N	N	N	N	Y	N	Y	Y	Y	Y
Sep	Y	N	N	N	Y	Y	Y	Y	Y	Y

Baseline Territories in PG&E Service Area