UNSOLICITED APPLICATION FOR AN OUTER CONTINENTAL SHELF RENEWABLE ENERGY COMMERCIAL LEASE UNDER 30 CFR 585.230

Redwood Coast Offshore Wind Project

APPENDICES

Submitted to:
U.S. Department of the Interior
Bureau of Ocean Energy Management (BOEM)
Pacific Region
770 Paseo Camarillo, Second Floor
Camarillo, California 93010

Submitted by:
Redwood Coast Energy Authority (RCEA)
633 3rd Street
Eureka, California 95501

September 2018

Public Version

APPENDIX A: DOCUMENTATION DESCRIBING APPLICANT'S LEGAL QUALIFICATIONS

Copies of legal qualification documents are included in the following pages.

REDWOOD COAST ENERGY AUTHORITY
(Applicant and Project Partner)

AMENDED AND RESTATED
JOINT POWERS AGREEMENT OF THE
REDWOOD COAST ENERGY AUTHORITY

This Amended and Restated Joint Powers Agreement of the Redwood Coast Energy Authority is made and entered into pursuant to the provisions of California Government Code Section 6500 et seq., and supersedes the original Joint Powers Agreement effective April 22, 2003. This Amended and Restated Joint Powers Agreement ("Agreement") is effective as of December 15, 2015.

RECITALS

A. The Redwood Coast Energy Authority ("RCEA" or "Authority") was formed in 2003 by the County of Humboldt and the Cities of Arcata, Blue Lake, Eureka, Ferndale, Fortuna, Rio Dell, and Trinidad, and the special district of the Humboldt Bay Municipal Water District (each a "Member," collectively, the "Members")to undertake a pilot project created and funded by the California Public Utilities Commission ("CPUC") and the Local Government Commission ("LGC"), a California nonprofit membership organization, designed to encourage the formation of regional organizations to promote energy efficiency, conservation and increased local self-reliance.

B. Through its activities since formation, the RCEA has established Humboldt County and its communities as leaders in reducing energy demand, increasing energy efficiency, and advancing the use of clean, efficient and renewable local resources to increase regional self-reliance.

C. The RCEA Members desire to further the RCEA goals by implementing and administering a common Community Choice Aggregation program pursuant to California Public Utilities Code Sections 331.1 and 366.2 an electric service enterprise which shall be available to those Member cities and the Counties that elect to become program participants.

NOW THEREFORE, based on the mutual covenants, conditions and terms recited herein, which are made a material part of this agreement, the undersigned public agencies, collectively referred to herein as the "Members," enter into this Amended and Restated Joint Powers Agreement and agree as follows:

AGREEMENT

ARTICLE 1 – AUTHORITY FORMATION

1.1 Formation of Humboldt County Regional Energy Alliance. Pursuant to the Act, the Members hereby create a joint powers agency to be known as the Redwood Coast Energy Authority ("RCEA").

1.2 Separate Public Entity. The RCEA is a public entity separate from the Members within the meaning of Government Code Section 6507.

1.3 Parties to this Agreement. For purposes of this Agreement, each Member intends to, and does, contract with every other Member which is a signatory to this Agreement and, in addition, with every public agency that becomes a Member under Section 4.1. The withdrawal of any Member from this Agreement does not affect its validity or enforceability as to the remaining Members, nor any remaining Member's intent to contract with any of the others.

1.4 Membership. In addition to the original forming Members, any public agency as defined in Government Code Section 6500 which is located wholly or partly within the boundaries of Humboldt County or any adjacent county is eligible for membership in the RCEA. Upon approval by a simple majority vote of the full Board, any such public agency may become a Member if:

(a) its governing body duly approves membership and agrees to all of the terms of this Joint Powers Agreement, and

(b) an authorized officer of such agency executes this Agreement on its behalf.

ARTICLE 2 – PURPOSES AND POWERS

2.1 Purpose. The purpose of the RCEA is to develop and implement sustainable energy initiatives that reduce energy demand, increase energy efficiency, and advance the use of clean, efficient and renewable resources available in the region for the benefit of the Member agencies and their constituents. To further that purpose, the RCEA will work toward the following goals:

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

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

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

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

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

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

g. To develop regional capabilities to respond to energy emergencies and short-term disruptions in energy supply, infrastructure, or markets that could adversely affect Humboldt residents and businesses.

2.2 Powers. The RCEA is authorized, in its own name, to do all acts necessary to fulfill the purposes of this Agreement including, without limitation, each of the following:

a. receive grants, contributions and donations of property, funds, services and other forms of assistance from any public or private source;

b. make and enter into contracts;

c. incur debts, liabilities and obligations; provided, that no debt, liability or obligation of the RCEA is a debt, liability or obligation of any Member except as separately agreed to by such Member;

d. acquire, hold, construct, manage, maintain, sell or otherwise dispose of real and personal property by appropriate means, excepting therefrom the acquisition of real property through the exercise of eminent domain;

e. sue and be sued in its own name;

f. employ agents and employees;

g. lease real or personal property as lessee and as lessor;

h. receive, collect, invest and disburse moneys;

i. issue revenue bonds or other forms of indebtedness, as provided by law;

j. adopt ordinances;

k. adopt, implement, manage and terminate a Community Choice Aggregation program in accordance with Public Utilities Code Section 366.2, et seq ("CCA Program"); services

l. assign, delegate or contract with a Member or third party to administer or execute this Agreement or to perform any of the functions of the Board, as permitted by law; and

m. exercise all other powers necessary and proper to carry out the provisions of this Agreement.

These powers shall be exercised subject only to the limitations set forth in this Agreement, any bylaws, applicable law (including local zoning, building, or other ordinances or regulations arising from the jurisdiction in which the RCEA is engaged in any specific activity), and any restrictions upon the manner of exercising such powers imposed by law upon the County of Humboldt in the exercise of similar powers.

ARTICLE 3 – INTERNAL GOVERNANCE

3.1 Board of Directors. There is hereby created a Board of Directors ("Board"), which shall serve as the governing body of the RCEA, and shall exercise or oversee the exercise of all powers and authority on behalf of the RCEA as set forth herein. Each Member shall designate one person as a member of the Board ("Director") and one person as an alternate member of the Board ("Alternate Director"). The Alternate Director may serve and vote in place of the appointing Member's Director who is absent or who disqualifies him/herself from participating in a meeting of the Board. Directors and Alternates shall serve at the pleasure of the appointing Member and may be removed at any time, without cause, at the sole discretion of that Member. They shall not be compensated for their service, but may be reimbursed for expenses reasonably incurred in the performance of their Board functions, and appropriately documented. Each Director and Alternate Director may be an elected official of the governing body of the Member that he or she represents or a non-elected representative. Each Director and Alternate Director shall serve on the Board from the first meeting of the Board after appointment by the Member, until his or her successor is selected by that Member.

3.2 Procedural and Operational Rules. The Board may adopt bylaws or resolutions to govern its meetings and operations, or may separately adopt a statement of operating policies, provided that such bylaws, resolutions or statements are consistent with this Agreement.

3.3 Principal Office. The principal office of the RCEA shall be established by the Board. The Board may change the location of the principal office upon giving at least 15 days written notice to each Member.

3.4 Quorum and Voting. A majority of the Board shall constitute a quorum for the transaction of business. The Board shall act by motion, resolution or ordinance. Except as otherwise expressly provided by this Agreement or applicable law, all motions, resolutions and ordinances of the Board, and all actions required or permitted to be taken by the Members acting through the Board, shall be by a majority vote of the quorum.

3.5 Board Chair and Vice Chair.

a. The Board shall appoint a Chair and a Vice-Chair.

(1) The Chair shall be the chairperson of the Board and shall conduct all Board meetings and perform such other duties and functions required of such person by this Agreement or the Board.

(2) The Vice-Chair shall serve in the Chair's absence and perform such duties as required by this Agreement, the Board, or the Chair.

(3) Only Members of the Board are eligible to hold the positions of Chair and Vice-Chair.

(4) The term of office for the Chair and Vice-Chair shall be one year, commencing on January 1 of each year (excepting the initial year). The initial Chair and Vice- Chair shall be entitled to serve one full term of office in addition to any partial initial term.

b. If a vacancy occurs in the position of Chair or Vice-Chair, the Board shall forthwith fill the vacancy for the duration of the unexpired term.

3.6 Treasurer and Auditor. The Board shall designate qualified persons (as described in Government Code §6505.5 and §6505.6) to serve as Treasurer and as Auditor of the RCEA who need not be Members, and may designate a single qualified person to hold both offices. The Treasurer shall have charge of depositing and maintaining custody of all funds held by the RCEA, and shall maintain strict accountability for all funds and reports of all receipts and disbursements. In addition, the Treasurer and the Auditor shall perform all other duties that may be imposed by applicable law (including Government Code Sections 6505 and 6505.5), this Agreement, or any rules of the Board. The compensation, if any, of the person or persons holding these offices shall be set by the Board. Alternatively, upon consent as needed of the governing body of any Member entity, the Board may designate the Treasurer of such Member as the depository of RCEA funds, and responsible for the discharge of all the duties set forth in Government Code section 6505.5, including the function of auditor, and the maintenance of strict accountability of RCEA funds.

3.7 Other Officers and Employees. The Board may designate such other officers, and may hire employees or independent contractors as appropriate and necessary to conduct the RCEA's affairs.

3.8 Meetings of the Board. The Board shall establish in the bylaws or by resolution the dates, times and places of its regular meetings, which shall be held not less than four times during each calendar year during the term of this Agreement. The Board's meetings shall be conducted in accordance with the Ralph M. Brown Act (Government Code Sections 54950 *et seq.*).

3.9 Committees. The Board may create an advisory committee composed of public and private stakeholders such as but not limited to residential and non-residential energy users, local governments, educational institutions, environmental organizations, and the private sector. The Board may also create an executive committee consisting of the managers of the Member entities, and may create any such other committee as it deems appropriate.

3.10 Appointment of Administering Entity. Pursuant to Government Code Section 6506, the Board may appoint an agency or entity, including one or more Members upon consent of the governing body of such Member, a commission or board constituted pursuant to this Agreement, or a person, firm or corporation, including a nonprofit corporation, which it may designate, to administer or execute this Agreement, or any portions of this Agreement.

3.11 Budget. The RCEA shall operate on a fiscal year commencing July 1 of each year. The Board shall adopt by majority vote of the full Board an annual budget for each fiscal year at or before its last regular meeting before June 30 of each year. All costs incurred by the RCEA that are directly or indirectly attributable to the provision of electric, conservation, efficiency, incentives, financing, or other services

provided under the CCA Program, including but not limited to the establishment and maintenance of various reserves and performance funds and administrative, accounting, legal, consulting, and other similar costs, shall be recovered through charges to CCA customers receiving such electric services, or from revenues from grants or other third-party sources.

ARTICLE 4 – COMMUNITY CHOICE AGGREGATION

4.1 Enabling Ordinances.

(a) RCEA. The RCEA is hereby authorized to adopt an ordinance to implement the CCA Program in accordance with Public Utilities Code Section 366.2(c)(12), or successor provision.

(b) Member Participants. Each Member choosing to participate in the CCA Program shall adopt an ordinance in accordance with Public Utilities Code Section 366.2(c)(12)(B), or successor provision, for the purpose of specifying that the Member intends to implement a CCA Program by and through its participation in the RCEA. Each Member having duly adopted a CCA participation ordinance shall herein be referred to as a "CCA Participant".

(c) Effect. The CCA Participants intend for this Agreement to be used as a contractual mechanism by which the CCA Participants are authorized to participate in the CCA Program. The CCA Participants intend that other agreements shall define the terms and conditions associated with the implementation of the CCA Program.

4.2 Implementation Plan. The Authority shall cause to be prepared an Implementation Plan meeting the requirements of Public Utilities Code Section 366.2 and any applicable Public Utilities Commission regulations as soon as reasonably practicable. The Implementation Plan shall not be filed with the Public Utilities Commission until it is approved by the Board in the manner provided by Section 4.4.

4.3 Termination of CCA Program. Nothing contained in this Article or this Agreement shall be construed to limit the discretion of the RCEA to terminate the implementation or operation of the CCA Program at any time in accordance with any applicable requirements of state law

4.4 Board Voting Related to the CCA Program.

(a) Eligibility to Vote. Only Directors from Participating Members shall be eligible to vote on matters specifically related to the CCA Program.

(b) Participating Member Vote. For purposes of the CCA Program, each Participating Member shall have a total vote comprised one third of a fixed Pro Rata Voting Share based on the total number of Participating Members, and two thirds of the proportional share of Electric Customers in the Participating Member's jurisdiction.

(c) Computation. The Participating Member Vote shall be computed based on the following formulas:

i. *Pro Rata Voting Share*. Each Director shall have an equal voting share determined by the following formula: ([1/total number of Directors] multiplied by 1/3); and

ii. *Customer Base Voting Share*. Each Director shall have an additional voting share determined by the following formula: ([Number of Electric Customers in Director's jurisdiction/Total Number of Electric Customers in CCA] multiplied by 2/3), where "Electric Customers" means the total number of electricity customer accounts for all rate schedules as of December 31.

iii. *Total Vote*. The total vote for each Participating Member shall be the sum of its Pro Rata Voting Share plus its Customer Base Voting Share rounded to the nearest whole number, excepting that any sum greater than zero and less than 1.0 shall be rounded to 1.0. The initial Pro Rata Voting Shares, Customer Base Voting Shares, and total votes are set forth in Exhibit A, attached hereto and incorporated herein. Beginning in 2017, the Board's Executive Director shall update Exhibit A at least every two years no later than March 1 to reflect changes in the number of Electric Customers and Participating Members, and such update shall not constitute an amendment to this Agreement. Any updated Exhibit A shall be provided to the Board at the regular meeting immediately following the update, and to the executive officers of the Participating Members within 30 days after the update.

4.5 Quorum, Approval Requirements Related to CCA Program. A majority of the Participating Members must be present and a majority of the CCA total vote must be represented by the present Participating Members to establish a quorum for the transaction of business on any matter specifically related to the CCA Program. Except as otherwise provided in this Agreement, the action of the Board for any matter specifically related to the CCA Program shall require the affirmative vote of a majority of the Participating Members present at the meeting where such vote is taken. The affirmative vote shall be established by adding the total votes of the present Participating Members as set out in Section 4.4, above.

ARTICLE 5 – MISCELLANEOUS PROVISIONS

5.1 Audit. The accounts and records of the RCEA shall be audited as provided in Government Code Sections 6505 and 6505.5.

5.2 Limitation on Liability of Members for Debts and Obligations of RCEA. As provided for by Government Code section 6508.1, the debts, liabilities, and obligations of the RCEA do not constitute debts, liabilities, or obligations of any party to this Agreement. A Member may separately contract for, or assume responsibility for, specific debts, liabilities, or obligations of the RCEA.

5.3 Indemnity. The RCEA shall indemnify, defend and hold harmless the Members, their officers and employees, from and against all liability, loss, damage, expense, and costs (including without limitation costs and fees of litigation), collectively referred to as 'injury', of every nature arising out of the RCEA activities described herein, or its failure to comply with any of its obligations contained herein, except where such injury is caused by the sole negligence or willful misconduct of a Member. Any defense of claims, as well as the cost of any judgments imposed for claims resulting from actions by the RCEA or any of the officers, agents, employees, or contractors of the RCEA in relation to this Agreement shall be the sole responsibility of the RCEA. To the extent that Members are also held jointly and severally liable for such amounts by Government Code section 895.2, if a Member provides for such defense of itself or the RCEA, or pays all or a part of such judgment, the member shall be entitled to reimbursement in full from the RCEA, provided the Member obtains prior approval from the RCEA.

5.4 Insurance. The RCEA will obtain at its expense, and maintain during the term of this Agreement, insurance against claims for injury to persons or damage to property or the environment which may arise from RCEA operations, with the scopes, coverages, deductibles and other provisions described below.

a. Minimum Scope

(1) Insurance Services Office Commercial General Liability coverage ("occurrence" form CG 0001).

(2) Workers' Compensation insurance as required by the State of California and Employer's Liability Insurance.

(3) Property insurance against all risks of loss to RCEA property, as determined by law or by the RCEA.

b. Minimum Coverage

(1) General Liability: $ 5,000,000 per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or another form with a general aggregate limit is used, the general aggregate limit shall be twice the required occurrence limit.

(2) Employer's Liability: $ 1,000,000 per accident for bodily injury or disease.

(3) Property Insurance: Full replacement cost with no coinsurance penalty provision.

(4) Workers' Compensation: Workers' Compensation to statutory limits covering all employees, paid or unpaid.

(5) Errors and omissions insurance to cover any and all instances of misfeasance and/or nonfeasance in the scope of duties.

c. Deductibles and Self-Insured Retentions.

Any deductibles or self-insured retentions must be declared to and approved by the Members.

d. Other Insurance Provisions.

The general liability policy is to contain, or be endorsed to contain, the following provisions:

(1) The Members, their officers, officials, employees, and volunteers, are to be covered as insured with respect to liability arising out of RCEA operations.

(2) The RCEA's insurance coverage shall be primary insurance as respects the Members, their officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the Members, their officers, officials, employees or volunteers shall be excess of the RCEA's insurance and shall not contribute with it.

(3) Each insurance policy required by this clause shall be endorsed to state that coverage shall not be canceled, except after thirty (30) days prior written notice by certified mail, return receipt requested, has been given to the Members.

Workers' Compensation Insurance Endorsement:

The workers' compensation policy shall be endorsed to contain a waiver of subrogation clause which states the following: "This insurance company agrees to waive all rights of subrogation against the Members, their officers, officials, employees and volunteers for losses paid under the terms of this policy, which arise from RCEA operation by the named insured for the Members."

Acceptability of Insurers:

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A:VII.

5.5 Amendments. This Agreement may be amended only by a written instrument, approved by an affirmative vote of the governing bodies of two thirds (2/3) of the Members, and meeting any requirements imposed by the terms or conditions of any revenue bonds issued by the RCEA and related documentation including, without limitation, indentures, trust agreements, resolutions and letter of credit agreements. Notwithstanding the foregoing, no amendment shall require any Member to contribute any funds to, or become directly or contingently liable for any debts, liabilities or obligations of, the RCEA, without that Member's written consent, signed by its duly authorized representative.

5.6 Withdrawal. Members may withdraw at any time by providing written notice from the governing body of such Member to the Board; provided, that no Member may withdraw if withdrawal would adversely affect a bond or other indebtedness issued by the RCEA, except upon a two-thirds (2/3) vote of the full Board. Withdrawal shall be effective upon receipt by the Board of said notice or upon said vote of the Board if required. The withdrawing Member shall continue to be financially responsible for its share of financial obligations and liabilities incurred prior to the effective date of withdrawal. Upon such withdrawal, no withdrawing Member shall be entitled to any distribution or withdrawal of property or funds except as may be agreed to by the Board; however such Member may be entitled to participate in a pro-rated return of surplus money and other surplus personal property upon the dissolution of the RCEA based on factors as determined by the Board such as but not limited to the Member's length of time of participation with and contribution to the RCEA.

5.7 Termination and Distribution.

a. This Agreement continues until terminated by the written consent of a simple majority of the full Board; provided that:

   (1) this Agreement cannot be terminated until such time as all principal of and interest on any bonds and other forms of indebtedness that the RCEA may issue are paid in full; and

   (2) this Agreement and the RCEA continue to exist following termination for the purpose of disposing of all claims, distributing assets, and all other functions necessary to conclude the obligations and affairs of the RCEA.

b. After completion of the RCEA's purposes, any surplus money on deposit in any fund or account of the RCEA will be disposed of as required by law. The Board is vested with all powers of the RCEA for the purpose of concluding and dissolving its business affairs.

5.8 Nuclear Free Certification. The RCEA and its Members certify by the authorized signatures below that the RCEA is not a nuclear weapons contractor, and 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. The RCEA shall notify Humboldt County immediately if it becomes a nuclear weapons contractor, or engages in any of the activities listed above. In such event, or if it determines that the foregoing certification is false, and notwithstanding any other provision of this Agreement, the County may immediately terminate its participation and withdraw from this Agreement.

5.9 Notices. All notices which any Member or the RCEA may wish to give in connection with this Agreement shall be in writing and shall be served by personal delivery during usual business hours at the principal office of the Member or the RCEA, to an officer or person apparently in charge of that office, or

by depositing the same in the United States mail, postage prepaid, and addressed to the Member or the RCEA at its principal office, or to such other address as the RCEA or Member may designate from time to time by written notice given to the other Members in the manner specified in this section. Service of notice shall be deemed complete on the day of service by personal delivery (but 24 hours after such delivery in the case of notices of special meetings of the Board) or three (3) days after mailing if deposited in the United States mail. Until changed by written notice to the RCEA and the Members, notice shall be delivered as follows:

COUNTY OF HUMBOLDT:	County Administrative Officer 825 Fifth Street Eureka, CA 95501
CITY OF ARCATA:	Arcata City Manager 736 F Street Arcata, CA 95521
CITY OF BLUE LAKE:	Blue Lake City Manager 111 Greenwood Blue Lake, CA 95521
CITY OF EUREKA:	Eureka City Manager 531 K Street Eureka, CA 95501
CITY OF FERNDALE:	Ferndale City Manager P.O. Box 1095 Ferndale, CA 95536
CITY OF FORTUNA:	Fortuna City Manager 621 11th Street Fortuna, CA 95540
CITY OF RIO DELL:	Rio Dell City Manager 675 Wildwood Avenue Rio Dell, CA 95562
CITY OF TRINIDAD:	Trinidad City Manager P.O. Box 390 Trinidad, CA 95570
HUMBOLDT BAY MUNICIPAL WATER DISTRICT:	General Manager 828 7th Street Post Office Box 95 Eureka, CA 95502

5.10 <u>Prohibition Against Assignment</u>. No Member may assign any right, claim, or interest it may have under this Agreement. No creditor, assignee or third party beneficiary of a Member has a right, claim or title to any part, share, interest, fund or asset of the RCEA. However, nothing in this Agreement prevents the RCEA from assigning any interest or right it may have under the Agreement to a third party.

5.11 Severability. If a portion, term, condition or provision of this Agreement is determined by a court to be illegal or in conflict with any law of the State of California, or is otherwise rendered unenforceable or ineffectual, the validity of the remaining portions, terms, conditions and provisions is not affected.

5.12 Liability of RCEA. Subject to limitations contained in any trust agreement or other documents pursuant to which financing of the RCEA is implemented, RCEA funds may be used to defend, indemnify, and hold harmless the RCEA, any Member, any Director or Alternate Director, and any employee or officer of the RCEA for their actions taken within the scope of their duties while acting on behalf of the RCEA.

5.13 Arbitration. All disputes arising in connection with the interpretation or performance of this Agreement shall be resolved on an equitable basis by a single arbitrator under the commercial arbitration rules of the American Arbitration Association. The arbitrator's decision shall be final and binding on the RCEA, all Members and all former Members involved or affected by the dispute. The RCEA, any Member and any former Member that is party to the dispute may enforce any award, order or judgment of the arbitrator in any court of competent jurisdiction.

5.14 Waiver. Neither a waiver of any breach nor any failure to enforce any provision of this Agreement shall operate as a waiver of any other breach of such provision or any other provision.

5.15 Governing Law. This Agreement will be governed by and construed in accordance with the laws of the State of California.

5.16 Counterparts. This Agreement may be executed in several counterparts, each of which is an original and all of which constitutes but one and the same instrument.

5.17 Effective Date. In accordance with the Amendment provisions of Section 22 of the initial Joint Powers Agreement (renumbered Section 5.5 herein), this Restated and Amended Joint Powers Agreement shall become effective at the time two thirds (2/3) of the Members have approved this Amended and Restated Joint Powers Agreement.

IN WITNESS WHEREOF, this Amended and Restated Joint Powers Agreement has been duly considered by the governing bodies of all Members of the Redwood Coast Energy Authority, has been approved by at least two thirds (2/3) of said governing bodies of the Members, and is hereby entered into by the Members effective as of the date written above.

SIGNATURES APPEAR ON FOLLOWING PAGES
(Exhibit A follows signatures)

COUNTY OF HUMBOLDT

By: _____ Dated: 3-13-16

Mark Lovelace, Chair of the Board

ATTEST:

By: _____

Kathy Hayes, Clerk of the Board

CITY OF ARCATA

By: _____ Dated: 3-10-16

Paul Pitino, Mayor

ATTEST:

By _____

Bridget Dory, City Clerk

CITY OF BLUE LAKE

By: _____ Dated: 5.24.16

Michele McCall-Wallace, Mayor

ATTEST:

By: _____

April Sousa, City Clerk

CITY OF EUREKA

By: _____ Dated: 3.10.16

Frank Jager, Mayor

ATTEST:

By: _____

Pam Powell, City Clerk

CITY OF FERNDALE

By: _____ Dated: 3/24/16

Don Hindley, Mayor

ATTEST:

By: _____

Jennifer Church, City Clerk

CITY OF FORTUNA

By: Sue Long Dated: 3/21/16
Sue Long, Mayor

ATTEST:

By: Linda McGill
Linda McGill, City Clerk

CITY OF RIO DELL

By: Frank Wilson Dated: 3-17-16
Frank Wilson, Mayor

ATTEST:

By: Karen Dunham
Karen Dunham, City Clerk

CITY OF TRINIDAD

By: Dwight Miller Dated: 3/11/2016
~~Julie Fulkerson~~, Mayor , Dwight Miller

ATTEST:

By:
Gabriel Adams, City Clerk

HUMBOLDT BAY MUNICIPAL WATER DISTRICT

By: Barbara Hecathorn Dated: 3/10/16
Barbara Hecathorn, Board President

ATTEST:

By: Paul Helliker
Paul Helliker, General Manager

Acknowledged and Received by the REDWOOD ~~COMMUNITY~~ COAST ENERGY AUTHORITY

By: Linda Atkins Dated: 6/10/16
Linda Atkins, Chair of the Board

Exhibit A
Redwood Coast Energy Authority
Amended and Restated Joint Powers Agreement

Board Voting Shares for Community Choice Aggregation Business

Jurisdiction	Electric customer accounts (Dec 2014)	Percentage of total accounts (jurisdiction's accounts divided by total accounts)	Customer Base Voting Share (67 x ratio of accounts)	Pro Rata Voting Share (33 x [1/number of Directors])	Total votes, prior to rounding	TOTAL VOTES
City of Arcata	8,203	12.41%	8.31	4.125	12.44	**12**
City of Blue Lake	664	1.00%	0.67	4.125	4.80	**5**
City of Eureka	13,965	21.13%	14.16	4.125	18.29	**18**
City of Ferndale	939	1.42%	0.95	4.125	5.08	**5**
City of Fortuna	5,584	8.45%	5.66	4.125	9.79	**10**
City of Rio Dell	1,508	2.28%	1.53	4.125	6.06	**6**
City of Trinidad	272	0.41%	0.27	4.125	4.40	**4**
County of Humboldt (unincorporated)	34,950	52.88%	35.44	4.125	39.57	**40**
Total	66,085	99.99%	66.99	33	100.03	**100**

- Due to rounding, totals will differ at various stages of the calculation process.

- The percentages of total accounts are rounded to two decimal places prior to calculating the Customer Base Voting Share.
- Customer Base Voting Share = 67 multiplied by the % of total accounts, rounded to two decimal places.
- Total votes are the sum of the Pro Rata Voting Share and the Customer Base Voting Share, rounded to the nearest whole number.
- The allocation of voting shares will be updated every two years, and as-needed to adjust for changes in the make-up of jurisdictions participating in the CCA.

REDWOOD COAST
EnergyAuthority

September 4, 2018

U.S. Department of the Interior
Bureau of Ocean Energy Management (BOEM)
Pacific Region
770 Paseo Camarillo, Second Floor
Camarillo, California 93010

To Whom It May Concern:

The Redwood Coast Energy Authority, a local joint powers agency in Eureka, California, is authorized by governing law to hold a lease or grant for the purpose sought as detailed in the accompanying lease application, and Matthew Marshall, Executive Director, is authorized to bind the agency in its business with the Bureau of Ocean Energy Management per the Redwood Coast Energy Authority's Board of Director's authorization on June 18, 2018 to submit the above referenced lease application.

Sincerely,

Matthew Marshall
Executive Director

633 3rd Street
Eureka, CA 95501
(707) 269-1700

info@redwoodenergy.org

www.RedwoodEnergy.org

Redwood Coast Energy Authority

633 3rd Street, Eureka, CA 95501
Phone: (707) 269-1700 Toll-Free (800) 931-RCEA Fax: (707) 269-1777
E-mail: info@redwoodenergy.org Web: www.redwoodenergy.org

DRAFT BOARD OF DIRECTORS MEETING MINUTES

Humboldt Bay Municipal Water District Office **June 18, 2018**
828 7th Street, Eureka, CA 95501 **Monday, 3:15 p.m.**

A regular meeting of the Board of Directors of the Redwood Coast Energy Authority was held on the above date at 3:15 p.m. with Chair Woo presiding. Notice of this meeting was posted on June 14, 2018. PRESENT: Chair Woo, Vice Chair Winkler, Directors Allison, Ricca, Wilson, Sweeney, Miller. ABSENT: Directors Fennell, Glaser. STAFF PRESENT: Business Development & Planning Director Biondini, General Counsel Diamond, Finance and Human Resources Director Edmiston, Power Resources Director Engel, Power Resources Specialist Gwynn, Executive Director Marshall, Account Services Manager Slackerelli, Community Strategies Manager Stephenson.

REPORTS FROM MEMBER ENTITIES

Vice Chair Winkler attended a documentary film screening on companies that clear-cut forests to make wood pellets, which he said differs from local biomass energy production. Mr. Winkler reported having a good dialog with the film producers, Ellen Golla, and Wendy Ring which included supporting the concept of RCEA working on switching people from wood stoves to electric heat pumps.

ORAL COMMUNICATIONS

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

CONSENT CALENDAR

3.1 Approve Minutes of May 21, 2018, Board Meeting.
3.2 Approve Disbursements Report.
3.3 Accept Financial Reports.

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

M/S: Winkler, Ricca: Approve consent calendar items.

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

OLD BUSINESS

5.1 Offshore Wind Development

Executive Director Marshall summarized the offshore wind project's next steps and provided an overview of the agreement's objectives, phases of the project's life cycle through decommissioning and removal, detailed descriptions of Phase 1, and the lease area for which RCEA proposes to bid.

Mr. Marshall described the special purpose vehicle (SPV) to be created during Phase 1, which is typically a limited liability company that owns and operates a project and enables transparent, trackable cost-sharing between project development partners. SPV creation is a standard industry practice for energy development projects. RCEA's possible roles in the SPV include having some form of owner-equity share or retaining a decision-making role without ownership. RCEA's role will be evaluated and decided during Phase 1.

Mr. Marshall stated the project team has agreed that RCEA should be the Bureau of Ocean Energy Management (BOEM) lease applicant, with the intent that the lease would be transferred to the SPV after acquiring site control. The proposed cooperative agreement supports the lease application. The project partners are narrowing down the final lease area to request, and are reaching out to commercial fishermen, local tribes and environmental groups to get additional input before finalizing the lease area.

Director Allison inquired whether the team could renew or expand the lease should the project succeed. Mr. Marshall replied that RCEA or other developers could apply for additional blocks. He added that the demonstration project design was based on current electrical grid capacity although the lease area could accommodate some, but not much, additional production. Expansion would require transmission upgrades such as an undersea cable to the Bay Area or upgrading the existing lines east out of the county.

Chair Woo invited public comment. Alison Talbott of PG&E was curious why Principle Power sank and then raised its pilot offshore wind platform prior to be being redeployed to Scotland.

Jim Zoellick of the Schatz Energy Research Center asked what would happen if another entity secured the lease, and whether RCEA's offshore wind project could still move forward.

Chair Woo closed public comment.

Executive Director Marshall explained that Principle Power obtained permission to sink its platform for wet storage, which the technology's durability makes possible and was more cost effective than transport to dry land storage. Mr. Marshall stated it is possible RCEA will not be granted the BOEM lease, in which case the Board might consider purchasing power from the successful bidders. RCEA's offshore wind request for qualifications generated numerous capable responses. Mr. Marshall stated that, regardless of the lease bid outcome, RCEA's efforts are helping catalyze offshore wind energy development locally.

M/S: Sweeney, Miller: Authorize staff to submit an outer-continental shelf offshore wind unsolicited lease request to the Bureau of Ocean Energy Management, contingent on final review and approval by RCEA Legal Counsel and the Board Offshore Wind Project Phase 1 Subcommittee.

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

Executive Director Marshall requested the Board establish an ad hoc subcommittee of up to four Directors to provide input and guidance to staff, bring recommendations to the Board,

and engage with staff between regular Board meetings. The subcommittee would perform these duties during Phase 1 of the project, after which the subcommittee would be dissolved. Directors Allison and Vice Chair Winkler and Chair Woo expressed interest in serving on the subcommittee. It was suggested that Director Fennell, who served enthusiastically on the Offshore Wind Request for Qualifications Subcommittee, would be an excellent member.

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

M/S: Miller, Sweeney: Establish Offshore Wind Project Phase 1 Board Subcommittee comprised of Directors Austin Allison, Estelle Fennell, Vice Chair Michael Winkler and Chair Sheri Woo.

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

Counsel Diamond reported that she is researching if and/or how a public agency can participate in the offshore wind project's special purpose vehicle (SPV) and the cooperative agreement language provides guidance for and allows latitude in negotiating the SPV. The Board will consider the cooperative agreement at a subsequent meeting and Ms. Diamond requested input or direction from the Board at this stage. Hearing no comment from the Board, Chair Woo stated she looked forward to hearing Counsel Diamond's recommendations.

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

As the Offshore Wind Energy Development Cooperation Agreement was not ready for the Board's consideration, Executive Director Marshall requested the Board Chair potentially call a special meeting during early July to consider the agreement. He requested the Board Clerk poll the Directors to find a suitable meeting date.

NEW BUSINESS

6.1 Fiscal Year 2018-19 Budget

Executive Director Marshall presented a staff report and presentation on the fiscal year (FY) 2018-2019 budget. The budget does not include Community Choice Energy (CCE) funded programs, which the Board will approve, following Community Advisory Committee review and input, at a subsequent meeting. The Board will be asked to approve budget adjustments based on the programs it selects for funding.

Mr. Marshall provided an overview of the different transaction structures that RCEA engages in for wholesale power procurement. He stated that a Board Finance Subcommittee would be able to study the process in greater depth.

Chair Woo thanked Executive Director Marshall for compiling the budget report and invited public comment.

Dr. Norman Bell, an RCEA Community Advisory Committee member but in this instance speaking as a member of the public, noted that biomass is both the most expensive renewable energy RCEA purchases and the most controversial for the people with which he communicates. He requested the Board keep biomass' non-renewable aspects and carbon footprint in mind when making power purchase decisions.

Jim Zoellick of the Schatz Energy Research Center inquired whether the 12% increase in revenue and cost was related to wholesale power cost or load increases.

Member of the public Ellen Golla asked how much of wholesale power's 84% of the budget and 57% of the customer rate is going to biomass. Ms. Golla stated there is a difference between renewable and clean, and that biomass may be renewable but it is not clean.

Chair Woo closed public comment.

Director Miller inquired if RCEA is considering a 100 percent solar option and Director Wilson requested seeing RCEA's power procurement portfolio's energy sources by dollar amount and percentage.

Executive Director Marshall responded that the 12% revenue increases were caused by increases in customer enrollment in the Community Choice Energy Program, including the addition of Ferndale at the beginning of 2018, as well as wholesale energy cost changes. He stated he will provide Ms. Golla and the Board additional detail and a pie chart of the power procurement portfolio reflecting percentage and dollar values.

Chair Woo noted that no energy production is free of environmental or public health impacts and even solar arrays can impact birds. Director Wilson added that Bay Area windmills have changed fog patterns and inland areas dry more quickly. He stated that the biomass energy industry will persist locally because it makes sense for Humboldt County to process its own waste locally while also contributing to the economy. Vice Chair Winkler stated he would like to see a program incentivizing homeowners' switch from wood stoves to electric heat pumps as wood stoves produce uncontrolled pollution in neighborhoods and emit more harmful fine particles than wood waste power plants.

M/S: Wilson, Miller: Adopt RCEA Fiscal Year 2018-19 Budget.

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

Executive Director Marshall requested that the Board establish an ad hoc finance subcommittee of no more than four Directors to study this fiscal year's budget, assist in setting next year's budget and provide input on information the Board requires to assess the proposed budget. The subcommittee would disband after next year's budget is adopted.

Chair Woo, Director Wilson and Vice Chair Winkler volunteered to serve on the subcommittee.

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

M/S: Miller, Allison: Establish FY18-19 Board Finance Subcommittee comprised of Director Frank Wilson, Vice Chair Michael Winkler and Chair Sheri Woo.

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

COMMUNITY CHOICE ENERGY (CCE) BUSINESS

Chair Woo determined a CCE quorum was not present. Counsel Diamond stated a quorum of the RCEA Board, of which the CCE is part, was present. Since the agenda item required no action of the CCE portion, listening to an informational presentation was allowable.

OLD CCE BUSINESS – None.

NEW CCE BUSINESS

8.1 PG&E and RCEA Joint Rate Comparison Mailer (information only, no action)

Director of Power Resources Engel presented a report on the annual mailer required by the California Public Utilities Commission (CPUC) and the California Energy Commission (CEC) to be sent to all electric customers. The postcard compares RCEA and PG&E electricity rates and power supply mixes. Detailed information is available online at PGE.com.

Chair Woo invited public comment.

Member of the public Ellen Golla inquired how the 11% biomass percentage was derived.

Member of the public Norman Bell stated that the cost of biomass is significant.

Alison Talbott of PG&E stated that PG&E still supplies nuclear power through the Diablo Canyon facility and inquired whether the mailer reflects this.

Chair Woo closed public comment.

Mr. Engel stated that in 2017 RCEA had one biomass provider, Humboldt Redwood Company (HRC). In 2018, HRC's output increased and DG Fairhaven began providing power, increasing local biomass energy to potentially ~20% of RCEA's power portfolio. Executive Director Marshall added that the format of the information is mandated by the state, including the definition of renewable energy definition and the use of the previous year's confirmed data.

Mr. Engel stated that RCEA is required to do an emissions report and one is expected later this year from The Energy Authority. While the California Air Resources Board keeps all biomass plant greenhouse gas emissions data, the current state law requires reporting only fossil fuel emissions to the public. Biomass' fine particulate matter data from burning wood waste can be obtained through the North Coast Unified Air Quality Management District.

END OF COMMUNITY CHOICE ENERGY (CCE) BUSINESS

STAFF REPORTS

9.1 Executive Director

- Terra-Gen Monument Ridge Wind Project

Executive Director Marshall stated that renewable energy company Terra-Gen, LLC, is planning an approximately 125 MW onshore wind project in the Monument Ridge area to the south of Rio Dell. The company's goal is to sell electricity generated at the site by 2020. The RCEA community energy program's launch period goals include investigation of onshore wind options. Terra-Gen requested making a presentation to the Board in August. Mr. Marshall stated that he and Counsel Diamond will evaluate possible negotiation pathways to ensure competitive pricing should RCEA chose to consider buying power from the project.

Director Allison asked whether the offshore and onshore wind projects' electricity could be managed locally. Mr. Marshall stated that the projects would produce more power than RCEA's current load and so there would likely be other power-purchasers in addition to RCEA for both projects. Offshore wind's initial costs will be high, but RCEA can work with other CCAs to purchase the energy to support technology development. He added that European offshore wind is now achieving unsubsidized, competitive pricing, but that the technology is in early development stages in this country.

Chair Woo opened the public comment period.

Alison Talbott of PG&E stated that she has not seen any community outreach for the Terra-Gen project and was concerned for the success of the project given the history of the Bear River Ridge Project previously proposed nearby. She inquired whether the Board had seen any public engagement efforts.

Chair Woo closed the public comment period.

Board members commented they had not heard of any public outreach. Executive Director Marshall stated that they have hired former EPIC Executive Director Natalynne DeLapp as a local community engagement consultant and believes they intend to launch a project website and begin to ramp-up public engagement efforts.

ADJOURNMENT

Chair Woo adjourned the meeting at 5:17 p.m.

Respectfully Submitted,

Lori Taketa
Clerk of the Board

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DRAFT BOARD OF DIRECTORS MEETING MINUTES

Humboldt Bay Municipal Water District Office **July 16, 2018**
828 7th Street, Eureka, CA 95501 **Monday, 3:15 p.m.**

A regular meeting of the Board of Directors of the Redwood Coast Energy Authority was held on the above date at 3:14 p.m. with Chair Sheri Woo presiding. Notice of this meeting was posted on July 12, 2018. PRESENT: Austin Allison, Dwight Miller, Bobbi Ricca, Michael Sweeney, Vice-Chair Michael Winkler, Chair Sheri Woo. ABSENT: Estelle Fennell, Dean Glaser, Frank Wilson. STAFF PRESENT: Business Development and Planning Director Lori Biondini, Power Resources Manager Allison Campbell, Power Resources Director Richard Engel, Power Resources Specialist Jocelyn Gwynn, Finance Manager Nicole Halvorsen, Account Services Manager Mahayla Slackerelli, Community Strategies Manager Nancy Stephenson, General Counsel Nancy Diamond and TEA Consultant Jeff Fuller.

REPORTS FROM MEMBER ENTITIES

Chair Woo stated Humboldt Bay Municipal Water District received a notice to proceed from the California Wildlife Conservation Board for scientific studies required for an application to dedicate the Mad River's unused instream flow for environmental benefit. Chair Woo thanked RCEA staff for assisting during Executive Director Marshall's absence and commended Acting Executive Director Biondini for representing RCEA well during a KHSU radio program on offshore wind energy.

Director Sweeney commended Staff Director Jacobson for facilitating, and Staff Manager Stephenson for assisting with, the July 10 Community Advisory Committee meeting.

ORAL COMMUNICATIONS

Chair Woo invited public comment.

Regional Government Services' Kendall Flint made a presentation on behalf of the City of Eureka about the proposed ½ cent road repair sales tax which will be on the November ballot. She explained that Eureka's roads are in fair condition and that if no additional revenue is raised, roads will deteriorate in the next 10 years and cost over $84 million to repair. If approved in November, the sales tax will generate about $2.2 million that can be leveraged for state funding to keep roads near current condition at greatly lower cost.

Chair Woo closed public comment.

CONSENT CALENDAR

3.1 Approve Minutes of June 18, 2018, Board Meeting.

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

M/S: Miller, Allison: Approve consent calendar items.

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

OLD BUSINESS - Offshore Wind Update

Counsel Diamond stated that a draft agreement is close to completion and will cover the project through the Bureau of Ocean Energy Management lease application, create a project company as a funding mechanism and identify RCEA's legal relationship to the project. Acting Executive Director Biondini suggested the Board schedule a special meeting to review the draft agreement in a timely manner.

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

M/S: Miller, Ricca: Schedule a Special Meeting of the Redwood Coast Energy Authority Board of Directors for Monday, July 23, 2018, at 3:15 p.m. to discuss and approve the Humboldt Offshore Wind Energy Development cooperation agreement.

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

NEW BUSINESS - Humboldt Redwood Company Power Purchase Agreement

Power Resources Director Engel explained that, for estate management purposes, Humboldt Redwood Company (HRC) owners would like to assign the existing biomass power purchase agreement to the Humboldt Sawmill Company.

It was questioned whether the Board could deny approval of assignment, let the contract expire and seek a more affordable renewable energy source since HRC biomass is the most expensive energy RCEA currently purchases. Counsel Diamond stated that the legal standard for not approving a commercial transaction is whether the transaction is financially unreasonable and the new party cannot meet the old party's obligations. Counsel Diamond explained there is currently no change to financial capability and no basis for disapproval of the assignment. Non-approval, she stated, would likely not be upheld in court.

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

M/S: Winkler, Allison: Consent to assignment of the existing biomass power purchase agreement (PPA) from Humboldt Resource Company, LLC to Humboldt Sawmill Company, LLC, and authorize the Acting Executive Director to execute all necessary documents.

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

COMMUNITY CHOICE ENERGY (CCE) BUSINESS - Integrated Resource Plan (IRP)

Chair Woo determined a CCE quorum was not present. Counsel Diamond stated that energy risk management is risk borne by the full Board, so this item should be discussed as non-CCE old business. Integrated Resource Plan discussion, she stated, must be conducted with a CCE quorum present. Staff was directed to include the Integrated Resource Plan in the July special meeting agenda.

OLD BUSINESS, CONTINUED - Energy Risk Management Plan Quarterly Report

Jeff Fuller of The Energy Authority (TEA) narrated a presentation on RCEA's financial outlook. He stated the agency was on track to meet the Board-adopted savings goals of $2 million annually and $35 million in the rate stabilization fund after the first five years. Building financial reserves, he stated, is the agency's best risk management tool given upcoming requirements for 3-years-ahead local resource adequacy commitments and long-term power purchase agreements, potential PG&E rate decreases and the California Public Utilities Commission's power charge indifference adjustment, or exit fee, ruling. He stated that future conditions could trigger the material change provision in the Humboldt Redwood Company contract, and that developments will be included in October's quarterly energy risk management report.

The State's reasons for requiring longer-term power procurement contracts were discussed. Mr. Fuller explained that the State is trying to ensure adequate energy supplies for peak day loads during the transition to more renewable resources and is requiring all load serving entities to enter into power purchasing contracts three years in advance so power providers, including legacy gas-powered generators, can plan to provide electricity while remaining financially viable.

Mr. Fuller stated that RCEA may want to consider pursuing an investment-grade credit rating, and that the agency should focus on rating agency considerations: maintaining 150 days of cash on hand, or approximately $25 million, to cover total operating costs; and avoiding an opt out rate of more than 20%. Meeting the reserve targets could play a crucial role in obtaining an investment-grade rating, he stated, which may assist in meeting long-term procurement contract requirements.

During discussion of longer-term contract risks and tracking long-term trends, it was clarified that diversification remains a good risk management strategy, that RCEA and TEA are collaborating on risk analysis and that RCEA also communicates closely with other community choice aggregators statewide on procurement strategy.

Questions were raised about RCEA's possible response to large, new, local power generators such as offshore wind and to a potential increase in state greenhouse gas reduction goals. Staff Director Engel stated that as RCEA is already significantly exceeding the state's greenhouse gas emission reduction requirements, this is a minor risk, and that RCEA would likely be a minority customer for expensive, new power generators.

Chair Woo stated that liquid assets are a good hedge for RCEA and requested that staff inform the Board when program cutbacks are required to increase reserves.

Chair Woo invited public comment.

Member of the public Ellen Golla inquired whether the presentation's greenhouse gas (GHG) figures assume that biomass is carbon neutral. Staff Director Engel stated that the TEA report follows state GHG accounting rules which count only fossil fuel, or non-biogenic, emissions for biomass energy, not wood burning, or biogenic, emissions. Ms. Golla stated that carbon neutrality's current definition is controversial and that black carbon pollutants from biomass plants contribute to climate change.

Chair Woo closed public comment.

M/S: Winkler, Miller: Accept Energy Risk Management Plan quarterly report.

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

STAFF REPORTS – July 10, 2018 Community Advisory Committee Meeting

Community Strategies Manager Stephenson reported that the Community Advisory Committee discussed their charter and staff suggested creating a chair and co-chair position to facilitate calling special meetings. The Committee may appoint members to those positions at an August 21 special meeting.

Ms. Stephenson described the Committee's input on staff-proposed Community Choice Energy-funded customer programs which included: that customer programs be equitable; an interest in helping financially disadvantaged people gain access to cleaner energy technology over incentivizing more affluent people to adopt clean energy options; a desire to address gaps in existing programs and requests for broadly-accessible language in project outreach efforts.

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

ADJOURNMENT

Chair Woo adjourned the meeting at 4:23 p.m.

Respectfully Submitted,

Lori Taketa
Clerk of the Board

APPENDIX B: DOCUMENTATION DESCRIBING THE TECHNICAL QUALIFICATIONS OF APPLICANT AND CONSULTANTS/CONTRACTORS

Documentation of technical qualifications are included in the following pages.

Letters of Commitment from Project Consultants

There have been no significant, relevant and adverse legal or regulatory actions taken against RCEA in the last 5 years.

REDWOOD COAST ENERGY AUTHORITY
(Applicant and Project Partner)

RCEA is a local government joint powers agency with member agencies consisting of the County of Humboldt, the Cities of Arcata, Blue Lake, Eureka, Ferndale, Fortuna, Rio Dell, Trinidad and the Humboldt Bay Municipal Water District. RCEA is governed by a board of directors whose members are appointed by the governing bodies of its member agencies. Formed in 2003, RCEA's mission is to develop and implement sustainable energy initiatives that reduce energy demand, increase energy efficiency, and advance the use of clean, efficient and renewable resources available in the region. Relating to the local development of floating offshore wind energy, RCEA's 2003 Joint Powers Agreement includes specific goals to:

- Lead, coordinate and integrate regional efforts that advance secure, sustainable, clean and affordable energy resources.
- Support research, development, demonstration, innovation, and commercialization of sustainable energy technologies by public and private entities operating in Humboldt County.

The Humboldt County General Plan designates RCEA as the regional energy authority with the responsibility to coordinate and facilitate countywide strategic energy planning and implementation. In 2012, RCEA adopted the Humboldt County Comprehensive Action Plan for Energy (CAPE), which is one of RCEA's primary guiding documents. The CAPE established specific strategic action items relevant to the development of the region's offshore wind energy resources, including:

- Large-Scale Wind Energy: Work with utilities and private companies to develop off-shore wind energy demonstration projects.
- Emerging Energy Technologies: Support the development of emerging energy technology from local innovators and inventors, as well as from non-local sources.
- Business Development: Collaborate with local economic development entities to attract technology developers, manufacturers, and energy service providers to locate operations in the County when appropriate.
- Proactive Development Support: Collaborate 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.
- Local Energy Investment: Work with local economic development entities and financial institutions to develop programs and resources that facilitate local community investment in and/or ownership of energy efficiency and renewable energy projects.

Finalized in 2014, the RePower Humboldt Strategic Plan (a community-wide effort to define a vision and Strategic Plan for achieving energy independence and energy security in Humboldt County) identifies "pursuing opportunities for off-shore wind energy research, development, and

demonstration" as an important objective, noting that Humboldt County is uniquely positioned to play a critical role in the early adoption of offshore wind energy resources in California and that local harbor infrastructure can support development of these technologies.

RCEA Key Personnel

Matthew Marshall, Executive Director

Matthew Marshall, Executive Director of RCEA, has 15 years of energy consulting and program management experience. Matthew has served as Executive Director of RCEA since 2010, during which time the organization has expanded into the areas of alternative transportation vehicles and fuels, community scale renewable energy, and Community Choice Aggregation.

Lori Biondini, Director of Business Development and Planning

Lori Biondini serves as RCEA's director of business development and planning. Her previous work experience includes support and management of environmental, geological, and civil engineering projects in the private sector, and private and non-profit organization financial management. Lori holds a Master of Arts in Social Science with an emphasis in Environment and Community from Humboldt State University.

Richard Engel, Director of Power Resources

Richard Engel, RCEA's director of power resources, has 30 years of experience in the energy field. He has extensive experience working for publicly-funded agencies and R&D laboratories on built environment energy efficiency, alternative fuels, and renewable energy, and was integral to RCEA's launch of the Community Choice Energy program in 2017. Richard also has experience working in rural communities abroad on solar microgrid projects and was a Fulbright scholar in El Salvador, where he taught a university course on renewable energy. Richard holds a Bachelor of Science in Environmental Resources Engineering from Humboldt State University.

Dana Boudreau, Director of Operations

Dana Boudreau has 15 years of experience in the energy sector and has helped guide RCEA's organizational growth over the past 12 years. Dana oversees core operational functions including information technology, data management, and physical asset management which currently includes a network of electric vehicle charging stations. Dana has a degree in Business Management.

Nancy Stephenson, Community Strategies Manager

Nancy Stephenson focuses on outreach and marketing activities at RCEA, bringing decades of community engagement and project experience to the team. Previously Director of Arcata Main Street and Humboldt County's largest one-day festival, the Oyster Festival, Nancy has also worked with the Northcoast Environmental Center, KHSU/ Humboldt State University, Humboldt Baykeeper, the Humboldt Trails Council, local realtors, as a graphic artist, and was the campaign manager for 3rd District County Supervisor, Mike Wilson. Nancy attended Humboldt State University.

Patricia Terry, Project Manager

Patricia Terry is a project manager at RCEA with a degree in engineering from the University of Michigan and a masters in oceanography from University of California, San Diego. Prior to working for RCEA, Patricia worked as an engineer for Marine Applied Research and Exploration

and the Scripps Institution of Oceanography. Patricia is one of a handful of people in Northern California to work on and operate remotely operated vehicles for scientific research.

Allison Campbell, Power Resources Manager

Allison Campbell is the power resources manager for RCEA and currently works on supporting power procurement and regulatory compliance for the Community Choice Energy program. Prior to working for RCEA, Allison worked as a project leader for developing software for a new telescope instrument and to process and analyze scientific telescope data. Allison holds a Master of Science in Astronomy from New Mexico State, and a Master of Science in Environmental Systems with an emphasis in Energy Technology and Policy from Humboldt State.

Mahayla Slackerelli, Accounts Services Manager

Mahayla Slackerelli manages the consultant and utility relationships for RCEA's Community Choice Energy program in addition to leading rate setting and customer care policy and implementation. Mahayla has served on the Arcata Energy Committee since 2015 advising the City Council on energy and climate related policies including energy efficiency ordinances, waste reduction programs and renewable energy adoption. Mahayla has a Master of Science in Environmental Systems with an emphasis in Energy Technology and Policy from Humboldt State University.

Jocelyn Gwynn, Energy Specialist

Jocelyn Gwynn came to RCEA from the solar energy field, working as an installer and office manager for a private business that serves Humboldt County. She was also a laboratory instructor at Humboldt State University in the Environmental Science and Management department, where she conducted field and computer lab classes related to data collection, analysis, and presentation. Jocelyn holds a Bachelor of Science in Environmental Science with an emphasis in Energy and Climate from Humboldt State University and received the Outstanding Student of the Year Award in her department upon graduating in 2014. As RCEA's Energy Specialist, Jocelyn works on a variety of aspects of the Community Choice Energy Program, including program tracking, data management, customer relations, and regulatory compliance.

Sample Projects

Redwood Coast Energy Watch & Other Contract/Grant Funded Initiatives

The Redwood Coast Energy Authority has partnered with the Pacific Gas and Electric Company for the past 11 years to offer comprehensive energy efficiency services to ratepayers in Humboldt County. RCEA has implemented over $6 million of rate-payer-funded energy programs that have reduced electricity demand. These programs have focused on education, direct engagement with community residents and business owners, managing the planning and installation of energy saving measures, and innovative pilot programs meant to target hard-to-reach markets.

Other examples of RCEA experience include: leading the development of the draft Energy Element for Humboldt County's General Plan Update; participation in the Humboldt Bay Power Plant repowering and nuclear decommissioning project Community Advisory Group; completion of a US Department of Energy (DOE) funded Million Solar Roofs grant; implementation of American Recovery and Reinvestment Act (ARRA)-funded projects through the Energy

Efficiency and Conservation Block Grant (EECBG) program as well as regional delivery of Energy Upgrade California program outreach, education, and contractor training; and California Energy Commission-funded projects through Public Interest Energy Research and Alternative and Renewable Fuel and Vehicle Technology Programs:

- Renewable Energy Secure Community Program, $199,987
- Community Scale Renewable Energy Integration Demonstration, $1,750,000
- Plug-in Electric Vehicle Readiness Planning, $199,949
- Alternative Fuels Readiness Planning, $300,000
- North Coast Plug-in Electric Vehicle Charging Network, $293,843
- Plug-in Electric Vehicle Readiness Plan Implementation Phase I, $300,000
- North Coast and Upstate Fuel Cell Vehicle Readiness Project, $187,000
- North Coast Plug-in Electric Vehicle Readiness Plan Implementation Phase II, $110, 851

Redwood Coast Energy Authority's Community Choice Energy Program

The latest development for RCEA is the launch of our Community Choice Energy (CCE) program that procures electricity for Humboldt County ratepayers. In May 2017 RCEA launched California's 8th Community Choice Aggregation program which allows RCEA to begin planning for our community to invest in local renewable energy sources, reduce our dependence on fossil fuels, and implement local energy programs for customers. RCEA has had to work closely with technical consultants and contractors to complete the feasibility studies, planning the implementation, and launching into the operations phase. This work has included developing a foundation of solid relationships with trusted partners; quickly and efficiently ramping up internal staff and operations to accommodate the development of this new business venture with very little upfront capital; and robust community and stakeholder engagement strategies to secure buy-in and solidify program goals. Key stakeholders that we have had to work effectively with include all the incorporated Cities in Humboldt County, the County of Humboldt, the local investor owned utility Pacific Gas & Electric Company, and electricity ratepayers. With less than 10% of ratepayers choosing to opt-out of the program, our launch was a success and RCEA is moving forward with the goal of providing Humboldt County will more local renewable energy.

PRINCIPLE POWER, INC.
(Project Partner)

Principle Power, Inc. was incorporated in 2007 with the aim of commercializing marine renewable energy technologies. In 2008, the Company secured an Exclusive Worldwide License to the WindFloat technology from Marine Innovation & Technology (MI&T), an engineering company founded by Christian Cermelli and Dominique Roddier. In 2014, PPI merged with MI&T, bringing full design, engineering, and execution capabilities in house. The merger enabled the company to fully integrate technical, commercial, and financial expertise and to provide customers with comprehensive floating wind solutions for their projects worldwide.

PPI is an innovative developer, technology and services provider for the offshore wind energy market. Our leading, proven and patented technology, the WindFloat – a floating wind turbine foundation – provides access to transitional (40-60 meters) and deep-water (over 60 meters) sites, globally – by offering an enabling technology for the development of the OFW industry as whole and opening new deepwater markets.

A robust commercialization strategy is necessary to build the foundation for future market success and to realize the value created through technology innovation. PPI is pursuing a commercialization pathway that enables rapid innovation and cost reduction, while minimizing risk to the company and customers. By building a portfolio of projects in diverse markets, and with varied partners, we gain valuable experience that helps to position us for enhanced competitiveness. Each phase of the commercialization pathway is described below:

- **Demonstration** – WindFloat 1 (2011): Initial deployment of the WindFloat technology in 2011 aimed at demonstrating the technical feasibility of the WindFloat concept during fabrication, installation, operation, and decommissioning.

- **Pre-commercial Demonstration Projects (2018-2020):** Deployment of arrays of modern 5-8 MW wind turbines to demonstrate ability to deliver competitive LCOE, prove bankability of floating technology, and verify technical performance of up-scaled, optimized design/processes. The deployment of pre-commercial arrays in different markets will enable technical validation in different site conditions (depth, extreme conditions), provide the opportunity to partner with different commercial partners, and motivate the development of regional supply chains. Partnership with a variety of turbine OEMs creates allies with experience, helping to accelerate the market and motivate competitive bidding for turbine supply in projects that feature WindFloats. Financing will be structured in ways that are as similar as possible to those that will be employed in commercial projects to gain experience and demonstrate bankability.

- **Initial Commercial-Scale Projects (2021-2024):** These projects build on the progress from the Pre-commercial projects to develop 100 MW+ offshore wind projects around the globe using 8+ MW WTGs. Cost reduction and performance improvements are achieved through a) Technology Roadmap execution and process learnings b) financial risk reduction from pre-commercial projects c) scale effects, including purpose-built fabrication and port facilities, volume-order discounts, more efficient electric infrastructure designs, vessel specialization, etc. and d) other external industry innovations including turbine performance and reliability improvements, supply chain competition/maturation, electrical infrastructure improvements, better access vessels,

standardized contracting, etc. Projects are economically competitive with fixed-bottom offshore wind projects (after accounting for market maturity factors). This proposal contemplates the Redwood Coast Project will be developed as an initial commercial-scale project.

- **Next Generation Commercial-Scale Projects (2024→):** The WindFloat technology enters a fully mature phase; Offshore wind projects using WindFloat technology coupled with the next generation of 10 to 15 MW offshore wind turbines are competitive with other sources of generation in most coastal electricity markets. Further cost reductions are achieved relative to initial commercial projects, driven by execution of the Technology Roadmap, learning efficiencies, and industry maturity.

The year 2017 has been characterized by dynamism in markets around the world, as established developers and utilities seek new markets with less intense competitive pressures and small developers seek to identify and take advantage of potential opportunities worldwide.

On all fronts, PPI's progress has carried over from 2016. The lifecycle success of the prototype deployed in Portugal, the advancement of demonstration commercial arrays namely in Europe, and increasing interest and expectations for floating wind turbines in general, have created an environment in which information about PPI and its technology are sought by large development companies, policy makers and supply chain actors. The offshore wind industry is attracted to the opportunity that floating wind turbines make available and recognizes that these technologies, especially those that have demonstrated success and minimize risk, present tremendous potential for economic activity.

In 2017, PPI made significant progress refining approaches to customer segments and, combined with new partnerships, building out a pipeline of over 9GW of projects globally. This pipeline is comprised of projects in various stages of development, from very early (prospects) to contracted projects, ready for construction. A key to this evolution has been PPI's embrace of early development activity as a complement to its continued development of the technology, engineering and O&M activities. This is the level of engagement PPI expects to have with the Redwood Coast Project, with leadership, presence and support throughout the life cycle, from development to engineering, and through construction and operation.

Sample Projects

Floating Offshore Wind Technology and Project Design

Please note that projects that have not developed beyond a FEED study are ongoing at this time (February 2018) and are not listed below. Further details can be provided on request.

Table B-1. Reference list of projects and planned projects relevant to Area 2[1]

Client	EDP Innovation, Repsol, Portugal Ventures, ASM Industries	US Department of Energy (DOE)	Mitsui Engineering and Ship Building Co.; NEDO	EDPR, Engie, Repsol, Marubeni, Mitsubishi, Chiyoda	ENGIE, Caisse des Dépots, Eiffage, EDPR	Confidential Customer
Contract/ project reference	WF1 Prototype	WF Pacific Project	Akita Project	WF Atlantic Project	LEFGL Project (AAP)	WF UK Project
Project Description	Single unit, 2 MW, 5 years life project in Portugal	Up to 30 MW farm, 3-4 units, 25-year life project in Oregon	Single unit, 5 MW, 20 years life project in Sea of Japan	25 MW farm, 3 units, 25-year life project in Portugal	24 MW farm 4 units, 20 years life project in France	50 MW farm, 6 units, 25-year life project in the UK
Contract description	EPCI	Development and Engineering (FEED)	Hull and mooring, Feed and DD; Technology Licensing Assistance to PCI	Hull and mooring, Feed and Detailed Design (DD). Assistance to PCI, Technology License, O&M	Hull and mooring, Feed and Detailed Design (DD). Assistance to PCI, Technology License, O&M	Hull and mooring, Feed and Detailed Design (DD). Assistance to PCI, Technology License, O&M
Contract start date	2008	2013	2015	2014	2017	2018
Completion date	2011	2015	2016	2019	2021	2019-2020

The WindFloat is the most competitive, bankable, safe, reliable and environmentally-friendly floating technology for offshore wind. WindFloat technology has been fully proven through our **full-scale prototype called WF1 (2 MW Vestas V80 turbine)**, which was installed 5 km offshore in Portugal in 2011. In 5 years of operation, the prototype delivered over 17.5 GWh of electricity to the grid and survived waves of up to 17 m while maintaining reliable performance and without sustaining any structural damage. PPI delivered this project under a turnkey EPCI contract (except turbine procurement) and managed product operations, performing platform O&M and interfacing with Vestas for WTG and other subcontractors (e.g., access vessels, inspectors, ports). In 2016, after the prototype had achieved all test objectives, PPI planned and implemented the entire decommissioning operation, safely delivering the platform to port, where the turbine was dismounted and sold for use in another project. This was the first full life-cycle experience for a full scale floating wind turbine, from construction to decommissioning at quay side. It demonstrated the flexibility and deployability of the system, the low-cost operations, and the relative low impact of installation and decommissioning to the environment.

[1] On most projects, PPI is also the company securing an O&M contract for the platform itself (WF1: 2011-2015; WFA expected >2019; UK expected > 2018; LEFGL expected >2021)

The second generation of WindFloat units will be deployed at the **25 MW WindFloat Atlantic project** off Viana do Castelo in northern Portugal (COD in 2019). This project uses 3 MHI Vestas V-164 wind turbines rated at 8.33 MW, the largest turbines currently available in the market, and will be delivered under a fully commercial, 25-year business case, under a non-recourse finance structure. The sponsor of WindFloat Atlantic is Windplus, a consortium led by EDPR, which includes Repsol, TrustEnergy (Engie/Marubeni JV), Mitsubishi Corporation, and Chiyoda Corporation. PPI also holds a minority stake in this project. PPI is responsible for the design of the WindFloat units, Mooring System, Inter-Array Cable, Fabrication and Installation Plan, and O&M Plan through a Master Engineering Services Agreement. PPI has also been designated as the preferred bidder for providing O&M services from the commercial operations date.

PPI is also partnering with French EPCI Contractor Eiffage to supply third generation WindFloat units for a **24 MW project off Leucate in the Mediterranean Sea (LEFGL project)**, which will use 4 GE-Alstom Haliade 6.0-150 turbines. The project consortium is led by Engie, EDPR, and Caisse des Dépôts and is scheduled to be online by early 2021.

Additionally, PPI also completed design cycles for WindFloat projects on the West coast (**WindFloat Pacific in Oregon**) of the United States and in Japan (**WindFloat Japan**), which have received Approval in Principle from the correspondent classification societies. PPI is also planning to install a 50MW-wind farm off Scotland (**WindFloat Scotland**) in 2019 and 2020.

The WindFloat technology is agnostic to class and wind turbine type, leaving both choices to the project team. We have worked extensively will all major classification societies and turbine manufacturers, and have obtained Approval in Principle (AIP) from ABS, Class NK and BV. DnV GL is certifying the turbine and tower on our WFA project.

The pilots, 3 advanced demonstration projects and other projects in different geographies, have allowed PPI to gain experience with several different contractual models: first as an EPC provider (WF1), second as an owner's engineer (WFA), and third as a subcontractor to an EPC (LEFGL). Our experience suggests that PPI is able to achieve the best outcomes (economic, efficiency, and other metrics) when contracted directly with the project company. Through this model, PPI is able to optimize costs by challenging the supply chain on using our extensive knowledge of the WindFloat technology, from design through fabrication, installation, and operation. The flexibility of the different types of involvement allows PPI to be amenable to different types of arrangements that may be ultimately determined to be optimal for the project, together with RCEA and the remaining Consortium partners. Figure B-1 shows a selection of the WindFloat technology pipeline as of February 2018.

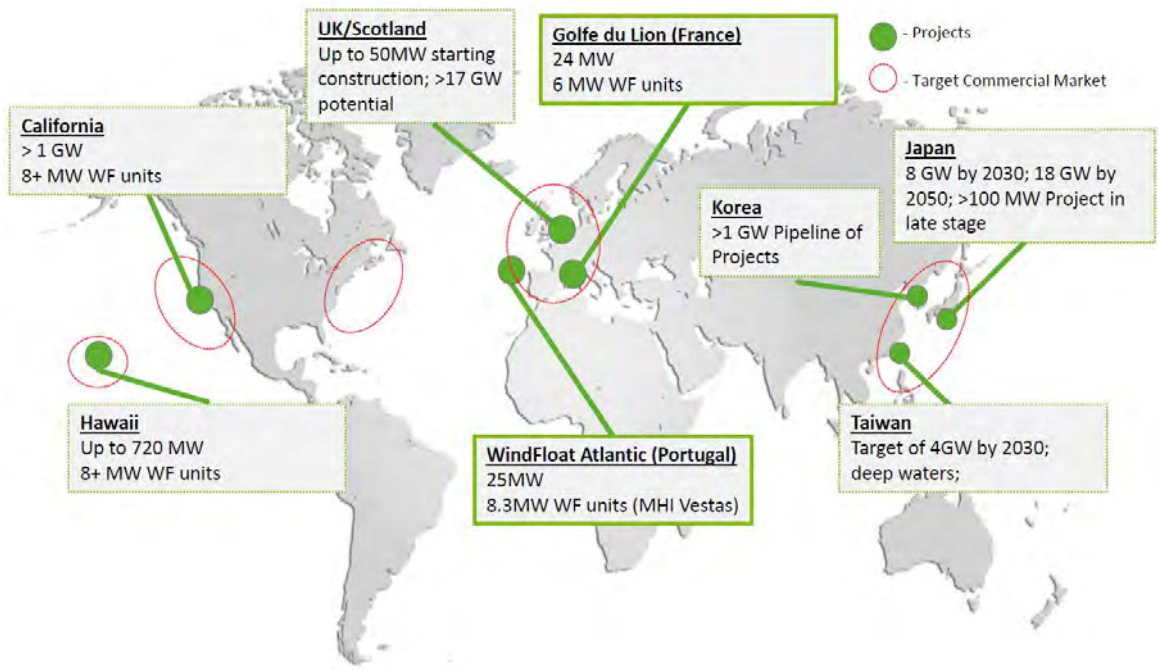


Figure B-1 WindFloat project pipeline (Sept. 2018)

Recent projects already under execution

Client	EDP Innovation	EDP Renewables	US Department of Energy (DOE)
Contract/project reference	WF1 Prototype	WF Atlantic Project	WF Pacific Project
Project Description	Single unit, 2 MW, 5 years life project in Portugal	25 MW farm, 3 units, 25-year life project in Portugal	Up to 30 MW farm, 3-4 units, 25-year life project in Oregon
Contract description	Project Development	Early Project Development	Project development
Contract start date	2008	2014	2013
Contract completion date	2011	2018	2018

PPI's **WindFloat Pacific project (WFP)** was an up to 30 MW floating offshore wind demonstration project proposed off the Coast of Oregon. The project was to be sited approximately 18 miles due west of Coos Bay, in over 1000 ft. of water, and was the first floating offshore wind array proposed in the United States, and the first offshore wind project of any kind proposed off the West Coast. PPI's WindFloat was at the heart of the proposed project. The full technical report of the project is attached in the Appendices.

PPI engaged in a lengthy process to determine the best site for the Project; including securing a unanimous endorsement from the local fishing fleet (secured through "SOORC", the Southern Oregon Ocean Resource Council). And in May 2013, PPI submitted an unsolicited lease

request to BOEM. This was the first such request that the BOEM Pacific region had received, and it, and the project more generally, created the opportunity for PPI and BOEM staffs to get to know each other and begin to exercise the offshore wind regulatory process.

With support from Herrera Environmental, PPI held dozens of meetings with stakeholders up and down the Oregon Coast and ultimately drafted a Construction and Operations Plan (COP). The COP is an expansive document (in this case, it was over 1,300 pages of material) that describes baseline conditions at the site, the socio-economic context of potentially affected communities, the ecological environment and ultimately the actual plans for construction and operation of the project. This was a first of its kind endeavor and required close coordination between PPI, agencies under consultation and BOEM. Many of the issues that PPI encountered and learned to address at WindFloat Pacific are similar to what may be expected to be encountered in Northern California, so this experience should benefit development off of Humboldt County.

In addition, PPI learned a tremendous amount about the West Coast supply chain, vessel availability and issues and other logistical elements that are important to West Coast offshore wind development. These lessons will help PPI work with RCEA to determine the most effective and efficient strategies for development and project execution.

EDPR OFFSHORE NORTH AMERICA, LLC
(Project Partner)

EDPR Offshore North America LLC is a wholly-owned subsidiary of EDP Renewables North America LLC.

EDPR NA is a wholly owned subsidiary of EDP Renováveis whose majority owner, Energias de Portugal ("EDP"), is a vertically-integrated utility company with a firmly established position in the global energy market. Given this ownership structure and for the sake of simplicity, of the involvement of all companies owned by the parent company EDP Renewables SA is simply referred to as "EDPR" in this application.

EDP Group (EDP)

Headquartered in Lisbon, Portugal, EDP is the largest generator, distributor and supplier of electricity in Portugal, the third largest energy company in the Iberian Peninsula, and the largest Portuguese group by market capitalization (over $11 billion). EDP holds, through its various constituent businesses, significant electricity and gas operations in Europe, Brazil and the United States. Worldwide, EDP has more than 26 GW of installed electricity generation capacity in and 10.8 million electricity and gas clients.

In February 2018 EDP was distinguished for the seventh consecutive year as one of the most ethical companies in the world. It is the only Portuguese company to be included in the Ethisphere Institute ranking.

In the 2018 World Most Ethical Companies list, the Ethisphere Institute distinguished 135 companies from 23 countries, and EDP is one of the six utilities in the "Energy & Utilities" sector. See the complete list here https://www.worldsmostethicalcompanies.com/honorees/.

EDP is a world leader in the 'Utilities Industry: Electricity, Water and Sanitation, and Gas' category in the Dow Jones Sustainability World Index (DJSI World) and the Dow Jones Sustainability Europe Index (DJSI Europe). This reflects international recognition for the excellent performance of the sustainability strategy defined and implemented within the EDP group. In 2017, EDP achieved a score of 91 (more 2 points than in 2016), 41 points above the average score of electric utilities. Thus, maintaining its position in the World Index for the 10thconsecutive year and was selected by RobecoSAM to be part of DJSI Europe, where mark position for 8 years2.

EDP Renováveis SA (EDPR)

EDPR is a leading global renewable energy company that develops, builds, owns and operates power plants that generate electricity using renewable energy sources. EDPR operates in three broad geographic areas: Europe, North America and South America. Specifically, it currently owns and operates wind and solar farms in 11 countries: Spain, Portugal, France, Belgium, Poland, Romania, Italy the United States of America, Mexico, Canada and Brazil; it has various offshore and onshore wind, solar and energy storage projects in varied stages of development

[2] More information can be found at https://www.edp.com/en/sustainability/economic-dimension/sustainability-indexes/dow-jones-index

and construction in various markets, and it is actively engaged in expanding its activities into other countries and technologies.

With more than 11 GW of installed wind capacity and close to 28TWh generated as of YE 2017, EDPR is ranked fourth in the world in wind energy based on net installed capacity and is consistently ranked in the top three in terms of sectorial growth.

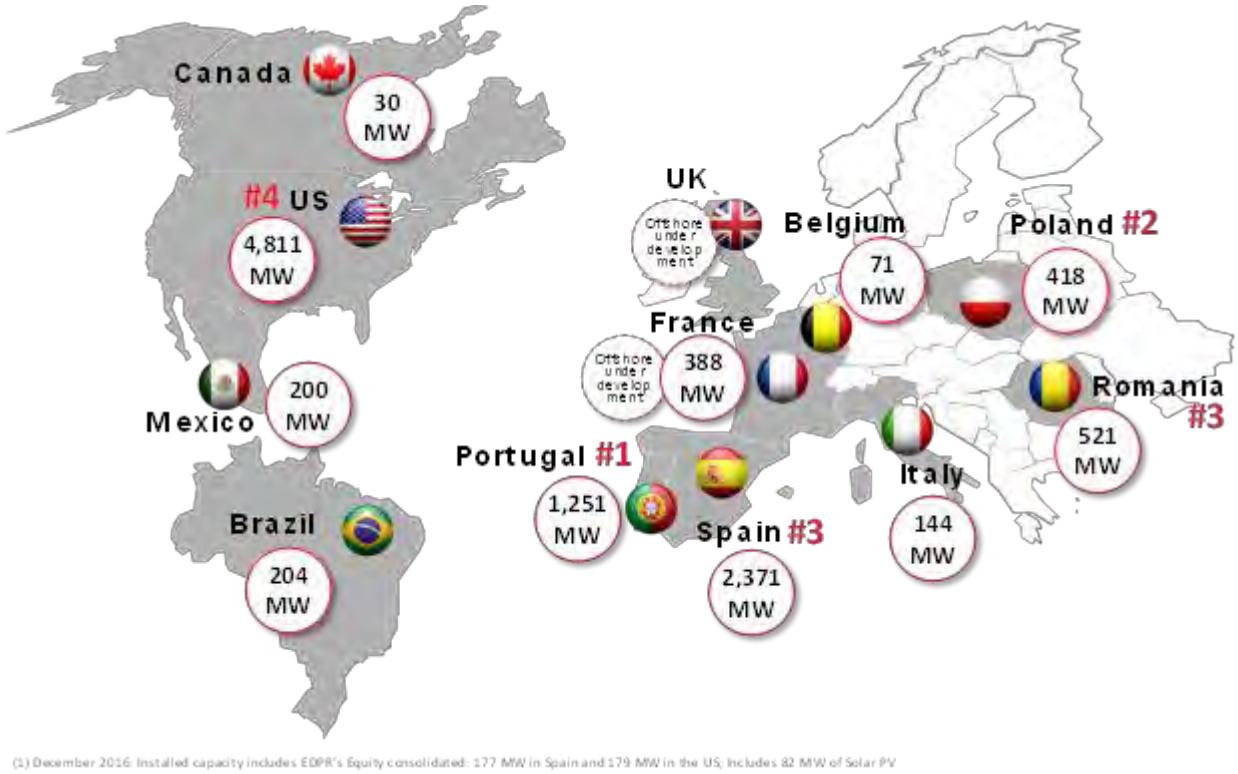


Figure B-2. EDPR international footprint and MW in operations by end of 2016

EDP Renewables North America (EDPR NA)

EDPR NA, a wholly owned subsidiary of EDP Renováveis, develops, constructs, owns, and operates wind and solar renewable energy projects throughout the U.S., Canada and Mexico. EDPR NA is based in Houston, Texas, with over 500 employees and regional offices in New York, Oregon, Illinois, and Massachusetts. EDPR NA's rigorous approach has led to the successful development of more than 5GW of renewable energy facilities located in the U.S., and the company has demonstrated a proven ability to successfully navigate complicated land, interconnection and permitting environments in order to achieve commercial operations for its projects.

EDPR NA's operational assets, 44 wind farms and 4 solar parks, are spread across 13 U.S. states, one Mexican state and one Canadian province, making EDPR NA the 4th largest owner of renewable energy in the United States. EDPR NA is an industry leader in operational reliability: with nearly 3,000 turbines in operation and drawing on over 120 million turbine-hours of operational history, EDPR NA is able to maintain over 97% availability fleet-wide. EDPR NA

is also actively developing a portfolio of more than 10,000 MW of additional renewable energy assets in over fifteen states in the U.S.

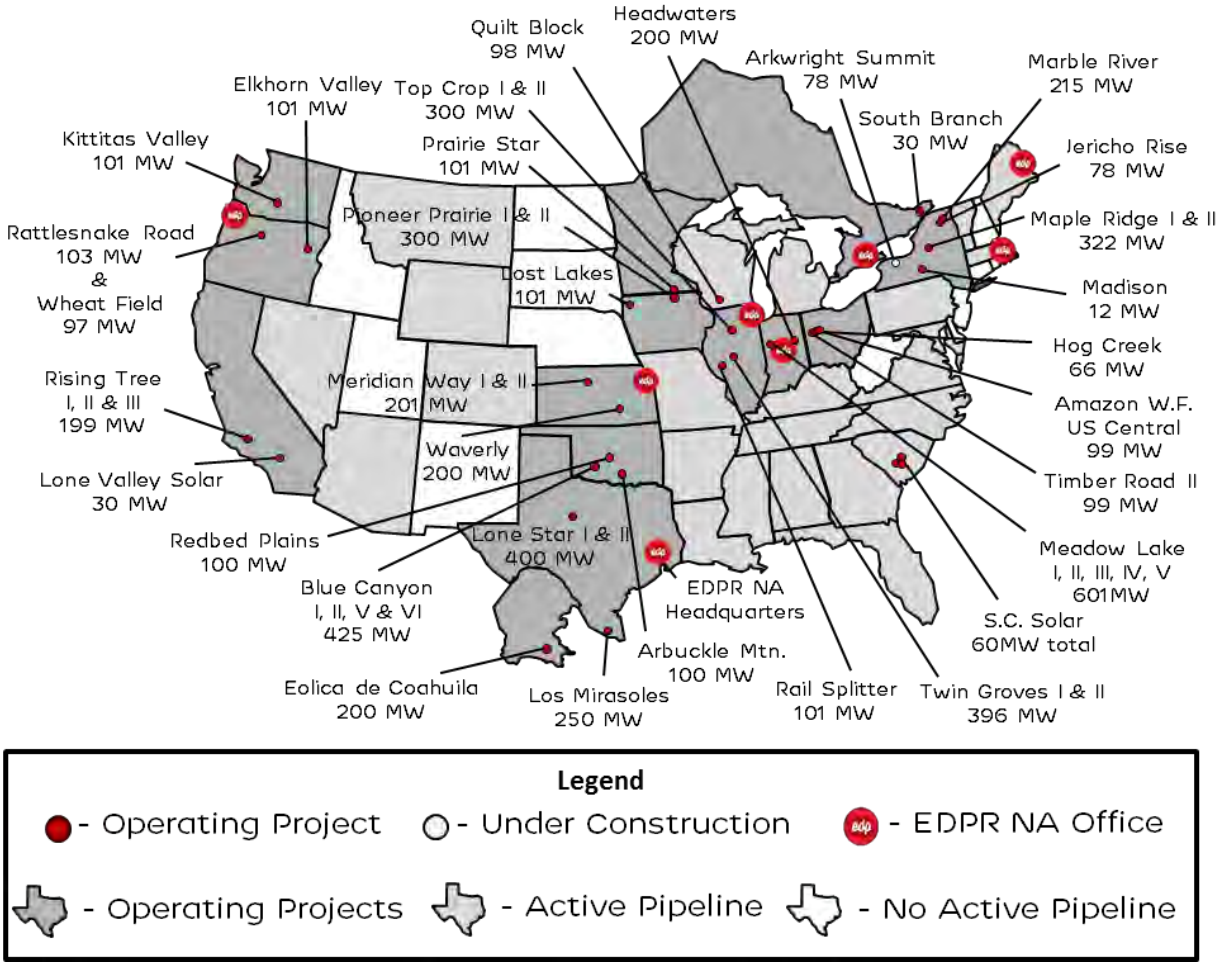


Figure B-3. Location of EDPR NA renewable assets and offices

After successfully sponsoring the WindFloat 1 project, EDPR swiftly progressed into the pre-commercial phase of floating technology and is developing two offshore floating wind energy projects located in France (Les Éoliennes Flottantes du Golfe du Lyon) and in Portugal (WindFloat Atlantic). In addition to these floating wind energy projects, EDPR is also leading the development of 2GW of non-floating offshore wind energy projects with secured offtake in France (“Treport” and “Noirmoutier”) and the United Kingdom (Moray East). EDPR is looking for new opportunities outside of Europe to expand its pipeline and is pursuing several initiatives internationally.

Community Engagement

EDPR places a strong emphasis on engaging communities early in the development process and takes pride in being proactive and transparent when it comes to community outreach and education.

With 20 years of experience, EDPR knows that developing a renewable energy project requires close coordination with ocean users, landowners, local business owners, and grid operators, local, state, and federal officials, and local residents and members of the public. EDPR recognizes that each community's needs are unique and works with local stakeholders to ensure that these are met in a thoughtful way.

In some cases, EDPR has hired outside firms to conduct stakeholder interviews and listening sessions to collect community input on projects. EDPR keeps detailed records of community engagement and stakeholder outreach activities and includes them in regulatory filings, as applicable. This assures an accurate accounting of community issues and strategies to address them. EDPR is committed to engaging with the local community before, during, and after construction of renewable energy assets.

Sample Projects

Here below are described the offshore wind assets of EDPR. It is important to underscore that in every project EDPR plays the role of an active shareholder that contributes with its core capabilities during the project life cycle namely: development, procurement, finance, construction management and operation. In addition to the offshore projects and providing evidence about EDPR's extensive experience in North America the list of projects located in North America is included dating back to the year 2000.

US, Canada and Mexico

By the end of 2018, EDPR expects to complete construction of three additional renewable energy projects totaling 478 MW.

Project	County/ Municipality	Province/ State	Project Stage	Planned COD	Capacity
Arkwright Summit	Chautauqua	NY	Construction	September 2018	78.0 MW
Meadow Lake VI	Benton	IN	Development	December 2018	200.0 MW
Turtle Creek	Mitchel	IA	Development	December 2018	200.0 MW

List of operating projects in NA by commercial operation date (COD):

Project Name	Technology	State	Installed Capacity	COD Year
Hog Creek	Wind	OH	66.00	2017
Estil Solar	Solar PV	SC	20.00	2017
Cameron Solar	Solar PV	SC	20.00	2017
Hampton Solar	Solar PV	SC	20.00	2017
Redbed Plains	Wind	OK	100.00	2017

Project Name	Technology	State	Installed Capacity	COD Year
Quilt Block	Wind	WI	98.00	2017
Meadow Lake V	Wind	IN	100.00	2017
Eólica de Coahuila	Wind	COA	199.5	2017
Jericho Rise	Wind	NY	77.70	2016
Los Mirasoles	Wind	TX	250.00	2016
Timber Road III	Wind	OH	100.8	2016
Waverly	Wind	KS	200.00	2016
Arbuckle Mountain	Wind	OK	100.00	2015
Rising Tree III	Wind	CA	99.00	2015
Rising Tree II	Wind	CA	19.80	2015
Rising Tree I	Wind	CA	79.20	2015
Lone Valley II	Solar PV	CA	20.00	2015
Lone Valley I	Solar PV	CA	10.00	2015
Headwaters	Wind	IN	200.00	2014
South Branch	Wind	ON	30.00	2014
Marble River	Wind	NY	215.25	2012
Blue Canyon VI	Wind	OK	100.00	2011
Timber Road II	Wind	OH	99.00	2011
Kittitas Valley	Wind	WA	100.80	2010
Meadow Lake IV	Wind	IN	98.70	2010
Top Crop II	Wind	IL	198.00	2010
Meadow Lake III	Wind	IN	103.50	2010
Meadow Lake II	Wind	IN	99.00	2010
Pioneer Prairie II	Wind	IA	102.30	2009
Lost Lakes	Wind	IA	100.65	2009
Blue Canyon V	Wind	OK	99.00	2009
Meadow Lake I	Wind	IN	199.65	2009
Top Crop I	Wind	IL	102.00	2009
Rail Splitter	Wind	IL	100.50	2009
Wheat Field	Wind	OR	96.60	2009
Meridian Way I	Wind	KS	105.00	2008
Meridian Way II	Wind	KS	96.00	2008
Pioneer Prairie I	Wind	IA	198.00	2008
Rattlesnake Road	Wind	OR	102.90	2008
Lone Star II	Wind	TX	200.00	2008
Twin Groves II	Wind	IL	198.00	2008
Elkhorn Valley	Wind	OR	100.65	2007
Lone Star I	Wind	TX	200.00	2007
Prairie Star	Wind	MN	100.65	2007
Twin Groves I	Wind	IL	198.00	2007
Maple Ridge II	Wind	NY	90.75	2006
Maple Ridge I	Wind	NY	231.00	2006
Blue Canyon II	Wind	OK	151.20	2005
Blue Canyon I	Wind	OK	74.25	2003
Madison	Wind	NY	11.55	2000

United Kingdom

In January 2010, in the United Kingdom EDPR through its project company Moray Offshore Renewable Limited (MORL) was awarded the exclusive rights to develop offshore wind energy

in Zone 1 of the 3rd Offshore Wind Licensing Round ("UK Round 3"). The Zone 1 has a size over 550 km2 and the potential to deliver more than 1.5 GW of power.

The zone 1 is known as the Moray Firth zone and it has been developed in two projects: Moray East and Moray West. Updated information of both projects can be found in the web page http://www.morayoffshore.com/

Moray East

In March 2014 MORL was granted the key construction permit by the Scottish government, for 1,116 MW offshore wind development in what is called the Moray East project. In September 2017 EDPR was granted a contract for difference (CfD) by the UK government for 950MW and currently EDPR plans to reach the financial closure for the $2.5 billion Moray East project in 2018 and achieve the commissioning phase in 2021.

- Ownership: EDPR 77% and Engie 23%.
- Location: Moray Firth, Scotland.
- Capacity: 950 MW.
- Water depth: approximately 40 to 55m variable across the site
- Turbine: MHI Vestas V164-9.5MW
- Balance of plant: the substructure design is pre-piled jackets that are connected with 66KV inter-array cable to the substations. The transmission infrastructure (built by the Project under "OFTO regime") consists of 3 substation also with jacket structures interconnected between them for certain redundancy and connected with 3 offshore export cables of circa 65km each and 3 buried onshore cables of circa 30km to a substation that connects to the grid.
- Operating status: Financial Closed planned for Q4 2018 and commissioning in 2021.

Moray West

- Ownership: EDPR 100%.
- Location: Moray Firth, Scotland.
- Capacity: UP to 750 MW.
- Turbine: not decided.
- Balance of plant: not decided.
- Operating status: Under permitting process.

France

In 2014 the results of the Round 2 tender in France were announced and in June 2014 EDPR was awarded the lease, the offtake agreement and the grid connection of two projects located in the Atlantic and North Sea French coast named Treport and Noirmoutier. Today EDPR owns both projects in partnership with two major players named Engie and Caisse des Depots et Consignations (CDC). Following the bidding success in the French Round 2, in the year 2016 EDPR and its two French partners became awarded in the French offshore wind competitive process to deliver a 24MW in the French Mediterranean waters.

Treport

- Ownership: EDPR 43%, Engie 47% and CDC 10%
- Location: Normandy, France
- Capacity: 496 MW.
- Turbine: Siemens-Gamesa 8MW
- Balance of plant: not decided.
- Operating status: Construction permits submitted in 2017 and commissioning planned by 2023
- Additional information: https://dieppe-le-treport.eoliennes-mer.fr/

Noirmoutier

- Ownership: EDPR 43%, Engie 47% and CDC 10%
- Location: Normandy, France
- Capacity: 496 MW.
- Turbine: Siemens-Gamesa 8MW
- Balance of plant: not decided.
- Operating status: Construction permits submitted in 2017 and commissioning planned by 2023
- Additional information: https://iles-yeu-noirmoutier.eoliennes-mer.fr/

Les Eoliennes Flottantes du Golfe du Lyon (LEFGL)

This project is a 24 MW project off Leucate in the Mediterranean Sea, which will use 4 GE-Alstom Haliade 6.0-150 turbines. EDPR is co-leading (with Engie) the project financing of the project, and PPI is supplying third generation WindFloat units. The project consortium is led by Engie, EDPR, and Caisse des Dépôts and is scheduled to be online by early 2021.

Portugal

In 2009 EDP and Principle Power Inc. agreed a Memorandum of Agreement to co-develop a three-phased offshore off the coast of Portugal. Phase 1 would consist of the fabrication and installation of a single WindFloat for technology demonstration purposes. Following the successful completion and assessment of the demonstration unit, phase 2 and phase 3 will consist of a pre-commercial and commercial deployment respectively, making use of shared infrastructure and development from previous phases.

The Phase 1 has been successfully commissioned and decommissioned. EDPR is currently focused in reaching investment decision for the Phase 2 (WindFloat Atlantic) that would the first floating to be financed under a debt finance arrangement.

Portugal

In 2009, EDP and Principle Power Inc. signed a Memorandum of Agreement to co-develop a three-phased offshore wind farm off the coast of Portugal. Phase 1 consists of the fabrication and installation of a single WindFloat barge for technology demonstration purposes. Following the successful completion and assessment of the demonstration unit, phase 2 and phase 3 will consist of a pre-commercial and commercial deployment, respectively, making use of shared infrastructure and development from previous phases.

Phase 1 has been successfully commissioned and decommissioned. EDPR is currently focused on reaching an investment decision for Phase 2 (WindFloat Atlantic), which would be the first floating wind farm to be financed under a debt finance arrangement.

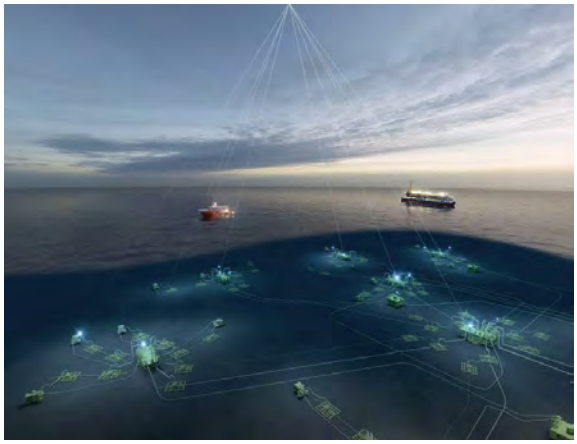
<u>WindFloat 1</u>

- Ownership: EDP, PPI, A Silva Matos, Repsol, Portugal Ventures
- Location: Porto, Portugal
- Capacity: 2 MW
- Turbine: Vestas 2MW
- Balance of plant: WindFloat technology
- Operating status: Commissioned in 2012 and decommissioned in 2016

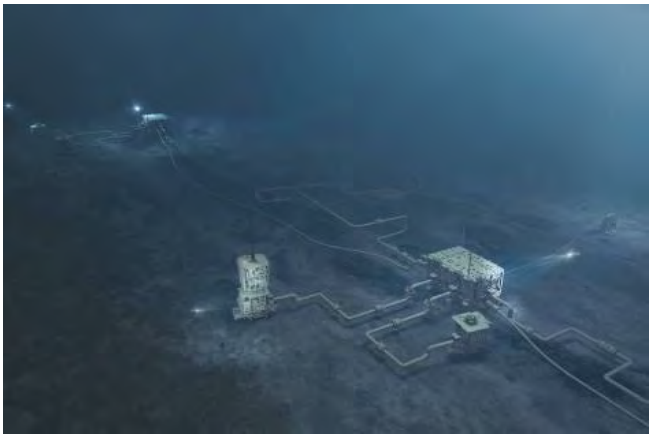
<u>WindFloat Atlantic</u>

- Ownership: EDP, Engie, Marubeni, Repsol, Mitsubishi, Chiyoda
- Location: Porto, Portugal
- Capacity: 24 MW
- Turbine: Siemens-MHI-Vestas 8MW
- Balance of plant: WindFloat technology
- Operating status: Investment decision planned in 2018 and commissioning in 2020
- Additional Information: https://www.edp.com/en/stories/windfloat

AKER SOLUTIONS INC.
(Project Partner)



Aker Solutions Inc. is headquartered in Houston, Texas and is a wholly owned subsidiary of Aker Solutions ASA, a Norwegian founded company with offices across the globe and a history encompassing a variety of industries over the last 177 years. The company is a central player in a wide range of industries, including ship building, hydro-power, oil and gas, wave power and bottom fixed offshore wind jackets. The modern capabilities and offerings of Aker Solutions were developed from the combination of two premier industrial Norwegian companies, Aker and Kvaerner, both with significant activities supplying the offshore oil and gas industry with equipment and engineering and construction services. This phase of the company started with the first commercial oil discovery in the North Sea in 1969 and the two companies combined in 2001, forming Aker Kvaerner, which in 2007 was renamed to Aker Solutions. Aker Solutions is committed to being part of a sustainable solution to the world's increasing energy needs. Our wind offering covers the entire lifecycle of a floating offshore wind farm, including planning, installation, commissioning, operations and maintenance services.



Aker Solutions is currently represented in 20 different countries, 52 locations, and counts approximately 14,000 employees.

On February 2018, Aker Solutions announced buying a minority share in and signing a strategic alliance with Principle Power, and did at the same time make public its ambitions and commitments to support the commercialization of the offshore floating wind industry (http://akersolutions.com/news/news-archive/2018/aker-solutions-expands-into-offshore-floating-wind/). Aker Solutions considers Principle Power's WindFloat the most mature technology for floating offshore wind turbines and provides the lowest overall LCOE. Aker Solutions has an extensive track record in development and operation of offshore facilities with a particular expertise in floating facilities. Aker Solutions in collaboration with Principle Power will industrialize floating solutions for offshore wind, reducing costs and risks for customers, and create a sustainable & competitive source of energy.

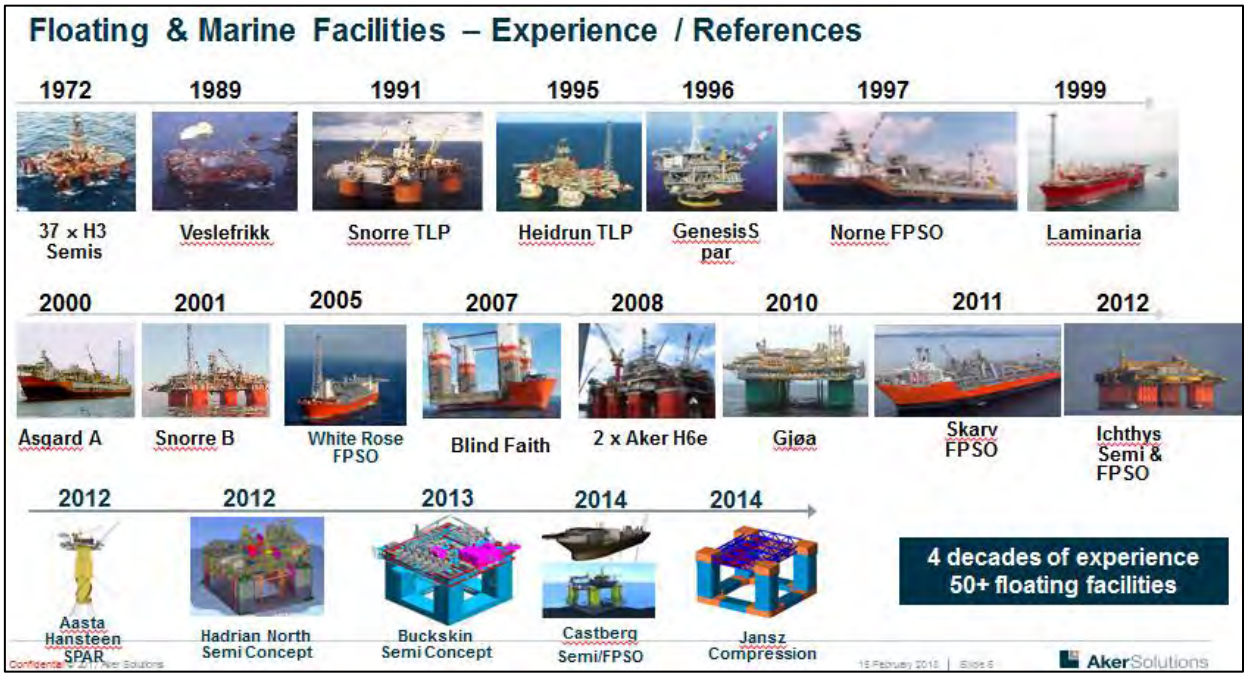
Offering and track record

Aker Solutions offers all aspects of offshore oil and gas developments, from early concept studies, equipment manufacturing, inspection & maintenance services to de-commissioning of products and systems for offshore oil and gas fields.

Aker Solutions designs and delivers products and services to some of the largest offshore oil and gas developments in the world, and in some of the harshest weather conditions The company's capabilities include engagement in the early stages of front end engineering for optimal field development. After FID, Aker Solutions typically manages the project and performs system integration of large EPC scopes. In addition, Aker Solutions has a well-established world class supply chain network across the globe, including experience with managing fabrication yards in Asia, Europe, Middle East and US. The global organization is trusted with managing major O&G companies most complex offshore field developments. As a reference case, Aker Solutions recently delivered the Kaombo project in Angola, Africa, which was one of the largest offshore subsea equipment contracts awarded with a value of approximately 2.4 BUSD. Aker Solutions successfully delivered nearly 150 subsea structures (manifolds & trees) installed in water depths up to 6,000ft3.

Floaters

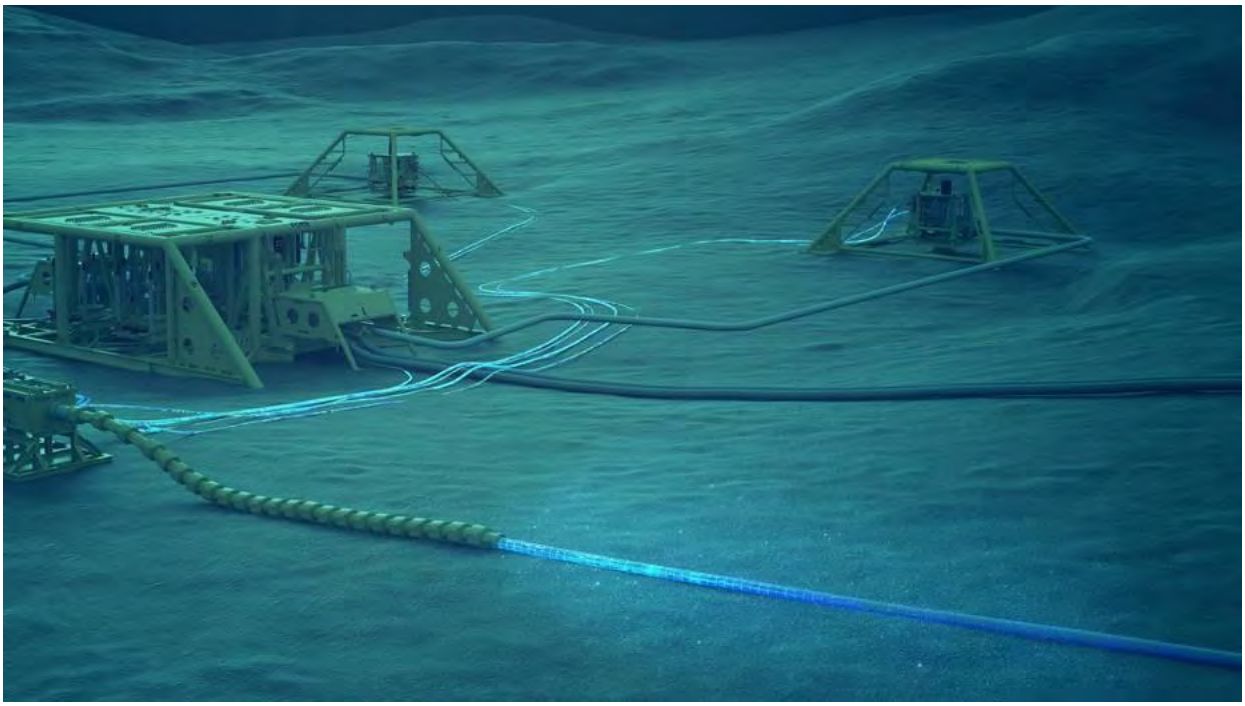
Aker Solutions has a unique track record over the last 4+ decades in designing, delivering and servicing semi-submersible platforms; which includes 43 of the Aker H3, H4 and H6 floating drilling units supplied since 1972. In 2010 the world's first floating O&G facility with power from shore was installed on the Norwegian Continental Shelf, with Aker Solutions providing engineering and procurement services for the design, delivery and hook-up/installation. The deliveries from Aker Solutions also included the dynamic umbilical/cable4.



[3] http://akersolutions.com/news/news-archive/2014/aker-solutions-wins-contract-to-deliver-subsea-production-system-for-totals-kaombo-development-in-angola/
[4] http://akersolutions.com/what-we-do/projects/gjoa-from-feasibility-to-production/

Power System design

In 2015 Aker Solutions delivered and commissioned the world's first natural gas compression system on the seabed (Åsgard5) off the coast of Norway in 1000ft of water depths. Asgard implemented an all-electric system delivering multi MWs of power from shore to an array of pumps, compressors and control units on the seabed. These power systems are very similar in design and concept to the power systems required for offshore floating wind farms to safely deliver the produced power back to shore.



Export/Array Cables

Aker Solutions is the market leader for subsea umbilicals, subsea electrical cables that also contain steel tubes for hydraulic & chemical use, and are widely used in the oil and gas industry.

[5] http://akersolutions.com/what-we-do/projects/asgard-solving-subseas-biggest-challenge/),

Aker Solutions has delivered over 550 umbilical cables over the last 20 years. The facility in Mobile, Alabama has produced over 1,500 miles of umbilical cables since it opened in 2003 and has the capacity store nearly 28,000 tons of umbilical cable.

This offering is based on a unique patented design that facilitates superior performance in deeper water dynamic applications. Aker Solutions recently completed the ENI Zohr Project in the Mediterranean6, which was the longest umbilical system in the world (180km) and delivered through the company's facilities in Mobile, Alabama, and Moss, Norway.

The Alabama facility is positioned on a deep draft (40ft water depth) port that can accommodate very large offshore installation vessels facilitating ease of transport and installation readiness.

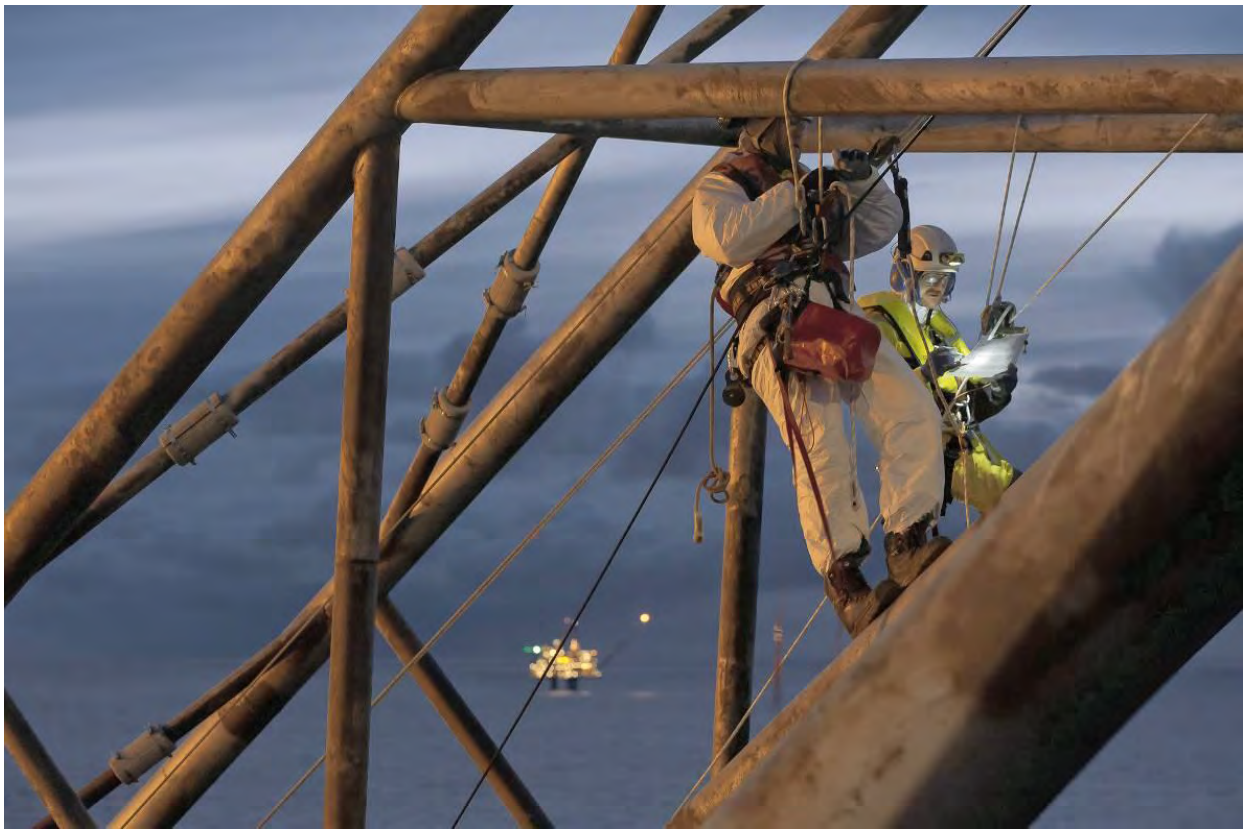
[6]http://akersolutions.com/news/news-archive/2016/aker-solutions-wins-order-for-umbilicals-at-egypts-zohr-offshore-gas-field/

Offshore O&M and Decommissioning

Aker Solutions also has an extensive offshore Operations and Maintenance business supporting major Oil and Gas operators and specializes in maximizing the value of their offshore assets. Offerings range from full duty holding, to installation and maintenance services, and field de-commissioning7.

Aker Solutions was also recently awarded an O&M contract from TenneT to service offshore sub-stations for their wind farms off the coast of Germany and Netherlands, which will build on our extensive global offshore O&M service offerings from O&G business stream.

[7] http://akersolutions.com/what-we-do/products-and-services/decommissioning/



Offshore wind

Building on transferable capabilities from the existing oil and gas offering, Aker Solutions offering to the offshore wind industry includes the following:

1. Offshore wind farm system architecture and integration consulting services
2. Floating foundation EPCI together with partner PPI
3. Power system design capabilities, including sub-stations EPCI (with partner ABB)
4. Dynamic array/export cables EPCI (with installation partner)
5. Operations and maintenance of offshore wind farms8

Aker Solutions has a long track record of supporting the local communities in the areas where they provide our products and services both in the US and around the globe. Globally Aker Solutions has relied upon and leveraged local infrastructure, businesses, & workers to establish facilities and training centers in Ghana, Congo, Nigeria, Brunei, Brazil, Alabama, & Norway.

[8] http://akersolutions.com/what-we-do/products-and-services/offshore-wind-solutions/

Aker Solutions has created JVs with several local companies, both incorporated and non-incorporated to grow value locally and contribute to facilitating sustainability.

When Aker Solutions selected the site for the subsea cable plant in Mobile, Alabama the chamber of commerce, local businesses, and suppliers were all engaged and contributed to the facility's development and continue to be a key component of its success today. The facility employs nearly 200 people from supply chain, engineers, and designers to testing technicians and welders all from the local area, utilizing local equipment and service providers. Aker Solutions in Mobile, AL has facilitated the economic growth of local companies and workers in the area, specifically in the industrial, fabrication, and services sector by providing coaching to qualify local suppliers to offshore industry specifications and requirements, and also provide training necessary per governing and regulatory approvals for offshore work. Additionally, Aker Solutions recognizes the importance of creating opportunities for young professionals and in 2005 engaged the local university to establish an internship program with its college of engineering. Since the start of the program over two dozen engineers have been hired or gained valuable hands on experience through the program.

Sample Projects

Client	Contract/project reference	Project Description	Contract descriptio n	Contract start date	Contract completi on date
Engie	Gjøa	Power from shore to the floating O&G facility.	EPC	2005	2010
Statoil	Åsgard,	Complete Power system design and delivery from the Asgard floating facility to a subsea compression station	EPC	2010	2015
Confidential	AC Sub-station	Defined technical, schedule and commercials for system on behalf of client w/partner ABB	Feasibility study	2017	2018
Confidential	Offshore floating wind to power O&G facility	Define technical, schedule and commercials for system on behalf of O&G operator buying electricity	Feasibility study	2017	-
Total E&P	Kaombo Subsea Production System	Delivery of complete O&G Subsea production system for more than 150 subsea structures	EPC & O&M	2014	2018
Innogy	NorSea	Supply of 49 Jackets for offshore wind turbines and substation	EPC	2008	2012
Statoil	Åsgard	Subsea compression station, including power system design and supply	EPC & O&M	2010	2015
Tennet	Germany/ Netherlands	Substation operation and maintenance	Operation and maintenan ce contract	2018	-

Client	Contract/project reference	Project Description	Contract description	Contract start date	Contract completion date
Premier	Solan	Duty holder for clients offshore O&G asset West of Shetland, services include facility management, operations and maintenance planning and execution etc.	Operation and Maintenance contract	2009	2017

H. T. HARVEY & ASSOCIATES, INC.
(Consultant)

Since 1970, the highly trained ecologists and professionals at H. T. Harvey & Associates have delivered exceptional consulting services to public agencies, private entities, and nonprofit organizations. The expertise of our staff encompasses a wide range of biological and design disciplines required to perform high-quality work on ecological projects. We apply our expertise in wildlife ecology, restoration ecology, plant ecology, fish and aquatic ecology, and landscape architecture in pursuit of our mission to create ecologically sound solutions to our clients' complex natural resource challenges. Our senior scientists average 25 years of experience in their respective disciplines, and many are recognized leaders in their fields. Collectively, we have published more than 500 peer-reviewed scientific research papers on a variety of subjects. Today the company includes nine principals and over 75 ecologists, landscape architects, and other professionals in six offices in California and Hawaii. We have successfully completed thousands of projects for our clients.

Areas of service:

- Environmental analysis
- Permitting
- Restoration design
- Landscape architecture and planning
- Compliance support
- Conservation planning

Our expertise:

- Wildlife ecology
- Plant ecology
- Restoration ecology
- Fish and aquatic ecology
- Landscape architecture and planning

H. T. Harvey Key Personnel

Sharon Kramer—Principal, Fish Ecologist

Dr. Sharon Kramer is a Principal and Senior Fish Ecologist with more than 25 years of experience focusing on aquatic ecology and fisheries biology in the Pacific Northwest, California, Australia, and Hawaii. Since joining H. T. Harvey & Associates in 2007, Sharon has been involved in FERC licensing/BOEM leases and permitting of west coast marine and hydrokinetic projects including Ocean Power Technology's Reedsport Wave Energy Park, Snohomish Public Utility District's Admiralty Inlet Pilot Tidal Project, and Pacific Gas & Electric's Humboldt WaveConnect Project. She is currently assisting Oregon State University with permitting their Pacific Marine Energy Center-South Energy Test Site. Sharon has worked on marine and hydrokinetic energy development (e.g., siting, environmental effects, baseline monitoring) for the U.S. Department of Energy, Pacific Northwest National Laboratory, University of Washington, Pacific Ocean Energy Trust, California Ocean Protection Council, and the Bureau of Ocean Energy Management, which included development of several peer-reviewed reports that provide important foundations for successful project permitting and

implementation. She has extensive experience with the Endangered Species Act and National Environmental Policy Act from past positions at the National Marine Fisheries Service and the U.S. Fish and Wildlife Service.

Dr. Kramer has worked locally in Humboldt County since the 1990s. She led development of marine biological sections for PG&E's Humboldt WaveConnect draft and final pilot license application, and has developed with OSU, PNNL and others a framework for evaluating and monitoring environmental effects associated with offshore marine renewable energy, including developing the case study for a hypothetical floating offshore wind project off Humboldt. She is uniquely qualified to lead Technical Consulting Services locally, with local knowledge and expertise, and experience working in marine renewable energy project permitting and licensing, including onshore terrestrial permitting for interconnect and transmission line upgrades, along the west coast. She will be point of contact to coordinate between other ecologists at H. T. Harvey & Associates, Herrera, and the RCEA project team.

Scott Terrill—Vice President and Principal, Wildlife Ecologist

Dr. Scott Terrill is an internationally recognized avian ecology and behavior expert with more than 35 years of experience. Scott has made major contributions to the study of bird migration and movements, and also has a strong background in vertebrate community ecology and population biology in terrestrial, estuarine, and marine habitats. Scott has managed more than 1,000 projects at H. T. Harvey & Associates. His expertise extends into all major habitats in western North America, and his experience ranges throughout North America, and Hawaii, Middle and South America, and Europe. His current focus areas are assessing and mitigating the potential effects that solar, terrestrial and offshore wind, and marine and hydrokinetic projects can have on birds and applying our firm's wildlife, avian, and renewable energy–related expertise to projects in California, other western states, and Hawaii.

Scott Terrill has extensive seabird, shorebird and terrestrial bird experience, including development of mitigation plans and permitting for construction. He was essential to the development of the Bird and Bat Conservation Strategy for PMEC-SETS, providing minimization and mitigation for migratory birds and bats associated with both marine and terrestrial aspects of project construction and operation. Scott has developed numerous Bird and Bat Conservation Strategies for terrestrial wind and solar projects, and was the principle in charge for developing the habitat conservation plan for a terrestrial wind energy project developed in Humboldt County. Scott was also instrumental with mitigation and monitoring approaches for the western snowy plover, an ESA listed shorebird, for PMEC-SETS.

David Ainley—Senior Marine Wildlife Ecologist

Dr. David Ainley is an ecologist specializing in the life histories of top predators, especially seabirds, including their roles in marine foodwebs and the way those roles are impacted by environmental change. Although he is primarily involved in the research wing of our business, David plays a key role in projects that involve issues with marine wildlife, particularly marine birds. David is internationally recognized for his extensive research experience in the community ecology and trophodynamics of birds and mammals, especially those of marine systems. He has attained global expertise in several areas of investigation, having conducted projects in polar, tropical, and temperate regions. The projects he has led include over 20 years of research on the distribution of birds and mammals at sea on the West Coast of the United States; a multiyear effort to rehabilitate habitat on the Farallon Island National Wildlife Refuge, and to restore several diminished or extirpated populations of marine birds and mammals;

studies to evaluate effects of power lines and other structures on endangered seabirds in Hawaii; assessments of impacts to marine birds and mammals from oil spills in California, Alaska, and Antarctica; and efforts to evaluate the suitability of offshore California sites for deposition of dredged materials. David is a founding member of the Pacific Seabird Group and the Society for Marine Mammalogy, and has been awarded Lifetime Achievement Awards by the Pacific Seabird Group and Point Blue Conservation Science.

David has studied seabird behavior and distribution in the California Current for decades, and recently published a paper on seabird flight behavior and flight height relevant to understanding species with potential risks to offshore wind projects, and the conditions that make them susceptible. He has contributed this expertise at offshore wind energy conferences, including the 2017 California Offshore Wind Symposium in Sacramento, where he was a presenter. His understanding of distribution, timing and potential vulnerability of seabirds to marine renewable energy projects, including offshore wind projects, will assist in the permitting and development of monitoring and adaptive management strategies as projects move forward.

Sample Projects

PG&E WaveConnect—Humboldt County

Pacific Gas and Electric Company (PG&E) prepared a draft hydrokinetic pilot project license application for the Federal Energy Regulatory Commission (FERC) for their Humboldt WaveConnect™ Project (FERC 12779). PG&E proposed to develop a wave energy pilot project off the coast of Humboldt County to give wave energy conversion device manufacturers the opportunity to test their devices and facilitate the development of wave energy technology. The WaveConnect Project would have provided renewable electrical power to the local community for the limited time of the license while the technologies are evaluated and environmental studies are conducted.

H. T. Harvey & Associates provided scientific services to PG&E for the license preparation and permitting, evaluating potential project effects on marine resources. In Phase 1, H. T. Harvey & Associates developed the initial marine environmental baseline information for the draft FERC hydrokinetic pilot license application for the WaveConnect Project, which included evaluating potential project effects and developing study plans for monitoring and adaptive management of marine resources; in Phase 2 H. T. Harvey & Associates was involved in preparing the final hydrokinetic pilot license application and permitting for marine resources under the jurisdiction of the National Oceanic and Atmospheric Administration (NOAA).

West Coast Environmental Protocols Framework: Baseline and Monitoring Studies

In order to effectively manage coastal and offshore renewable energy projects, a significant amount of environmental data needs to be collected in baseline and pre-construction studies, and in operational monitoring. Currently, no standards exist to ensure that data collection methodologies produce scientifically valid and comparable data. Standard protocols and formats for the collection and comparison of data clearly are needed for offshore renewable energy. In order to ensure that these protocols are accepted by both regulatory agencies and developers alike, and to reduce potential conflicts, it is important that these protocols be developed in a fashion that takes into account input from stakeholders. The overarching goal of the project (funded by U.S. Bureau of Ocean Energy Management (BOEM), and supported by the U.S. Department of Energy (DOE) and the National Oceanic and Atmospheric Administration (NOAA), through the National Oceanographic Partnership Program) was to provide a clear, consistent process for regulators and industry to follow when designing environmental baseline

and post-installation monitoring studies for proposed wave, tidal and offshore wind projects along the U.S. West Coast in order to reduce time and uncertainty associated with project development. The project provides a step-wise approach to identify monitoring protocols, and used cast studies of real and hypothetical ocean renewable energy projects as the proof of concept for the project and to test the framework's utility.

The three case studies used were commercial-scale projects. The wave case study was based on a proposed project under development off Reedsport, Oregon, using 10 Ocean Power Technologies PowerBuoys®. The tidal case study was based on a pilot-scale tidal project under development in Admiralty Inlet, Puget Sound, Washington, two six-meter OpenHydro turbines; for the case study a hypothetical commercial scale deployment of 20-40 10-meter turbines was used. The offshore wind energy case study was based on a hypothetical project using a commercial build-out of 25 Principle Power WindFloat® wind turbines offshore of Humboldt Bay, California, near a site that had been considered for a wave energy project.

H. T. Harvey participated as part of a larger team led by Pacific Energy Ventures that included agencies, universities, national laboratories, and consultants to prepare the framework; HTH then applied the framework to the offshore wind power case study. The information derived from applying the protocols framework can help to inform future projects and will begin to provide a useful record of investigating and resolving environmental issues associated with ocean energy development. Report link: http://mhk.pnnl.gov/wiki/images/7/73/PEV_2012.pdf

Pacific Marine Energy Center - South Energy Test Site, Northwest National Marine Renewable Energy Center, Oregon State University—Oregon

Oregon State University (OSU) is seeking a 25-year original license from the Federal Energy Regulatory Commission (FERC), and a research lease from the Bureau of Ocean Energy Management, for the development of the Pacific Marine Energy Center - South Energy Test Site (PMEC-SETS), a proposed grid-connected wave energy test facility to be located approximately 6.5 nautical miles off the coast of Newport, Oregon. OSU would construct and operate this offshore test site composed of four test berths that could collectively support the testing of up to 20 Wave Energy Converters (WECs), and associated moorings, anchors, subsea connectors, subsea power and communication cables, and onshore facilities. PMEC-SETS would occupy up to 2 square nautical miles in federal waters about 6.5 nautical miles off the coast of Newport, Oregon. Water depths at PMEC-SETS range from 65 to 78 m (MLLW) and OSU expects various types/designs of deep water WECs to be tested at the site. However, because this is a test site, the exact types and configurations of WECs within berths is not known, making permitting challenging.

In collaboration with HDR Engineering, Inc. and Pacific Energy Ventures, H. T. Harvey & Associates is developing the National Environmental Policy Act (NEPA) and Endangered Species Act (ESA) permitting documents for the PMEC-SETS, including the NEPA Environmental Assessment for potential impacts of the project on marine and terrestrial biological resources, and the Biological Assessment and Essential Fish Habitat (EFH) documents for potential effects on ESA-listed species and EFH under the Magnuson-Stevens Fishery Conservation and Management Act. H. T. Harvey & Associates is also developing the Bird and Bat Conservation Strategy to address potential impacts to migratory birds and bats under the Migratory Bird Treaty Act, and the Habitat Mitigation Plan for addressing terrestrial impacts associated with the cable landing site, terrestrial cables, and a utility connection and monitoring facility.

H. T. Harvey & Associates is also involved in a collaborative process (FERC's Alternative Licensing Process, with FERC and BOEM) with federal and state agencies and non-governmental organizations to help identify and understand their environmental concerns, provide scientific support to address uncertainties, and ensure that key regulatory and environmental considerations are satisfied for both the state and federal agencies through environmental studies, best management practices, mitigation, and adaptive management. We are working with faculty and scientists at OSU to develop focused study plans to evaluate specific issues of concern where there is environmental uncertainty and potential risk to resources under an adaptive management framework. The draft license application was filed April 20, 2018.

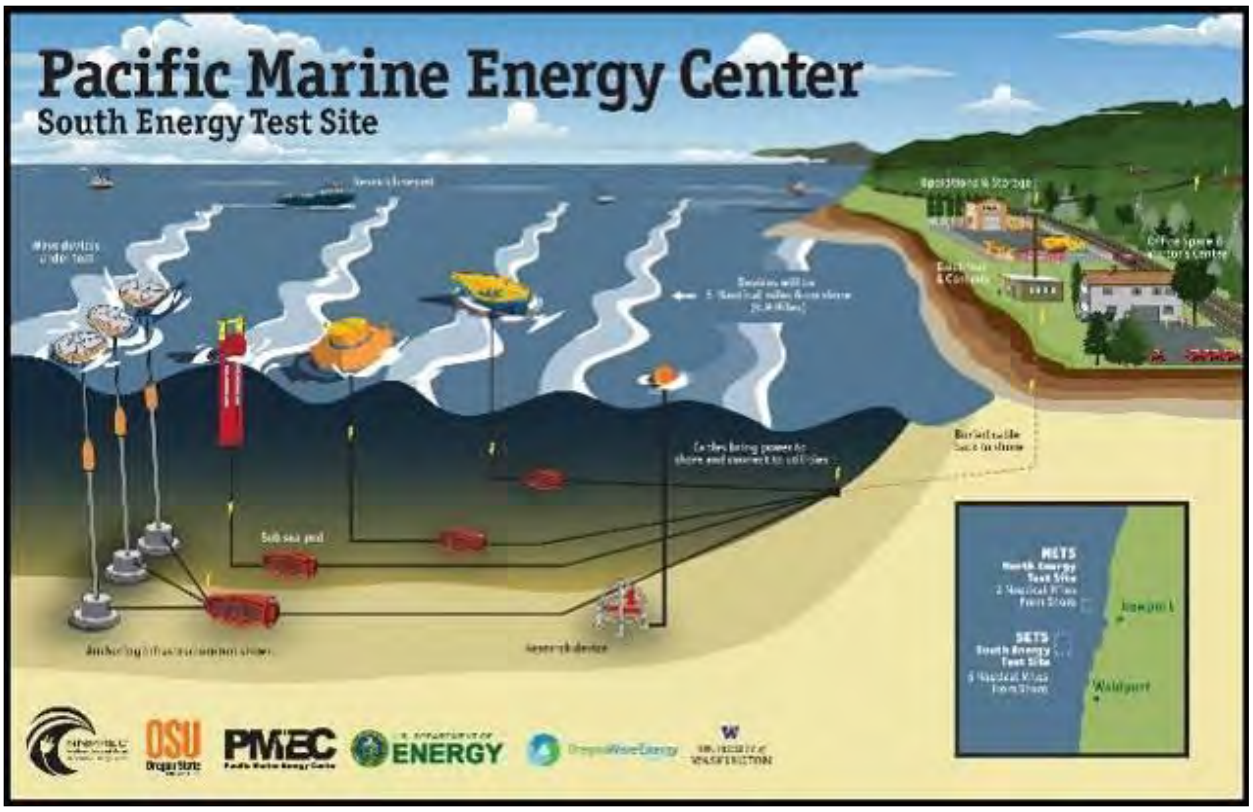


Image from: http://nnmrec.oregonstate.edu/facilities/pmec-sets

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Legal structure	Corporation
Years in Business	48
Average personnel in 2017	76

HERRERA ENVIRONMENTAL CONSULTANTS INC (Consultant)

Founded in 1980, Herrera's interdisciplinary teams of scientists, engineers, planners, and regulatory specialists offers exceptional experience and specific insight into the requirements for leasing and developing floating offshore wind projects in marine environments. From our five offices in the West, Herrera's employee-owner staff works with local businesses, municipalities, utilities, government agencies, Tribes, and non-profits to arrive at solutions that streamline the regulatory process, protect the environment, and result in economically viable projects.

Starting in 2012, Herrera has supported clients navigating the BOEM process for most of the proposed offshore facilities on the west coast, including up to 1,400 megawatts of offshore wind generation in 3 states, including Oregon (2013-2015), Hawaii (2015), and California (2015 – ongoing). Herrera offers a team of qualified staff ideally suited to address key challenges facing ocean energy development, from facility planning and leasing, stakeholder engagement, environmental impact analysis, and regulatory compliance and permitting, to construction and post-installation monitoring.

Our modest size makes our firm efficient, approachable, and highly dedicated to successful projects that optimize both infrastructure and environmental requirements. Herrera offers the following services for the development, construction, and operational phases of offshore energy projects:

Planning and Analysis for Site Selection

- Constraints analysis and desktop studies
- Mapping and GIS
- Lease block siting and selection
- Public and stakeholder outreach strategies and support

OCS Leasing

- Unsolicited OCS commercial wind-lease request applications
- Site Assessment Plan (SAP) development
- Site characterization studies and site investigation reports
- Construction and Operations Plan development
- Agency interaction and coordination

Site Assessment / Environmental Studies

- NEPA/CEQA documentation
- Marine, coastal, and estuarine biological and ecological resource studies
- Marine geomorphology and coastal processes
- Threatened and endangered species assessments and surveys
- Biological and ecological monitoring plans
- Avian and bat surveys
- Marine mammal surveys
- Sea turtle surveys
- Fish & habitat studies

- Biological and ecological mitigation, reclamation, and restoration
- Wetland, wildlife, and upland ecological resource studies
- Socioeconomic and recreational and commercial use assessments
- Visual impact assessment and simulation
- Hazardous Materials Management
- Spill prevention, containment, and countermeasure plans
- Sediment management and analyses
- Oil spill response plans
- Oceanographic, hydrographic, geophysical surveys and assessments
- Bathymetric survey
- Hydrologic, hydraulic, and water quality modeling
- Geographic Information Systems (GIS)
- Public/agency involvement and community relations

Design and Engineering Support

- Coastal and shoreline planning and engineering
- Facility planning and site civil engineering
- Horizontal Directional Drilling (HDD) support
- Facility design report support
- Fabrication and installation report support

Permitting and Regulatory Compliance

- NEPA/CEQA compliance
- Permit strategy development
- Federal, state, and local permit applications and coordination
- Biological Assessments / Endangered Species Act (ESA) compliance
- Migratory Bird Treaty Act (MBTA) compliance
- Federal Energy Regulatory Commission (FERC) compliance
- Agency interaction and negotiation / public engagement

Construction and Operation

- Installation and Post-installation environmental resource monitoring

Herrera Key Personnel

Phil Coughlan, Principal Environmental Planner

Phil has over 25 years of experience as an environmental planner and project manager with strong analytical, problem solving, and communications skills. His background includes sustainable projects by public agency and private proponents, leading teams of scientists, planners, and engineers in project planning, siting, development of regulatory compliance documentation, permit applications and technical support analyses, and drafting and finalizing NEPA EISs and EAs. He has an excellent knowledge of federal, state, and local environmental laws and regulations. Phil leads Herrera's renewable energy team, and has extensive experience with the BOEM leasing process; he acted as Herrera's project manager for the WindFloat Pacific offshore wind demonstration project in Oregon, the Morro Bay offshore wind project in California, and South Coast Oahu offshore wind development project in Hawaii. Phil's

skills add extensively to Herrera's success in assessing local, state and federal regulatory processes, and obtaining approvals. He succeeds in managing multiple projects simultaneously, meeting demanding project milestones, and working within budget constraints. Phil provides project management and technical guidance for a variety of other sustainable projects, including transit, transportation, and utility infrastructure, solid waste and recycling facilities and programs, and eco-manufacturing facilities., as well as for strategic and long-range planning efforts. Phil also provides clients with expertise in strategic project planning, project development, economic and financial analysis, economic modeling, lifecycle analysis, and specialized market research.

Jeff Parsons, Ph.D., PE, Principal Ocean Engineer

Jeff Parsons is an ocean engineer with 19 years of both applied and research experience in engineering, oceanography and geophysics. Dr. Parsons has a diverse interdisciplinary background in civil engineering, geology, and physical oceanography. He has applied his expertise in both the academic and professional consulting fields, conducting basic research on the seabed, and contributing scientific input to planning and design processes. His basic research experience includes shipboard measurements of marine bathymetry and current patterns, ROV operations, low-tide beach surveys and numerical and laboratory analysis and modeling. His knowledge of the underlying processes sculpting the Northeast Pacific seabed, coupled with specific knowledge of regional coastal processes and tidal dynamics makes him ideally qualified to assist with the sighting and development of ocean energy facilities. Dr. Parsons worked supported Herrera's efforts with Principle Power in preparing portions of the unsolicited lease application and COP particular to physical oceanography, meteorology, and geology. He also provided input to geophysical survey data interpretation and impact analysis. In his role as a researcher and professor at the University of Washington School of Oceanography Dr. Parsons participated in the development and maintenance of a merged bathymetric/terrestrial digital elevation model (DEM) of Puget Sound, which has become a critical resource for studies of regional geomorphic, hydrologic and oceanographic processes. This DEM is currently the only one of its kind. Dr. Parsons' expertise in the area of longshore drift and marine sediment transport is directly pertinent to the studies and analyses necessary to connect ocean energy projects to the terrestrial grid. His own research on the formation of marine turbidity currents from muddy river discharge (hyperpycnal plumes) is widely considered a seminal work in the field. Dr. Parsons maintains an affiliate assistant professorship at the School of Oceanography and Department of Civil and Environmental Engineering, affording him complete knowledge of and access to the intellectual resources, data, and modeling capabilities of this world class research institution.

Kristina Gifford, Senior Environmental Planner

Kristina Gifford has more than 25 years of experience in environmental impact assessment, regulatory compliance, and permitting for infrastructure, transportation, and energy projects at the federal, state, and local levels. She is an expert in the National Environmental Policy Act (NEPA) process and has written NEPA documents—including technical reports, environmental assessments, and environmental impact statements—for numerous federal agencies. Her experience includes preparing documentation for the WindFloat Pacific offshore wind demonstration project in Oregon, including the unsolicited lease application under BOEM's process, third-party EA for BOEM, and contributing to preparation of the draft Construction and Operations Plan (COP) for the project. She has assisted clients throughout planning processes – from scoping to final decision – as a project manager, technical advisor, and lead author. She has worked with and prepared documents and applications for numerous local, state, and

federal agencies in accordance with their specific standards and guidelines. With her combined land use and environmental background, Kristina is thoroughly familiar with the various regulations, processes, and permits (as well as public controversy) that may come into play for a proposed action and has coordinated closely with jurisdictional agencies and other interests to move things forward in a responsible manner. She has worked with public, private, and tribal clients. Her experience also includes preparing applications for a variety of land use actions.

George Ritchotte, Senior Wildlife Biologist

George Ritchotte is a biologist specializing in technical and regulatory issues for endangered species, aquatic resources, and construction compliance. He has over 25 years of experience performing habitat assessments and wildlife surveys, and ensuring compliance with federal, state, and local environmental regulations. His work history includes nearly ten years as a Biology Lead for the Washington State Department of transportation MegaProjects and Northwest Region offices as well as Washington State Ferries. He is a certified marine mammal observer and marbled murrelet (*Brachyramphus marmoratus*) monitor as well as a Seattle Audubon Master Birder with over 20 years of professional birding experience. He has developed migratory bird management plans, and conducted nest surveys and nest observations to guarantee compliance with the Migratory Bird Treaty Act. George has led the permitting strategy for large projects including Individual and Nationwide permits from the US Army Corps of Engineers for Section 404 of the Clean Water Act (CWA), as well as individual permits and letters of verification from the Washington State Department of Ecology (Ecology) for Section 401 of the CWA. George provided technical oversight for the Biological Assessment, biological resource sections of the third-party EA, Avian and Bat Conservation Plan, and Marine Mammal and Sea Turtle Monitoring Plan for the WindFloat Pacific offshore wind demonstration project in order to ensure compliance with ESA, NEPA, MBTA, and MMPA, respectively.

Sample Projects

WindFloat Pacific Offshore Wind Demonstration Project I Coos Bay, OR

Herrera was part of an interdisciplinary team led by Principle Power, Inc. proposing to install a 30-megawatt wind energy facility approximately 18 nautical miles off the Pacific Coast near Coos Bay, Oregon. The offshore wind turbines would be placed on patented, floating foundations (WindFloat), which eliminate the need for seabed-disturbing foundation structures and can be sited to avoid conflicts with other marine uses. It was the first offshore wind energy project proposed along the West Coast of North America and the second proposed offshore wind project in the US to use floating foundations. The US Department of Energy (DOE) selected the project to receive a $4 million grant as part of DOE's program to encourage Advanced Technology Demonstration Projects, which use innovative methods of developing renewable energy sources.

Herrera and the PPI team conducted numerous studies of the offshore environment to inform project leasing, design, permitting, and construction. During the initial phases of the project, Herrera prepared the unsolicited Outer Continental Shelf (OCS) lease application to the Bureau of Ocean Energy Management (BOEM), supported public outreach, engaged with local, state, and federal agencies with jurisdiction to pre-plan the team's compliance and permitting approach, and prepared a report for DOE that explained the environmental studies and permitting processes needed for project development. Subsequently, Herrera led preparation of a third-party Environmental Assessment documenting environmental resources in the project area (including offshore, nearshore, and terrestrial) and potential effects of the WindFloat Pacific project on those resources. The document supported the National Environmental Policy Act

(NEPA) process and informed the NEPA environmental assessment to be prepared by BOEM, the lead federal agency. Herrera also prepared a Biological Assessment, Avian and Bat Conservation Plan, and Marine Mammal and Sea Turtle Monitoring Plan to support compliance with the Endangered Species Act (ESA), the Migratory Bird Treaty Act (MBTA), and the Marine Mammal Protection Act (MMPA), respectively.

As part of the BOEM approval process, Herrera authored sections and coordinated and synthesized work from all areas of the PPI team to prepare and submit a draft Construction and Operations Plan (COP). The COP included project information, a summary of site investigations completed, a construction plan, an operations and maintenance plan, a conceptual decommissioning plan, a summary of environmental impacts and mitigations, a description of the regulatory framework, and financial assurances. Additionally, as part of the COP, Herrera prepared a draft Oil Spill Response Plan and the aforementioned biological monitoring plans, BA, and NEPA document. Appendices included the additional required documentation prepared by the team and incorporated into the document by Herrera, including a draft Safety Management System, draft Navigational Safety Risk Assessment, draft Terrestrial Archaeological Reports, and the CVA nomination.

During the BOEM process and ongoing project development work, Herrera continued to support public meetings in and near Coos Bay to inform the community of ongoing project activities. And, in concert with project partners, continued communications with numerous local, state, and federal agencies to facilitate formal consultation and initiate permitting processes.

Morro Bay California Offshore Wind Development I Morro Bay, CA

Herrera worked in partnership with Trident Winds to prepare and submit an unsolicited lease application for a commercial lease from the Bureau of Ocean Energy Management (BOEM) offshore of Morro Bay, CA in conformance with BOEM's Renewable Energy Regulatory Framework (30 Code of Federal Regulations [CFR] 585). The lease is intended to support development of up to a 1,000 MW wind farm. For site planning and selection offshore, Herrera mapped sensitive ecological and biological resources, commercial users, fisheries, bathymetry, protected ocean areas, and wind resources to identify appropriate lease blocks to minimize conflicts while still meeting project commercial goals. Herrera prepared OCS block maps showing the requested lease area and supplied GIS shapefiles to BOEM.

Herrera prepared summaries of the energy resources and environmental conditions offshore of Morro Bay, including for marine geology; marine biological resources (avian species, benthic habitat, coral reefs, fish species and essential fish habitat, marine mammals, listed threatened and endangered species); physical oceanography and meteorology; geology; air quality; water quality; noise and visual resources; marine transportation and commerce; military and coast guard operations; airspace utilization – civilian and military; commercial and recreational fishing; cultural and historic resources; tourism and recreation; socioeconomics and environmental justice; public services, infrastructure, and utilities; artificial reefs; and natural hazards, hazardous materials, offshore dump sites, and unexploded ordinance.

Herrera also supported public meetings conducted by Trident Winds with the Morro Bay and surrounding community by preparing suitable maps and displays showing ecological and biological resources, commercial users, fisheries, bathymetry, protected ocean areas, and wind resources to help explain the potential project. In addition, Herrera attended a workshop held with Trident Winds, and staff and leadership from NOAA and BOEM to discuss potential effects on the Monterey Bay National Marine Sanctuary. The project is awaiting a determination from

BOEM on the competitive status of the project and the appropriate leasing mechanism to move forward.

South Coast of Oahu Offshore Wind Project Development I Oahu, HI

Herrera worked in partnership with Progression Energy to prepare and submit an unsolicited lease application for a commercial lease from the Bureau of Ocean Energy Management (BOEM) offshore of the south coast of Oahu, Hawaii in conformance with BOEM's Renewable Energy Regulatory Framework (30 Code of Federal Regulations [CFR] 585). Herrera mapped sensitive ecological and biological resources, commercial users, fisheries, bathymetry, protected ocean areas, and wind resources to support the initial environmental conditions assessment in the lease applications. Herrera also prepared OCS block maps showing the requested lease area and supplied GIS shapefiles to BOEM.

Blanket Purchase Agreement (BPA) with National Marine Fisheries Service (NMFS) of the Oceanic and Atmospheric Administration (NOAA) I Northwest Region

Herrera assisted the National Marine Fisheries Service (NMFS) of the Oceanic and Atmospheric Administration (NOAA) with the achievement of its primary mission, which is the stewardship of living marine resources through science-based conservation and management and the promotion of healthy ecosystems. Fulfilling this mission requires complex balancing of diverse public needs and interests with sustainable management of coastal and marine ecosystems; ensuring that the public dollars available are used wisely where they will have the most positive impact; and bringing the best available science to the decision-making process in a way that is defensible to the environmental community and readily explainable to the public. Herrera partnered with the NMFS and NOAA in achieving this mission through a blanket purchase Agreement (BPA) to provide project based scientific and technical support services. To this end, Herrera provided high quality staff to NMFS for short and long-term assignments in the areas of Endangered Species Act Compliance, fisheries, ecology, economic, marine mammal preservation, fish passage engineering, hydrology, and technical editing and writing. Under this contract, Herrera provided technical support with staff located at NMFS' offices in Washington (Seattle, Ellensburg, and Lacey), Oregon (Portland and LaGrande), and Idaho (Boise).

Contact

Key contact name for further information	Phil Coughlan
Address of Firm	2200 Sixth Avenue, Suite 1100 Seattle, WA 98121
Telephone number	206.441.9080
Fax number	206.441.9108
Contact telephone number and mobile number	206-787-8242, mobile 253.686.1910
Contact email address	pcoughlan@herrerainc.com
Legal structure	Corporation
Years in Business	38
Average personnel in 2017	80

DOCUMENTATION OF BUSINESS RELATIONSHIPS

Please see Appendices D, E, and F

H. T. HARVEY & ASSOCIATES
Ecological Consultants

September 4, 2018

Mr. Matthew Marshall – Executive Director, Redwood Coast Energy Authority
633 3rd Street
Eureka, CA 95501

Subject: Letter of Commitment for the Redwood Coast Offshore Wind Project

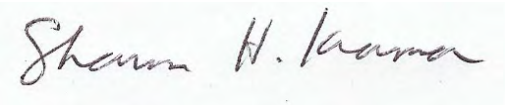
Dear Mr. Marshall:

H. T. Harvey & Associates is pleased to submit this letter of commitment for the Redwood Coast Energy Authority (RCEA) consortium's Redwood Coast Offshore Wind Project. Our expertise will assist this effort for Humboldt County to develop local sources of renewable energy. We have expertise in marine and terrestrial ecology relevant to permitting, licensing, leases, and environmental studies and monitoring needed for west coast marine and hydrokinetic projects including PG&E's Humboldt WaveConnect, Ocean Power Technology's Reedsport Wave Energy Park, and Oregon State University's Pacific Marine Energy Center-South Energy Test Site (now PacWave). In addition, we were members of a team, led by Pacific Energy Ventures and funded by DOE and BOEM, to develop a West Coast framework for baseline and effects monitoring protocols for offshore renewable energy projects, with team members including Pacific Northwest National Laboratory and Oregon State University. Our role was to work with the team to develop the framework and then use the framework on a test case. H. T. Harvey & Associates used the framework on a hypothetical Principle Power floating offshore wind project off Humboldt County. We continue to work on marine renewable energy projects along the west coast, through DOE and BOEM-funded research grants as well as with project developers. Our role would be to utilize this expertise and understanding of the local community, stakeholders, agencies, and marine and terrestrial environment, to contribute as a valuable member of the RCEA team.

In commitment to the success of this endeavor, H. T. Harvey & Associates will: 1) serve as a member of the RCEA project team for the Redwood Coast Offshore Wind Project; 2) actively participate in technical tasks associated with permitting, leasing, and developing and conducting environmental studies and research; and 3) Dr. Sharon Kramer will be responsible for coordinating this effort and collaborating with other team members and agencies and organizations participating in the effort.

Thank you very much for including H. T. Harvey & Associates as a member of your team in this exciting effort.

Sincerely,



Sharon Kramer, Ph.D.
Principal, Fish Ecologist
e-mail: skramer@harveyecology.com
Phone: (707) 822-4141 ext 101
Mobile: (707) 845-4248

HERRERA

September 4, 2018

Mr. Mathew Marshall
Executive Director
Redwood Coast Energy Authority
633 3rd Street
Eureka, California 95501

Subject: Commitment to the Redwood Coast Offshore Wind Project

Dear Mr. Marshall:

On behalf of Herrera, I am pleased to confirm our commitment to the Redwood Coast Energy Authority (RCEA) and project partners for the Redwood Coast Offshore Wind Project. The project represents an outstanding opportunity to meet your vision for locally-produced and community-controlled renewable energy, and to accelerate coastal economic development through an emergent offshore renewable energy industry for the benefit of the community.

We are excited for the opportunity to work with RCEA, the other project partners and technical specialists to successfully develop a project offshore of Humboldt County. In particular, we are committed and have full capacity and technical capability to participate in project planning, stakeholder and agency engagement, leasing activities, environmental studies and impact analysis, regulatory compliance and permitting, and to supporting the team where appropriate.

We believe our history of working through the BOEM process on several other west coast offshore wind proposals, and our history of evaluating, documenting, and mitigating marine and terrestrial environmental effects of these and other infrastructure projects will add significant value to the team and the RCEA partnership.

Sincerely,

Herrera Environmental Consultants, Inc.

Philip C. Coughlan

Philip C. Coughlan
Vice President

Email: pcoughlan@herrerainc.com
Direct: (206) 787-8242; Mobile: (253) 686-1910

APPENDIX C: DOCUMENTATION DESCRIBING APPLICANT'S FINANCIAL QUALIFICATIONS

REDWOOD COAST ENERGY AUTHORITY
(Applicant and Project Partner)

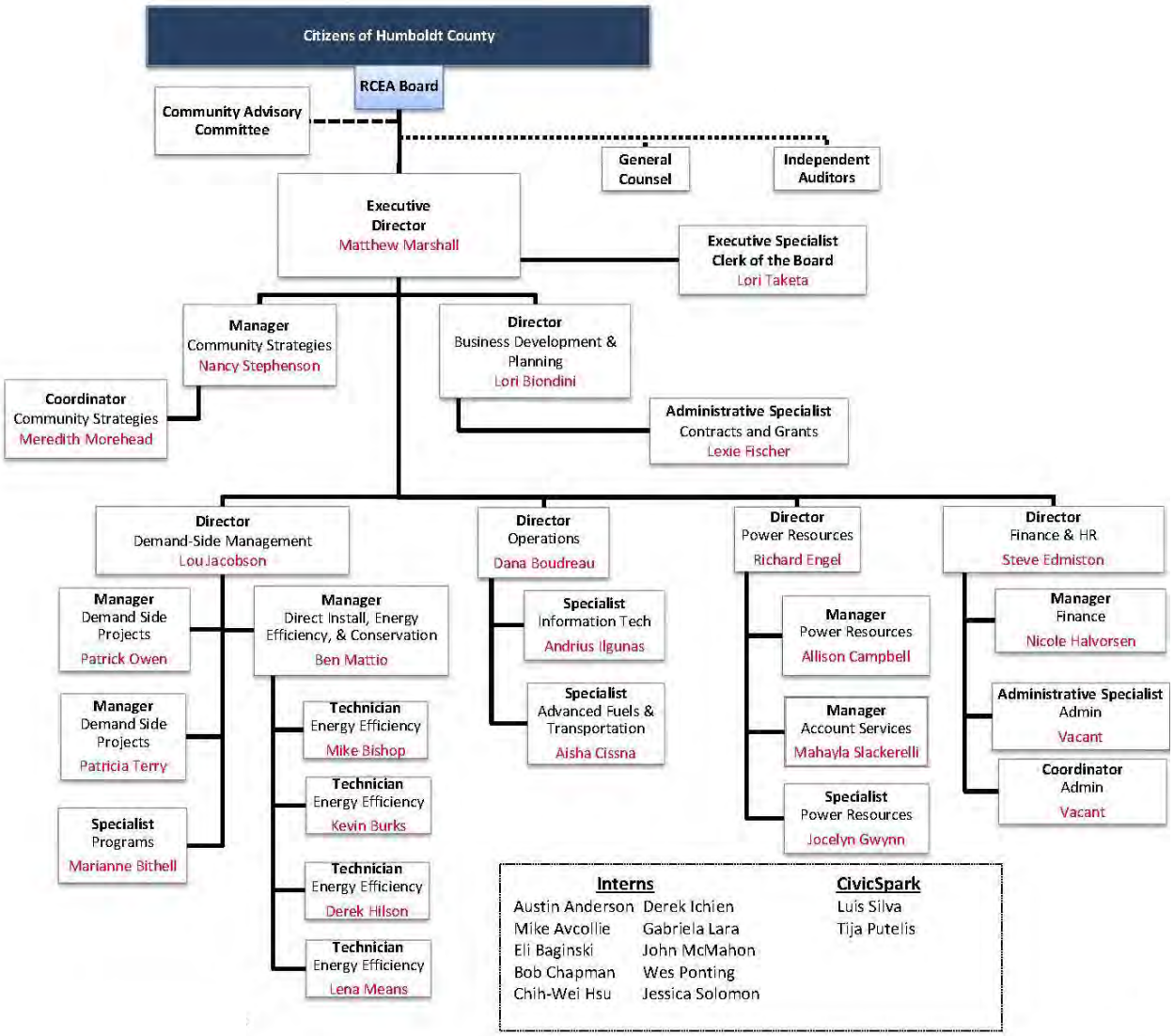
Name of Firm	Redwood Coast Energy Authority (RCEA)
Location of Firm	633 3rd Street, Eureka, CA 95501
Telephone number	(707) 269-1700
Key contact name for further information	Mathew Marshall
Contact telephone numbers	
Contact email address	mmarshall@redwoodenergy.org
Description of Business Entity	
Entity No.	
Company website	https://redwoodenergy.org/
Corporate (Legal) structure	Local government joint powers agency
Incorporation Date	2003
Years in Operation	15
Average personnel in 2017	34

Company Profile

Redwood Coast Energy Authority is a local government joint powers agency with member agencies consisting of the County of Humboldt, the Cities of Arcata, Blue Lake, Eureka, Ferndale, Fortuna, Rio Dell, Trinidad and the Humboldt Bay Municipal Water District. Formed in 2003, RCEA's mission is to develop and implement sustainable energy initiatives that reduce energy demand, increase energy efficiency, and advance the use of clean, efficient and renewable resources available in the region. Relating to the local development of floating offshore wind energy, RCEA's 2003 Joint Powers Agreement includes specific goals to:

- Lead, coordinate and integrate regional efforts that advance secure, sustainable, clean and affordable energy resources.
- Support research, development, demonstration, innovation, and commercialization of sustainable energy technologies by public and private entities operating in Humboldt County.
- The Humboldt County General Plan designates RCEA as the regional energy authority with the responsibility to coordinate and facilitate countywide strategic energy planning and implementation.

Corporate Structure (Organization Chart)



Bank References

Umpqua Bank (since 2011)
Scott Vides, Universal Associate
701 5th Street, Eureka, 95501

Current Audited Financial Statement

Please see the attached financial statements in Appendix G.

PRINCIPLE POWER, INC.
(Project Partner)

Name of Firm	Principle Power, Inc.
Location of Firm	5901 Christie Ave. Suite 303, Emeryville, CA 94608, USA.
Telephone number	510 280 5180
Key contact name for further information	Antoine Peiffer
Contact telephone numbers	
Contact email address	apeiffer@principlepowerinc.com
Description of Business Entity	
Entity No.	E0706352007-5
Company website	http://www.principlepowerinc.com
Corporate (Legal) structure	Domestic Corporation registered under the law of State Nevada
Incorporation Date	October 2007
Years in Operation	11 years
Average personnel in 2017	33

Principle Power Inc. is the parent company of 3 wholly owned subsidiaries. Those subsidiaries are:

1. Principle Power France, SARL – in France
2. Principle Power (Europe) Limited – in the UK
3. Principle Power Portugal Unipessoal Lda – in Portugal

Company Profile

Principle Power is an innovative developer, technology and services provider for the offshore wind energy market. Our leading, proven and patented technology, the WindFloat – a floating wind turbine foundation – provides access to transitional (40-60 meters) and deep-water (over 60 meters) sites, globally – by offering an enabling technology for the development of the OFW industry as whole and opening new deep-water markets.

EDPR OFFSHORE NORTH AMERICA LLC
(Project Partner)

Name of Firm	EDPR Offshore North America LLC
Location of Firm	c/o EDP Renewables North America LLC 808 Travis Street Houston, TX 77002
Telephone number	713 265-0350
Key contact name for further information	Enrique Alvarez-Uria or Leslie A. Freiman
Contact telephone numbers	857 225 6722 or 713-265-0252
Contact email address	enrique.alvarez-uria@edpr.com legalnotices@edpr.com
Description of Business Entity	
Entity No.	15074
Company website	https://www.edprnorthamerica.com/
Corporate (Legal) structure	Limited Liability Company
Incorporation Date	November 16, 2017
Years in Operation	1 Year (7 Years for EDPR NA; 11 Years for EDPR)
Average personnel in 2017	1200 for EDPR and 500 for EDPR NA

Company Profile

EDPR North America LLC (EDPR NA) is a wholly owned subsidiary of EDPR that develops, constructs, owns, and operates wind and solar renewable energy projects throughout the U.S. EDPR NA is based in Houston, Texas, with over 500 employees and regional offices in New York, Oregon, Illinois, and Massachusetts. EDPR NA's rigorous approach has led to the successful development of more than 5GW of renewable energy facilities located in the U.S., and the company has demonstrated a proven ability to successfully navigate complicated land, interconnection and permitting environments in order to achieve commercial operations for its projects.

EDPR NA's operational assets, 44 wind farms and 4 solar parks, are spread across 13 U.S. states, one Mexican state and one Canadian province, making EDPR NA the 4th largest owner of renewable energy in the United States. EDPR NA is an industry leader in operational reliability: with nearly 3,000 turbines in operation and drawing on over 120 million turbine-hours of operational history, EDPR NA is able to maintain over 97% availability fleet-wide. EDPR NA is also actively developing a portfolio of more than 10,000 MW of additional renewable energy assets in over fifteen states in the U.S.

AKER SOLUTIONS (PROJECT PARTNER)

Name of Firm	Aker Solutions Inc.
Location of Firm	3010 Briarpark Dr., 77042 Houston, TX
Telephone number	713 270-2436
Key contact name for further information	Jonah Margulis
Contact telephone numbers	+1 713 270-2436
Contact email address	Jonah.margulis@akersolutions.com
Description of Business Entity	
Entity No.	
Company website	http://www.Akersolutions.com
Corporate (Legal) structure	C Corporation; Incorporated under the laws of the State of Delaware, United States of America
Incorporation Date	1998 (in business since then, US branch)
Years in Operation	17 years (US branch, overall company history dating 177 years back)
Average personnel in 2017	~14,000 (incl. all branches globally)

Company Profile

Aker Solutions Inc. is headquartered in Houston, Texas and is a wholly owned subsidiary of Aker Solutions ASA, a Norwegian founded company with offices across the globe and a history encompassing a variety of industries over the last 177 years. The company is a central player in a wide range of industries, including ship building, hydro-power, oil and gas, wave power and bottom fixed offshore wind jackets. The modern capabilities and offerings of Aker Solutions were developed from the combination of two premier industrial Norwegian companies, Aker and Kvaerner, both with significant activities supplying the offshore oil and gas industry with equipment and engineering and construction services. This phase of the company started with the first commercial oil discovery in the North Sea in 1969 and the two companies combined in 2002, forming Aker Kvaerner, which in 2008 was renamed to Aker Solutions. Aker Solutions is currently represented in 20 different countries, 52 locations, and counts approximately 14,000 employees.

APPENDIX D: MEMORANDUM OF UNDERSTANDING WITH HUMBOLDT FISHERMEN'S MARKETING ASSOCIATION

MEMORANDUM OF UNDERSTANDING
BETWEEN
THE REDWOOD COAST ENERGY AUTHORITY
AND
THE HUMBOLDT FISHERMEN'S MARKETING ASSOCIATION

This Memorandum is entered into this 31st day of August, 2018 ("Effective Date"), by and between:

1. REDWOOD COAST ENERGY AUTHORITY ("RCEA"), a California Joint Powers Authority, having an office at 633 3rd Street, Eureka, CA, 95501, whose members include the County of Humboldt, the Cities of Arcata, Blue Lake, Eureka, Ferndale, Fortuna, Rio Dell, and Trinidad, and the Humboldt Bay Municipal Water District; and

2. HUMBOLDT FISHERMEN'S MARKETING ASSOCIATION, INC. ("HFMA"), a California nonprofit corporation, having an office at 3 Commercial Street, Eureka, CA 95501.

RCEA and HFMA are referred to herein either in singular as "Party" or in plural as the "Parties."

PREAMBLE:

By creating access to economically priced renewable energy, renewable resource diversification, and enhanced economic activity in coastal areas, floating offshore wind energy development represents tremendous opportunity for the State of California. This is especially true of Humboldt County, where the wind resource offshore is particularly strong and Humboldt Bay is endowed with characteristics that make it well suited for harbor investment and utilization to support the deployment of offshore wind power systems.

The North Coast region is also home to a commercial fishing industry that provides sustainably-caught seafood to our community and many others. For many generations these commercial fisheries have provided a livelihood for local fishermen and their families, and it continues to be a key element of our region's economy and local culture.

The Parties recognize that a viable commercial fishing industry is integral to the economy and culture of the North Coast and that the development of offshore wind energy will permanently impact the commercial fishing industry economically and culturally. They recognize that such development should be pursued in a manner that minimizes and mitigates impacts to fishing so that both endeavors can sustainably coexist for the benefit of our community.

AGREEMENT

The Parties agree to cooperate and work together in good faith for the purpose of ensuring that the efforts of RCEA and its project partners to develop a floating offshore wind energy project off the coast of Humboldt County proceed in a way that effectively identifies, avoids, minimizes, and mitigates impacts to the commercial fishing industry to the greatest extent possible. As part of this agreement, the Parties agree to work together:

1. To maintain open and honest communication and to inform the other Party in a timely fashion of relevant developments that could affect or impact the goals of this agreement;
2. To identify and evaluate any potential impacts to commercial fishing interests associated with the offshore wind project's development, operation, and decommissioning, and to take reasonable steps to avoid and minimize those impacts;
3. To work together and with RCEA's development partners to negotiate a future agreement and/or processes to address and mitigate any impacts that cannot be avoided in ways that, to the extent possible, fairly consider the needs of all local fishmen (not just those that are currently members of HFMA), including the identification and stipulation of a sufficient permanent source of funding for such an agreement and/or process;
4. To seek out and cooperate as appropriate on mutually beneficial grant or public funding opportunities (such as for harbor infrastructure improvements) that are consistent with the goals of this agreement;
5. To coordinate and cooperate with state and other relevant officials in ways that advance the goals of this agreement;
6. To identify and reasonably address the additional needs of either party that may arise during the offshore wind project development process.

This Memorandum does not establish a joint venture, partnership, or business unit of any kind between the Parties, nor does it necessarily create a financial or subsequent legal obligation on behalf of either Party. Further, the Memorandum does not grant or create an exclusive right to negotiate between RCEA and HFMA; and either party is free to negotiate or explore similar agreements with other persons and entities.

GOVERNING LAW

The substantive laws of the State of California shall govern this agreement and any questions concerning its validity, construction or performance, without regard to the conflicts of laws provisions thereof. The Parties agree to submit to the non-exclusive jurisdiction of the courts in California in relation to any dispute arising out of or in connection with this Agreement, whether based in contract, tort (including negligence) or otherwise.

TERM

This Agreement shall commence on the Effective Date and terminate on the first to occur of any of the following events: (a) the passage of five years from the Effective Date; (b) the Parties mutual agreement to terminate this Agreement; (c) the Parties mutual agreement to supersede this Agreement with another form of legal agreement; (d) if either Party is placed into liquidation, bankruptcy, administration, receivership or any similar process; or (e) by material breach of a Party.

Signed (date): 8/31/18

Humboldt Fishermen's Marketing Association	Redwood Coast Energy Authority
Harrison Ibach, President	Matthew Marshall, Executive Director
3 Commercial Street	633 3rd Street
Eureka, CA 95501	Eureka, CA 95501

APPENDIX F: LETTERS AND INDICATIONS OF COMMUNITY SUPPORT

Letters and indications of community support are contained herein:

1. Baykeeper
2. Blue Lake Rancheria Tribe
3. Building & Construction Trades Council of Humboldt and Del Norte Counties
4. California Community Choice Association
5. City of Eureka, Council Resolution
6. County of Humboldt Board of Supervisors
7. County of Humboldt Board of Supervisors Resolution
8. County of Humboldt, Staff Report
9. Environmental Protection Information Center (EPIC)
10. Friends of the Dunes
11. Greater Eureka Chamber of Commerce
12. HSU Marine Laboratory, Humboldt State University
13. Humboldt Bay Harbor, Recreation and Conservation District
14. U.S. Representative Jared Huffman, California 2nd District
15. Laborers' International Union of North America, Local 324
16. North Group Sierra Club
17. Operating Engineers Local Union No. 3
18. Pacific Ocean Energy Trust (POET)
19. Redwood Region Economic Development Commission
20. Schatz Energy Research Center (SERC), Humboldt State University
21. Surfrider Foundation, Humboldt Chapter
22. The Northcoast Environmental Center
23. Trinidad Coastal Land Trust
24. United Brotherhood of Carpenters and Joiners of America Local Union No. 751

North Coast Journal Article
Additional Articles

Sept. 7, 2018

Ms. Jean Thurston, Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management, Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010
Jean.Thurston@boem.gov

Dear Ms. Thurston,

On behalf of Humboldt Baykeeper's board, staff, and members, I am writing to express our appreciation for Redwood Coast Energy Authority's (RCEA) community-based approach to exploring an area off the coast of Humboldt County for wind energy production. Humboldt Baykeeper works to safeguard our coastal resources for the health, enjoyment, and economic strength of the Humboldt Bay community, and is a member of the California Coastkeeper Alliance and the international Waterkeeper Alliance.

Humboldt Baykeeper supports California's movement toward renewable energy to reduce greenhouse gas emissions from fossil fuels. We believe that RCEA's Redwood Coast Offshore Wind consortium is well-situated to investigate this opportunity while thoroughly vetting the proposal. This thorough vetting is critical to its success, and will require prioritizing community values, protecting the environment, and developing strategies to avoid or mitigate impacts to fisheries and fishermen.

Our region faces many challenges due to climate change. Rising sea levels and changing ocean conditions caused by greenhouse gas emissions are making coastal communities like ours vulnerable to catastrophic events, making the shift to clean energy sources even more urgent. We are interested in the effort to explore Humboldt County's contribution to the renewable energy industry, but we want to ensure that our coastal environment is protected for habitat values as well as economic benefits of commercial, recreational, and subsistence fisheries. To this end, a local renewable energy industry must be driven by local governance, as embodied by RCEA, a local government Joint Powers Authority.

Mailing Address: 600 F Street, Suite 3 #810
Office: 415 I Street, Arcata, CA 95521
(707) 499-3678
www.humboldtbaykeeper.org

WATERKEEPER® ALLIANCE MEMBER

RCEA has actively engaged the community to inform and gather input on the benefits, challenges, and scope of a project of this scale and what it would mean for the County. They have demonstrated their commitment to focus on community benefits by engaging local stakeholders to select the consortium that will complete the application and research. This community-first approach is consistent with the work RCEA has done in the past, and we appreciate their inclusion of Humboldt Baykeeper in various stakeholder processes regarding energy issues and environmental concerns.

We look forward to continued meetings with RCEA as the project moves forward to proactively address potential impacts and a broad range of community perspectives.

We encourage BOEM to consider the unique position of Redwood Coast Offshore Wind's lease application in a community with numerous strong grassroots organizations that will follow this project closely over the course of its research and development.

Thank you for your consideration.

Sincerely,

__s/_____

Jennifer Kalt, Director
jkalt@humboldtbaykeeper.org
(707) 499-3678

BLUE LAKE RANCHERIA
P.O. Box 428
Blue Lake, CA 95525

Office: (707) 668-5101
Fax: (707) 668-4272

www.bluelakerancheria-nsn.gov

August 30, 2018

Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010
Jean.Thurston@boem.gov

Dear Ms. Thurston,

On behalf of the Blue Lake Rancheria, a federally recognized Native American tribal government ("Tribe"), I am writing to state the Tribe's support for Redwood Coast Energy Authority's (RCEA) community approach to exploring areas offshore from Humboldt County for wind energy production.

California and the nation face serious challenges due to climate change. The Tribe supports the statewide transition to decarbonized energy to reverse climate change. Recent catastrophic events (e.g., wildfire, landslides, sea level rise) create greater urgency for a rapid shift to zero-carbon energy.

RCEA's consortium of Redwood Coast Offshore Wind partners is well-positioned to investigate the offshore wind opportunity while prioritizing the community's needs and local environmental quality. The Tribe is interested in the effort to explore Humboldt County's contribution to the new floating offshore wind energy industry, and views offshore wind as having the potential to generate power and simultaneously preserve the natural beauty and diversity of our coastal environment, and the critical regional economics (e.g., tourism, mariculture) that rely on the Pacific Ocean ecosystem.

To this end, a local renewable energy industry must be driven by local governance. RCEA is a joint powers authority that has actively engaged the community to provide information on the benefits, challenges, and scope of a large-scale wind project. They have further demonstrated their commitment to local benefits by engaging local stakeholders to select a consortium to complete the lease application and research. RCEA has a long track record of this type of community-centric approach.

The Tribe looks forward to continued collaboration with RCEA as the project moves forward to proactively address potential impacts and differing community perspectives. The Tribe encourages BOEM to consider the grassroots support behind Redwood Coast Offshore Wind's lease application. Thank you for your consideration.

Sincerely,

Jana Ganion
Director of Sustainability and Government Affairs

Attn: Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010
Jean.Thurston@boem.gov

Dear Ms. Thurston,

The Building and Construction Trades Council of Humboldt and Del Norte Counties would like to express their support for Redwood Coast Energy Authority (RCEA)'s offshore wind energy lease application and exploratory efforts to develop a project off the coast of Humboldt County. The North Coast is an ideal location for a project of this scale, with the Humboldt Bay as the potential hub of a modern energy industry.

The wind speeds off our coastline are some of the strongest and most consistent in the nation. Not only is this resource viable for energy production, but the harbor infrastructure and port facilities can be revitalized to support its development. The investment in a large offshore wind project would be a boon to the regional economy if local labor and community benefits are emphasized by the project developers. With RCEA's involvement in the process, we feel confident that these attributes will be prioritized much more so than if they were not leading the project.

RCEA has engaged our Union in their offshore wind scoping process, along with many other important stakeholder groups such as fishermen and the Harbor District. We have a clear understanding of what this could mean for our region, and the potential benefits and challenges that could arise from it. RCEA has a robust track record when it comes to energy initiatives in the community and we support the approach they've taken with this project. They assembled a technical advisory group comprised of local stakeholders to select the consortium of project developers, which is sure to result in a successful partnership.

We encourage BOEM to consider the merits of strong community support behind the Redwood Coast Offshore Wind lease application, and to process it in a swift and unsolicited fashion.

Sincerely,

Jeff Hunerlach

Jeff Hunerlach, Secretary-Treasurer
Building & Construction Trades Council of Humboldt and Del Norte Counties.
1330 Bayshore Way, Suite 103, Eureka, CA. 95501 707-443-7329

August 30, 2018

Attn: Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010
Jean.Thurston@boem.gov

Dear Ms. Thurston,

This letter is in support of Redwood Coast Energy Authority (RCEA) and their consortium of Redwood Coast Offshore Wind partners in their efforts to obtain a lease to develop an area off the coast of Humboldt County for wind energy production. California Community Choice Association (CalCCA) is a proponent of developing clean energy industries in communities throughout California that bring increased job opportunities, economic development, and renewable energy to the area.

CalCCA is an active supporter of California's effort to address climate change by setting ambitious renewable energy goals, reducing dependence on foreign energy sources, and lowering statewide greenhouse gas emissions. We are a collective of eighteen locally-run Community Choice Aggregators (CCAs), who are each exceeding the State's carbon reduction goals, while prioritizing the unique needs of their communities. A project of this scale would be a valuable contribution to the electrical grid, as it complements the generation profile of solar energy with morning and evening electricity supply.

Not only does the Humboldt coast have some of the highest wind speeds in the nation, but it has pre-existing harbor infrastructure that could support an offshore wind industry. RCEA's member agencies and local industry partners are capable of coordinating, developing, and supporting the needs of this new development, including preparing a capable workforce. A clean technology industry in Humboldt County not only favors local labor in the near future, but it also gives future generations the opportunity to work in a sustaining field that will provide skilled, well-paying jobs going forward.

Renewable energy development will play a key role in Humboldt County's future, and CalCCA supports RCEA leading the way. The organization has a robust track record when it comes to local energy initiatives and has been working for months to educate and unite their community in support of offshore wind. We encourage BOEM to swiftly process Redwood Coast Offshore Wind's unsolicited lease application for the area submitted.

Thank you for your consideration.

Sincerely,

Beth Vaughan
Executive Director

California Community Choice Association
2300 Clayton Road, Suite 1150, Concord, CA 94520 | 415-464-6189 | **cal-cca.org**

RESOLUTION NO. 2018-41
OF THE CITY OF EUREKA

IN SUPPORT OF THE REDWOOD COAST ENERGY AUTHORITY
OFFSHORE WIND LEASE APPLICATION

WHEREAS, the State of California has adopted aggressive greenhouse gas reduction goals with the objective of developing new renewable energy resources; and

WHEREAS, the Humboldt Bay region has the potential to foster a new renewable energy industry, with a viable wind resource and existing harbor infrastructure to support it; and

WHEREAS, Redwood Coast Energy Authority (RCEA) has shown leadership in establishing and successfully operating a Community Choice Energy program that now provides affordable electricity to over 90% of the county's residents and businesses; and

WHEREAS, the City of Eureka supports RCEA's exploration of an offshore wind project off the coast of Humboldt County; and

WHEREAS, RCEA has selected a consortium of partners, which plans to submit a lease application for a selected offshore area to the Bureau of Ocean Energy Management (BOEM) for possible wind energy development; and

WHEREAS, development of the Humboldt coast's wind resource has the potential to create numerous local skilled jobs and associated economic activity; and

WHEREAS, the location of the envisioned wind project twenty or more miles from shore would minimize any potential negative visual impact; and

WHEREAS, preliminary data shows that the daily cycle of offshore wind, which peaks during evening hours, matches energy load patterns and is complementary to daytime solar generation; and

WHEREAS, many community stakeholders engaged thus far by RCEA have expressed enthusiasm for offshore wind development; and

WHEREAS, the BOEM offshore wind lease application would be bolstered with an endorsement letter from the City of Eureka.

NOW, THEREFORE, BE IT RESOLVED, that the Eureka City Council hereby elects to submit a letter to BOEM in support of the Redwood Coast Offshore Wind lease application.

RESOLUTION NO. 2018-

PASSED, APPROVED AND ADOPTED by the City Council of the City of Eureka in the County of Humboldt, State of California, on the 4th day of September, 2018 by the following vote:

AYES: COUNCILMEMBERS BRADY, MESSNER, BERGEL, ALLISON, ARROYO
NOES: COUNCILMEMBERS
ABSENT: COUNCILMEMBERS

_____
Frank J. Jäger, Mayor of the City of Eureka

Attest:

_____
Pamela J. Powell, City Clerk

Approved as to Administration:

_____
Greg L. Sparks, City Manager

Approved as to form:

_____
Robert Black, City Attorney

APPENDIX A

LETTER OF SUPPORT FOR REDWOOD COAST ENERGY AUTHORITY OFFSHORE WIND LEASE APPLICATION

CITY OF EUREKA
531 K Street
Eureka, California
95501-1146

Ph (707) 441-4144

Attn: Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010
Jean.Thurston@boem.gov

Dear Ms. Thurston,

This letter is in support of Redwood Coast Energy Authority (RCEA) and their Redwood Coast Offshore Wind consortium, in their effort to obtain a lease to develop an area off the coast of Humboldt County for wind energy production. The Eureka City Council supports taking advantage of the world-class wind resource off our coast and utilizing the existing Humboldt Bay harbor infrastructure for a clean energy industry.

Not only does the Humboldt County coast have some of the highest wind speeds in the nation, but it has ample, under-utilized harbor properties ready for deployment. Our local government and industry leaders are capable of coordinating, developing, and supporting the needs of this new industry, including preparing a capable workforce. A clean technology industry in Humboldt County not only favors local labor in the near future, but it also gives future generations the opportunity to work in a sustaining field that will provide skilled, well-paying jobs going forward.

RCEA has engaged local stakeholders in the offshore wind scoping process, which has given us a clear understanding of the potential benefits, challenges, and scale of this project. If the waters off our coastline are now the focus of wind energy developers worldwide, then we want RCEA to lead the effort in developing that resource. The organization's track record has shown that they prioritize our community's needs and seek to preserve the environmental quality of our coastline. They built their consortium on input from a community review board, so we feel well-represented by the partners involved.

We encourage BOEM to swiftly process Redwood Coast Offshore Wind's unsolicited lease application for the area submitted. Thank you for your consideration.

Sincerely,

Frank Jager
Mayor
City of Eureka

BOARD OF SUPERVISORS
COUNTY OF HUMBOLDT
825 5TH STREET, ROOM 111
EUREKA, CALIFORNIA 95501 PHONE: (707) 476-2390

August 28, 2018

Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010

Dear Ms. Thurston:

On behalf of the Humboldt County Board of Supervisors, I am writing in support of Redwood Coast Energy Authority (RCEA) and their consortium of Redwood Coast Offshore Wind partners in their efforts to obtain a lease to develop an area off the Coast of Humboldt County for wind energy production. Humboldt County is a proponent of developing a local clean energy industry that would bring increased job opportunities, economic development, and renewable energy for our homes and businesses.

We support California's effort to address climate change by setting ambitious renewable energy goals, reducing dependence on foreign energy sources, and lowering statewide greenhouse gas emissions. Rising sea levels are making coastal communities like ours more vulnerable to catastrophic events that result from the changing climate. These realities make a project of this scale imperative to our current energy transition.

Renewable energy development will play a key role in Humboldt County's future, and we support RCEA leading the way. The organization has a robust record of accomplishment when it comes to local energy initiatives and has been working for months to educate and unite our community in support of offshore wind. We appreciate local partners who make thoughtful, collaborative decisions and who prioritize the needs of the community, as RCEA has done in the past. The consortium they selected to investigate this project was built upon input from local advisors who focused on how this would benefit our community.

We encourage BOEM to swiftly process Redwood Coast Offshore Wind's unsolicited lease application for the area submitted. Thank you for your consideration.

Sincerely,

Ryan Sundberg, Chair
Humboldt County Board of Supervisors

RS:kh

BOARD OF SUPERVISORS, COUNTY OF HUMBOLDT, STATE OF CALIFORNIA
Certified copy of portion of proceedings, Meeting of August 28, 2018

RESOLUTION NO. 18-88

RESOLUTION OF THE HUMBOLDT COUNTY BOARD OF SUPERVISORS IN SUPPORT OF THE REDWOOD COAST ENERGY AUTHORITY OFFSHORE WIND LEASE APPLICATION

WHEREAS, the State of California has adopted aggressive greenhouse gas reduction goals with the objective of developing new renewable energy resources; and

WHEREAS, the Humboldt Bay region has the potential to foster a new renewable energy industry, with a viable wind resource and existing harbor infrastructure to support it; and

WHEREAS, Redwood Coast Energy Authority (RCEA) has shown leadership in establishing and successfully operating a Community Choice Energy program that now provides affordable electricity to over 90% of the county's residents and businesses; and

WHEREAS, the Humboldt County Board of Supervisors supports RCEA's exploration of an offshore wind project off the coast of Humboldt County; and

WHEREAS, RCEA has selected a consortium of partners, which plans to submit a lease application for a selected offshore area to the Bureau of Ocean Energy Management (BOEM) for possible wind energy development; and

WHEREAS, development of the Humboldt coast's wind resource has the potential to create numerous local skilled jobs and associated economic activity; and

WHEREAS, the location of the envisioned wind project twenty or more miles from shore would minimize any potential negative visual impact; and

WHEREAS, preliminary data shows that the daily cycle of offshore wind, which peaks during evening hours, matches energy load patterns and is complementary to daytime solar generation; and

WHEREAS, many community stakeholders engaged thus far by RCEA have expressed enthusiasm for offshore wind development; and

WHEREAS, the BOEM offshore wind lease application would be bolstered with an endorsement letter from the Humboldt County Board of Supervisors.

NOW, THEREFORE, BE IT RESOLVED, that the Humboldt County Board of Supervisors hereby elects to submit a letter to BOEM in support of the Redwood Coast Offshore Wind lease application.

BOARD OF SUPERVISORS, COUNTY OF HUMBOLDT, STATE OF CALIFORNIA
Certified copy of portion of proceedings, Meeting of August 28, 2018

RESOLUTION NO. 18-88

Dated: August 28, 2018

Ryan Sundberg, Chair
Humboldt County Board of Supervisors

Adopted on motion by Supervisor Fennell, seconded by Supervisor Bass, and the following vote:

AYES:	Supervisors	Bohn, Fennell, Bass, Sundberg
NAYS:	Supervisors	--
ABSENT:	Supervisors	Wilson
ABSTAIN:	Supervisors	--

STATE OF CALIFORNIA)
County of Humboldt)

I, KATHY HAYES, Clerk of the Board of Supervisors, County of Humboldt, State of California, do hereby certify the foregoing to be an original made in the above-entitled matter by said Board of Supervisors at a meeting held in Eureka, California.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Seal of said Board of Supervisors.

The within instrument is a full, true and correct copy of the original on file in this office.
ATTEST:
KATHY HAYES
Clerk of the Board of Supervisors of the County of Humboldt, State of California
By Ryan Sharp, Deputy

By Ryan Sharp
Deputy Clerk of the Board of Supervisors of the County of Humboldt, State of California

COUNTY OF HUMBOLDT

For the meeting of: 8/28/2018

File #: 18-1113

To: Board of Supervisors

From: Supervisor Estelle Fennell

SUBJECT:
Resolution and Letter in Support of the Redwood Coast Energy Authority (RCEA) Offshore Wind Lease Application (Supervisor Estelle Fennell)

RECOMMENDATION(S):
That the Board of Supervisors authorize the Chair to sign the Resolution and Letter of Support.

SOURCE OF FUNDING:
N/A

DISCUSSION:
Redwood Coast Energy Authority (RCEA), along with their consortium Redwood Coast Offshore Wind partners have asked the Board of Supervisors for a resolution and letter in support of their efforts to obtain a lease to develop an area off the coast of Humboldt County for wind energy production.

Humboldt County is a proponent of developing a local clean energy industry in support of California's efforts to address climate change by setting ambitious renewable energy goals, and which brings increased job opportunities, economic development, and renewable energy for homes and businesses.

FINANCIAL IMPACT:
N/A

OTHER AGENCY INVOLVEMENT:
Redwood Coast Energy Authority.

ALTERNATIVES TO STAFF RECOMMENDATIONS:
Board discretion

ATTACHMENTS:
Resolution and Letter of Support.

PREVIOUS ACTION/REFERRAL:
Board Order No.: N/A
Meeting of: N/A

Keeping Northwest California Wild Since 1977

August 28, 2018

Attn: Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010
Jean.Thurston@boem.gov

Dear Ms. Thurston,

On behalf of the Environmental Protection Information Center (EPIC), please accept this letter expressing our appreciation for Redwood Coast Energy Authority's (RCEA) community-based approach to exploring an area off the coast of Humboldt County for wind energy production. EPIC supports the statewide movement toward renewable energy, and acknowledges that RCEA's Redwood Coast Offshore Wind consortium is well-situated to investigate this opportunity while prioritizing the community's needs and local environmental quality.

California faces many challenges due to climate change. Rising sea levels are making coastal communities like ours more vulnerable to catastrophic events, making our shift to clean energy sources even more urgent. We are interested in the effort to explore Humboldt County's contribution to the new energy industry, but we want to ensure that the natural beauty and diversity of our coastal environment is preserved. To this end, a local renewable energy industry must be driven by local governance.

RCEA has actively engaged the community to inform us of the benefits, challenges, and scope of a project of this scale and what it would mean for the County. They have demonstrated their commitment to focus on community benefits by engaging local stakeholders to select the consortium that will complete the application and research. This community-first approach is consistent with the work RCEA has done in the past.

We look forward to continued meetings with RCEA as the project moves forward to proactively address potential impacts and differing community perspectives. We encourage BOEM to consider the grassroots support behind Redwood Coast Offshore Wind's lease application. Thank you for your consideration.

Sincerely,

Thomas Wheeler

Thomas Wheeler
Executive Director
Environmental Protection Information Center (EPIC)

Attn: Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010
Jean.Thurston@boem.gov

Dear Ms. Thurston,

We are writing to express our appreciation for Redwood Coast Energy Authority's (RCEA) community-based approach to exploring an area off the coast of Humboldt County for wind energy production. Friends of the Dunes supports the statewide movement toward renewable energy, and acknowledges that RCEA's consortium of Redwood Coast Offshore Wind partners is well-situated to investigate this opportunity while prioritizing the community's needs and local environmental quality.

California faces many challenges due to climate change. Rising sea levels are making coastal communities like ours more vulnerable to catastrophic events, making our shift to clean energy sources even more urgent. We are interested in the effort to explore Humboldt County's contribution to the new energy industry, but we want to ensure that the natural beauty and diversity of our coastal environment is preserved. To this end, a local renewable energy industry must be driven by local governance.

RCEA has actively engaged the community to inform us of the benefits, challenges, and scope of a project of this scale and what it would mean for the County. They have demonstrated their commitment to focus on community benefits by engaging local stakeholders to select the consortium that will complete the application and research. This community-first approach is consistent with the work RCEA has done in the past.

We look forward to continued meetings with RCEA as the project moves forward to proactively address potential impacts and differing community perspectives. We encourage BOEM to consider the grassroots support behind Redwood Coast Offshore Wind's lease application. Thank you for your consideration.

Sincerely,

Suzie Fortner
Interim Executive Director
Friends of the Dunes

P.O. BOX 186 ARCATA, CA 95518 • Phone 707-444-1397
Fax 707-444-0447 • E-mail info@friendsofthedunes.org • www.friendsofthedunes.org

Eureka
The Greater Eureka Chamber of Commerce

August 27, 2018

Ms. Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010

RE: LETTER OF SUPPORT – REDWOOD COAST ENERGY AUTHORITY LEASE APPLICATION

Dear Ms. Thurston:

On behalf of the Board of Directors and members of the Greater Eureka Chamber of Commerce, I am writing to convey our support of the Redwood Coast Energy Authority (RCEA) and their Redwood Coast Offshore Wind consortium, in their effort to obtain a lease to develop an area off the coast of Humboldt County for wind energy production. The Greater Eureka Chamber of Commerce supports taking advantage of the world-class wind resource off our coast and utilizing the existing Humboldt Bay harbor infrastructure for a clean energy industry.

Not only does the Humboldt County coast have some of the highest wind speeds in the nation, but it has ample, under-utilized harbor properties ready for deployment. Our local government and industry leaders are capable of coordinating, developing, and supporting the needs of this new industry, including preparing a capable workforce. A clean technology industry in Humboldt County not only favors local labor in the near future, but it also gives future generations the opportunity to work in a sustaining field that will provide skilled, well-paying jobs going forward.

RCEA has engaged local stakeholders in the offshore wind scoping process, which has given us a clear understanding of the potential benefits, challenges, and scale of this project. If the waters off our coastline are now the focus of wind energy developers worldwide, then we want RCEA to lead the effort in developing that resource. The organization's track record has shown that they prioritize our community's needs and seek to preserve the environmental quality of our coastline. They built their consortium on input from a community review board, so we feel well-represented by the partners involved.

We encourage BOEM to swiftly process Redwood Coast Offshore Wind's unsolicited lease application for the area submitted. Thank you for your consideration.

Sincerely,

Donna Wright
Executive Director

HUMBOLDT STATE UNIVERSITY
HSU Marine Laboratory

Aug. 27, 2018

Attn: Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010

Dear Ms. Thurston,

This letter is in support of Redwood Coast Energy Authority (RCEA) and their consortium of Redwood Coast Offshore Wind partners in their efforts to obtain a lease to develop an area off the coast of Humboldt County for wind energy production. Humboldt State University's Marine and Coastal Science Institute is a proponent of developing a local clean energy industry that would bring increased job opportunities, economic development, and renewable energy for our homes and businesses.

Humboldt State University's Marine and Coastal Science Institute supports California's effort to address climate change by setting ambitious renewable energy goals, reducing dependence on foreign energy sources, and lowering statewide greenhouse gas emissions. Rising sea levels are making coastal communities like ours more vulnerable to catastrophic events that result from the changing climate. These realities make a project of this scale imperative to our current energy transition.

Not only does the Humboldt County coast have some of the highest wind speeds in the nation, but it has ample, under-utilized harbor properties ready for deployment. Our local government and industry leaders are capable of coordinating, developing, and supporting the needs of this new industry, including preparing a capable workforce. A clean technology industry in Humboldt County not only favors local labor in the near future, but it also gives future generations the opportunity to work in a sustaining field that will provide skilled, well-paying jobs.

Renewable energy development will play a key role in Humboldt County's future, and we support RCEA leading the way. The organization has a robust track record when it comes to local energy initiatives and has been working for months to educate and unite our community in support of offshore wind. We appreciate local partners who make thoughtful, collaborative decisions and who prioritize the needs of the community, as RCEA has done in the past. The consortium they selected to investigate this project was built upon input from local advisors who focused on how this would benefit our community.

We encourage BOEM to swiftly process Redwood Coast Offshore Wind's unsolicited lease application for the area submitted. Thank you for your consideration.

Sincerely,

Brian Tissot, Ph.D.
Director and Professor, Marine Laboratory, Humboldt State University
Tissot@humboldt.edu

Humboldt Bay
Harbor, Recreation and Conservation District
(707) 443-0801
P.O. Box 1030
Eureka, California 95502-1030

Jean Thurston, Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010

August 31, 2018

Dear Ms. Thurston,

This letter is in support of Redwood Coast Energy Authority (RCEA) and their Redwood Coast Offshore Wind consortium, in their effort to obtain a lease to develop an area off the coast of Humboldt County for wind energy production. The Humboldt Bay Harbor, Recreation and Conservation District supports taking advantage of the world-class wind resource off our coast and utilizing the existing harbor infrastructure for a clean energy industry. We look forward to participating in the CEQA/NEPA review process to ensure that the potential impacts do not negatively impact the environment, commercial fisherman, shipping, and other maritime industries without proper mitigation.

Not only does the Humboldt County coast have some of the highest wind speeds in the nation, but it has ample, under-utilized harbor properties ready for deployment. Our local government and industry leaders are capable of coordinating, developing, and supporting the needs of this new industry, including preparing a capable workforce. A clean technology industry in Humboldt County not only favors local labor in the near future, but it also gives future generations the opportunity to work in a sustaining field that will provide skilled, well-paying jobs going forward.

RCEA has engaged local stakeholders in the offshore wind scoping process, which has given us a clear understanding of the potential benefits, challenges, and scale of this project. If the waters off our coastline are now the focus of wind energy developers worldwide, then we want RCEA to lead the effort in developing that resource. The organization's track record has shown that they prioritize our community's needs and seek to preserve the environmental quality of our coastline. They built their consortium on input from a community review board, so we feel well-represented by the partners involved.

We encourage BOEM to swiftly process Redwood Coast Offshore Wind's unsolicited lease application for the area submitted. Thank you for your consideration.

Sincerely,

Larry Oetker
Executive Director
Humboldt Bay Harbor, Recreation and Conservation District

JARED HUFFMAN
2ND DISTRICT, CALIFORNIA

COMMITTEE ON NATURAL RESOURCES
WATER, POWER, AND OCEANS – RANKING MEMBER
FEDERAL LANDS

COMMITTEE ON TRANSPORTATION AND INFRASTRUCTURE
HIGHWAYS AND TRANSIT
WATER RESOURCES AND ENVIRONMENT

Congress of the United States
House of Representatives
Washington, DC 20515–0502

WASHINGTON OFFICE
1406 LONGWORTH HOUSE OFFICE BUILDING
WASHINGTON, DC 20515
PHONE: (202) 225-5161
FAX: (202) 225-5163

WEBSITE: huffman.house.gov

September 10, 2018

Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010

Dear Ms. Thurston:

I am writing in support of Redwood Coast Energy Authority (RCEA) and its Redwood Coast Offshore Wind consortium's application for a lease to develop an area off the coast of Humboldt County for wind energy production.

California's North Coast has some of the highest wind speeds in the nation. Humboldt Bay, located in the northern part of my congressional district, has ample, under-utilized harbor properties ready to support a project of this scale. Local government and industry leaders are capable of coordinating, developing, and supporting the needs of this new industry, including preparing a capable workforce. A new clean technology industry not only favors local labor in the near future, but also gives future generations the opportunity to work in a field that will provide skilled, well-paying jobs.

Most importantly, Redwood Coast Offshore Wind has proactively engaged the community in their project development process through public meetings and good-faith discussions with various stakeholders. The consortium values the region's coastal resources and economy and is working with environmental and commercial fishing groups and local government on appropriate project siting and mitigation prior to submitting its application.

Redwood Coast Offshore Wind's proposed project would bring increased job opportunities, economic development, and renewable energy to Humboldt Bay and our state. I ask that you give its application your full and fair consideration. If you have any questions, please call my Eureka District Office at (707) 407-3585.

Sincerely,

JARED HUFFMAN
Member of Congress

SAN RAFAEL
999 FIFTH AVENUE, SUITE 290
SAN RAFAEL, CA 94901
PHONE: (415) 258-9657
FAX: (415) 258-9913

PETALUMA
206 G STREET, #3
PETALUMA, CA 94952
PHONE: (707) 981-8967
FAX: (415) 258-9913

UKIAH
559 LOW GAP ROAD
UKIAH, CA 95482
PHONE & FAX: (707) 671-7449

FORT BRAGG
430 NORTH FRANKLIN STREET
P.O. BOX 2208
FORT BRAGG, CA 95437
PHONE: (707) 962-0933
FAX: (707) 962-0905

EUREKA
317 THIRD STREET, SUITE 1
EUREKA, CA 95501
PHONE: (707) 407-3585
FAX: (707) 407-3559

LABORERS' INTERNATIONAL UNION of NORTH AMERICA, Local 324

KEITH Le MOINE

Business Manager/Secretary/Treasurer

Jean Thurston, Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010
Jean.Thurston@boem.gov

Dear Ms. Thurston,

This letter is in support of Redwood Coast Energy Authority (RCEA) and their consortium of Redwood Coast Offshore Wind partners, in their effort to obtain a lease to develop an area off the coast of Humboldt County for wind energy production. Laborers' International Union of North America supports taking advantage of the world-class wind resource off our coast and utilizing the existing Humboldt Bay harbor infrastructure for a clean energy industry.

Not only does the Humboldt County coast have some of the highest wind speeds in the nation, but it has ample, under-utilized harbor properties ready for deployment. Our local government and industry leaders are capable of coordinating, developing, and supporting the needs of this new industry, including preparing a capable workforce. A clean technology industry in Humboldt County not only favors local labor in the near future, but it also gives future generations the opportunity to work in a sustaining field that will provide skilled, well-paying jobs going forward.

RCEA has engaged local stakeholders in the process of selecting their consortium, which has given us a clear understanding of the potential benefits, challenges, and scale of this project. If the waters off our coastline are now the focus of wind energy developers worldwide, then we want RCEA to lead the effort in developing that resource. The organization's track record has shown that they prioritize our community's needs and seek to preserve the environmental quality of our coastline. They built their consortium on input from a community review board, so we feel well-represented by the partners involved.

We encourage BOEM to swiftly process Redwood Coast Offshore Wind's unsolicited lease application for the area submitted. Thank you for your consideration.

Sincerely,

Keith LeMoine
Business Manager / Secretary Treasurer
Laborers Local 324

Antioch Office
1005 Fitzuren Road
Antioch, CA 94509
(925) 522-0006 Office
(925) 522-0008 Fax

Martinez Main Office
611 Berrellesa Street
Martinez, CA 94553
(925) 228-0930 Office
(925) 370-1586 Fax

Richmond Office
101 South 12th Street
Richmond, CA 94804
(510) 234-1069 Office
(510) 234-0932 Fax

Santa Rosa Office
81 Barham Ave/PO Box 5438
Santa Rosa, CA 95402
(707) 542-1107 Office
(707) 542-6113 Fax

Fairfield Office
4727 Mangels Blvd
Fairfield, CA 94534
(707) 643-7214 Office
(707) 643-3047 Fax

Attn: Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010

Dear Ms. Thurston,

This letter is in support of Redwood Coast Energy Authority (RCEA) and their Redwood Coast Offshore Wind consortium in their efforts to obtain a lease to develop an area off the coast of Humboldt County for wind energy production. Humboldt County's local chapter of the Sierra Club, the North Group, is aligned with the national organization in that we are proponents of developing local clean energy industries that would bring increased job opportunities, economic development, and renewable energy for our homes and businesses.
The North Group Sierra Club supports California's effort to address climate change by setting ambitious renewable energy goals, reducing dependence on foreign energy sources, and lowering statewide greenhouse gas emissions. Rising sea levels are making coastal communities like ours more vulnerable to catastrophic events that result from the changing climate. These realities make a project of this scale imperative to our current energy transition.

Not only does the Humboldt County coast have some of the highest wind speeds in the nation, but it has ample, under-utilized harbor properties ready for deployment. Our local government and industry leaders are capable of coordinating, developing, and supporting the needs of this new industry, including preparing a capable workforce. A clean technology industry in Humboldt County not only favors local labor in the near future, but it also gives future generations the opportunity to work in a sustaining field that will provide skilled, well-paying jobs. Renewable energy development will play a key role in Humboldt County's future, and we support RCEA leading the way. The organization has a robust track record when it comes to local energy initiatives and has been working for months to educate and unite our community in support of offshore wind. We appreciate local partners who make thoughtful, collaborative decisions and who prioritize the needs of the community, as RCEA has done in the past. The consortium they selected to investigate this project was built upon input from local advisors who focused on how this would benefit our community.
We encourage BOEM to swiftly process Redwood Coast Offshore Wind's unsolicited lease application for the area submitted. Thank you for your consideration.

Sincerely,

Gregg Gold

Gregg Gold, Ph.D.
Chair, North Group Sierra Club

OPERATING ENGINEERS LOCAL UNION NO. 3

1330 BAYSHORE WAY, SUITE #103, EUREKA, CA 95501 · (707) 443-7328 · FAX (707) 443-9238

Jurisdiction: Northern California, Northern Nevada, Utah, Hawaii, and the Mid-Pacific Islands

Attn: Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010
Jean.Thurston@boem.gov

Dear Ms. Thurston,

This letter is in support of Redwood Coast Energy Authority (RCEA) and their Redwood Coast Offshore Wind consortium, in their effort to obtain a lease to develop an area off the coast of Humboldt County for wind energy production. The Operating Engineers Local Union No. 3 supports taking advantage of the world-class wind resource off our coast and utilizing the existing Humboldt Bay harbor infrastructure for a clean energy industry.

Not only does the Humboldt County coast have some of the highest wind speeds in the nation, but it has ample, under-utilized harbor properties ready for deployment. Our local government and industry leaders are capable of coordinating, developing, and supporting the needs of this new industry, including preparing a capable workforce. A clean technology industry in Humboldt County not only favors local labor in the near future, but it also gives future generations the opportunity to work in a sustaining field that will provide skilled, well-paying jobs going forward.

RCEA has engaged local stakeholders in the offshore wind scoping process, which has given us a clear understanding of the potential benefits, challenges, and scale of this project. If the waters off our coastline are now the focus of wind energy developers worldwide, then we want RCEA to lead the effort in developing that resource. The organization's track record has shown that they prioritize our community's needs and seek to preserve the environmental quality of our coastline. They built their consortium on input from a community review board, so we feel well-represented by the partners involved.

We encourage BOEM to swiftly process Redwood Coast Offshore Wind's unsolicited lease application for the area submitted. Thank you for your consideration.

Sincerely,

Jeff Hunerlach

Jeff Hunerlach, District Representative

240 N Broadway, Suite102, Portland, OR 97227

August 30, 2018

RE: Support Letter for RCEA

Dear Jean,

On behalf of the Pacific Ocean Energy Trust, I am pleased to offer this letter of support for the floating offshore wind project proposed by the Redwood Coast Energy Authority and the Principle Power, Inc. consortium. This formidable coalition will help ensure that this project is responsible and successful.

For the past ten years, the Pacific Ocean Energy Trust, and its predecessor, the Oregon Wave Energy Trust, have strived to promote the responsible development of marine renewable energy. The RCEA project is the epitome of the holistic approach necessary to a successful project.

The imperative to add clean energy generation to energize our society cannot be overstated, and this project will help California meet its energy and carbon goals. Not only will this project help open the door to cost effective, clean, and reliable power for California and Humboldt County, it will also provide important secondary benefits. Diverse energy generation, locally generated and proximate to load, helps ensure grid stability, reduces costs and impacts from transmission, and helps reduce environmental impacts of energy projects that inordinately affect poor rural and urban communities.

Renewable energy development will also play a key role in promoting economic development for California. Local energy projects equate to local economic benefits. RCEA clearly recognizes these various benefits, which justifies the significant effort and investment necessary to achieve these goals.

POET also wishes to congratulate the Bureau of Ocean Energy Management on its leadership and proactivity in assessing the opportunities of floating offshore wind. Responsibly development floating offshore wind has tremendous potential to benefit the people of California and beyond.

Sincerely,

Jason Busch
Executive Director

Redwood Region Economic Development Commission
Prosperity Center 520 E Street, Eureka, California 95501
Phone 707.445.9651 Fax 707.445.9652 www.rredc.com

August 27, 2018

Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010

Dear Ms. Thurston,

I am writing this letter on behalf of the Board of Directors of the Redwood Region Economic Development Commission (RREDC) to express our support of the Redwood Coast Energy Authority (RCEA) and their Redwood Coast Offshore Wind consortium, in their effort to obtain a lease to develop an area off the coast of Humboldt County. Securing this lease is a necessary step to begin the environmental studies and feasibility analysis for wind energy production off the northern coast of California. The Redwood Region Economic Development Commission supports taking advantage of the world-class wind resource off our coast and utilizing the existing Humboldt Bay harbor infrastructure for a clean energy industry.

The Humboldt County coast has some of the highest wind speeds in the nation and has ample under-utilized harbor properties ready to support deployment of a floating wind energy project. Our local government and industry leaders are capable of coordinating, developing, and supporting the needs of this new industry, including preparing a capable workforce. A clean technology industry in Humboldt County will result in immediate job creation and gives future generations the opportunity to work in a sustainable field that will provide skilled and well-paying jobs.

RCEA has engaged local stakeholders in the offshore wind scoping process, which has given us a clear understanding of the potential benefits, challenges, and scale of this project. The waters off our coastline have attracted the interest of wind energy developers worldwide and we believe that the RCEA is the appropriate entity to lead the effort to develop that resource. The organization's track record has shown that it prioritizes our community's energy needs while preserving the environmental quality of our coastline. It developed its consortium with the active participation of a community review board, including RREDC. We believe that this consortium represents the community well.

The Redwood Region Economic Development Commission (RREDC) is a collaboration of nineteen Humboldt County, California cities and district governments dedicated to expanding economic opportunity in our community. Our mission is to create opportunity and to support the growth of local business. We do this by addressing issues of regional significance, making loans, and offering technical assistance to business owners.

We encourage BOEM to swiftly process Redwood Coast Offshore Wind's unsolicited lease application for the area submitted. Thank you for your consideration.

Sincerely,

Patrick O'Rourke
Chair of the Board of Directors

Attn: Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010
Jean.Thurston@boem.gov

Dear Ms. Thurston,

This letter is in relation to efforts by the Redwood Coast Energy Authority (RCEA) and their consortium of Redwood Coast Offshore Wind partners to obtain a lease to develop an area off the coast of Humboldt County for wind energy production. The Schatz Energy Research Center (SERC) is a proponent of developing a robust local clean energy industry that would bring increased job opportunities, economic development, and renewable energy for our homes and businesses.

SERC supports California's effort to address climate change by setting ambitious renewable energy goals, reducing dependence on foreign energy sources, and lowering statewide greenhouse gas emissions. Rising sea levels are making coastal communities like ours more vulnerable to catastrophic events that result from the changing climate. These realities make the development of renewable energy projects of this scale imperative to our current energy transition.

Not only does the Humboldt County coast have some of the highest wind speeds in the nation, but it has ample, under-utilized harbor properties ready for deployment. Our local government and industry leaders are capable of coordinating, developing, and supporting the needs of this new industry, including preparing a capable workforce. A clean technology industry in Humboldt County not only favors local labor in the near future, but it also gives future generations the opportunity to work in a sustaining field that will provide skilled, well-paying jobs.

Renewable energy development will play a key role in Humboldt County's future, and we value RCEA's leadership in our community. RCEA has a robust track record when it comes to local energy initiatives and has been working for months to educate and unite our community in support of offshore wind. We appreciate local partners who make thoughtful, collaborative decisions and who prioritize the needs of the community, as RCEA has done in the past.

We note that RCEA's consortium was selected using a competitive process with substantial input from local stakeholders. We encourage BOEM to consider local representation among other review criteria when considering Redwood Coast Offshore Wind's unsolicited lease application for the area submitted.

Sincerely,

Arne Jacobson, Ph.D.
Director, Schatz Energy Research Center
Humboldt State University
Arcata, California

SURFRIDER FOUNDATION
HUMBOLDT

Attn: Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010
Jean.Thurston@boem.gov

Dear Ms. Thurston,

We are writing to express our appreciation for Redwood Coast Energy Authority's (RCEA) community-based approach to exploring an area off the coast of Humboldt County for wind energy production. Surfrider supports the statewide movement toward renewable energy and acknowledges that RCEA's Redwood Coast Offshore Wind consortium is well-situated to investigate this opportunity while prioritizing the community's needs and local environmental quality.

California faces many challenges due to climate change. Rising sea levels are making coastal communities like ours more vulnerable to catastrophic events, making our shift to clean energy sources even more urgent. We are interested in the effort to explore Humboldt County's contribution to the new energy industry, but we want to ensure that the stewardship and protection of our local coast and ocean is preserved. To this end, we feel that a local renewable energy industry is best driven by local governance.

RCEA has demonstrated their commitment to focus on community benefits by engaging local stakeholders to inform them of process and project milestones. This community-first approach is consistent with the work RCEA has done in the past.

We look forward to continued meetings with RCEA as the project moves forward to proactively address potential impacts and differing community perspectives. We encourage BOEM to consider the grassroots support behind Redwood Coast Offshore Wind's lease application. Thank you for your consideration.

Sincerely,

Emily Benvie
Chair, Humboldt Chapter
Surfrider Foundation
chair@humboldt.surfrider.org

the Northcoast Environmental Center

Mailing:
PO Box 4259
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July 2, 2018

To: Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Oceans Energy Management
Pacific OCS Region
760 Paseo Camarillo,
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Camarillo, CA 93010
Jean.Thurston@boem.gov

cc:
CC Joan Barminski
Renewable Energy Specialist
Bureau of Ocean Energy Management Renewable Energy Programs
Pacific OCS Region
760 Paseo Camarillo,
Suite 102 (CM 102)
Camarillo, CA 93010
joan.barminski@boem.gov

Dear Ms. Thurston,

Re: Off-shore Wind lease: Redwood Coast Energy Authority (RCEA)

We are writing to express our appreciation for the community-based approach Redwood Coast Energy Authority (RCEA) has initiated in looking at possible leasing of offshore areas of Humboldt County for wind energy production. The Northcoast Environmental Center has not taken a position on the project but look forward to learning more.

RECA has organized two stakeholder meetings for the local environmental community to introduce the project and to solicit thoughts from us. We are aware RCEA is simultaneously meeting with other stakeholder groups to capture the opportunities and concerns of local communities.

As a brief background, the Northcoast Environmental Center has served as a consortium of local conservation organizations since 1971. Our board includes representatives of local independent groups and local chapters of national conservation organizations. As such we are a trusted community conduit for informing the public as well as a snapshot of local conservation thought. You can learn more about the member groups and our members by looking at our website: https://www.yournec.org/

We look forward to future meetings with RCEA as the project moves forward including broader stakeholder meetings so we can learn from one another regarding issues and solutions that may arise from different points of view.

Above all, we appreciate that the effort is being led by an agency whose mission is to link local energy needs with desired outcomes, particularly where our environmental health is concerned.

We encourage BOEM to move forward with the unsolicited lease process quickly so that formal environmental assessment can begin as soon as possible, led by the best available science. This will assure environmental consequences including any impacts to oth recreational and commercial fishing, biological resources and tribal interests and visual impacts are fully addressed.

We strongly believe if a competitive interest in RCEA's requested lease area arises, BOEM should heavily weigh the auction process to prioritize non-monetary factors that will benefit local communities , and encourage community engagement in the development process.

Thank you for your consideration.

Sincerely,
Larry Glass, *Executive Director and Board President*, and the Northcoast Environmental Center Board of Directors

Larry Glass | Dan Sealy | Jennifer Kalt | Chris Beresford

Gary Falxa | Briana Villalobos | Alicia Hamann | C.J. Ralph

Richard Kreis | Bob Morris

TRINIDAD COASTAL LAND TRUST
www.TrinidadCoastalLandTrust.org

Attn: Jean Thurston, Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010

September 5, 2018

Dear Ms. Thurston,

On behalf of the Trinidad Coastal Land Trust, I would like to express our appreciation for Redwood Coast Energy Authority's (RCEA) community-based approach to exploring the development of an offshore wind energy project. We support the statewide movement toward renewable energy and acknowledge that RCEA is well-situated to investigate this opportunity while prioritizing the community's needs and local environmental quality.

Our organization focuses on coastal access and protecting the natural beauty and character of the Humboldt County coast. Rising sea levels and the other effects of climate change are impacting coastal communities and ecosystems like ours, making our shift to clean energy sources even more urgent. To this end, we encourage the development of local renewable resources, but we want to ensure that the health and diversity of our coastal environment is preserved. Thus, it is imperative that these new developments are driven by local governance.

Seabird protection is one of the areas of conservation that TCLT works actively on with our local and federal partners, and understanding and adequately mitigating impacts to seabirds will be a critical factor in the success of any local offshore wind energy development. As a trusted local agency, we feel confident that RCEA understands and shares our concerns about potential environmental impacts and so we look forward to working with RCEA and its development partners to ensure that the wildlife impacts of offshore wind energy are minimized and mitigated to the greatest extent possible.

RCEA has actively engaged the community in the scoping process, giving us an idea of the scale of this project and what it would mean for our region. They have demonstrated their commitment to focus on community benefits by engaging local stakeholders to select the consortium that will carry out the planning and operation of the project. This community-centric approach is consistent with the work RCEA has done in the past.

We look forward to continued meetings with RCEA as the project moves forward to proactively address potential impacts and differing community perspectives. We encourage BOEM to consider the grassroots support behind Redwood Coast Offshore Wind's lease application. Thank you for your consideration.

Sincerely,

Ben Morehead
Executive Director
Trinidad Coastal Land Trust

UNITED BROTHERHOOD OF
CARPENTERS AND JOINERS OF AMERICA
LOCAL UNION NO. 751
840 "E" Street, Suite #12
Eureka, California 95501
Phone: (707) 442-4286 - FAX: (707) 442-3456

August 30, 2018

Attn: Jean Thurston
Regional Director, Pacific Northwest Region
Bureau of Ocean Energy Management Pacific OCS Region
760 Paseo Camarillo, Suite 102 (CM 102)
Camarillo, CA 93010
Jean.Thurston@boem.gov

Dear Ms. Thurston,

On behalf of the Carpenters Local Union No. 751, this letter is in support of the Redwood Coast Energy Authority (RCEA) in their effort to obtain a wind energy lease off the coast of Humboldt County for the Redwood Coast Offshore Wind project. Humboldt Bay's unique nexus of existing harbor infrastructure and a viable wind resource makes it the ideal location for a clean energy industry.

Humboldt County coast boasts some of the highest wind speeds in the nation and has under-utilized port facilities that historically supported the local logging industry. The local unions, businesses, and industry leaders are capable of supporting this new industry, including preparing a capable workforce. A clean technology industry in Humboldt County not only favors local labor in the near future, but it also gives future generations the opportunity to work in a sustaining field that will provide skilled, well-paying jobs going forward.

RCEA has engaged our Union in their scoping process of this project, along with many other important local groups such as fishermen's associations, the Harbor District, and the utility. We have a clear understanding of the scale of this project, and the potential benefits and challenges that could arise from it. RCEA's robust experience on energy initiatives has shown that they prioritize the needs of our local economy, environment, and community. The consortium they have selected adds even more robust backing to this project, and is sure to result in a successful partnership.

We encourage BOEM to process Redwood Coast Offshore Wind's unsolicited lease application for the area submitted. Thank you for your consideration.

Respectfully,

Mariann B. Hassler

Mariann Hassler
Field Representative
Carpenters Local 751
707 442-4286 phone
707 442-3456 fax
mhassler@nccrc.org

News February 22, 2018

In the Wind

Can offshore wind energy reshape the future of Humboldt County?

BY THADEUS GREENSON

As legalized recreational cannabis takes hold in California, some Humboldt County officials think the local economy's future isn't tied to farms in the hills. It might be in the wind.

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COURTESY OF STATOIL

Hywind floating turbine demo off the coast of Karmøy, Norway.

A triad of factors has state and local officials, as well as energy companies, increasingly excited about the potential of offshore wind energy in Humboldt County, with the hope it could become a hub for the emerging renewable energy technology, transforming the local electric grid into 100 percent renewable energy while creating hundreds of jobs and revitalizing the port. Redwood Coast Energy Authority Executive Director Matthew Marshall says that while wind energy is nothing new, its local potential is.

"Frankly, we've got pretty much the best offshore wind resource in the entire country," he says, adding that the North Coast has the kind of consistent, strong winds that make wind energy companies salivate. "The wind has always been there and that's been known."

What's historically ruled the North Coast out of wind energy discussions, Marshall says, is that the waters off the local coast "get too deep, too quick," meaning the wind turbines used in shallow waters off the East Coast and elsewhere won't work off the Humboldt County coastline. But a new floating platform technology is proving to be a game changer.

The technology, which involved massive, 750-plus-foot-tall wind turbines fixed to partially submerged barges or platforms that are then tethered to the ocean floor, is proving viable, with the first full-scale deep water wind farm opening off the coast of Scotland last fall, after nearly a decade of pilot tests. State officials in California, which passed Senate Bill 350 in 2015 pledging the state to transition to 50 percent renewable energy by 2030, have taken notice and begun looking at offshore wind as a viable option for reshaping the state's electric grid.

"Three years ago, offshore wind energy wasn't in our thought process," said California Energy Commission Renewable Energy Integration Specialist Michael Sokol at a recent meeting convened by RCEA. He made clear that it is now. Part of what's tantalizing about offshore wind for state officials is its potential balance with the state's existing solar infrastructure. While solar energy production peaks at midday and vanishes at sunset, offshore wind would see its highest production in the late afternoon and evening, lessening the need for energy storage.

"Three years ago, offshore wind energy wasn't in our thought process."

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With California officials feeling an urgency to find renewable technologies that could work on a large scale and the emerging floating platform technology making the Pacific Coast potentially viable for offshore wind, eyes turned to the Central Coast. While the wind potential down south isn't as strong as off the North Coast, its proximity to population centers and energy infrastructure made the location a natural fit. State and federal officials were busy last summer conducting hearings and outreach on a lease application for a wind farm near San Luis Obispo until the U.S. Navy quietly threw a wrench in those plans back in August, signaling that it would veto the application because it could interfere with military testing operations. But the Navy didn't stop there, deeming the entire coastline from Los Angeles to north of Big Sur — more than 35,000 square miles — off limits.

That left Humboldt County as one of the only viable candidates for potential sites. In addition to getting the crucial OK from the Navy, Humboldt Bay is the only port in the northern stretch of the state that would be able to bring the huge turbines into port for maintenance, as they are too tall to clear the bridges of the San Francisco Bay.

"These things are huge," said Scott Morgan, a deputy director of administration in Gov. Jerry Brown's office at the recent RCEA meeting. "The blades on them are monsters."

"The blades on them are monsters."

click to tweet

Seemingly all of a sudden, the California Energy Commission began pointing energy companies toward Humboldt Bay.

At that point, Marshall says, RCEA had already entered into a partnership with Principal Power Inc., a technology and services provider for the offshore deep water wind energy market based in the Bay Area, to assess the potential of offshore wind energy. As the community choice aggregator for Humboldt County, RCEA has a clear stake in the outcome of the process and Marshall says the agency also wanted to ensure a local entity is involved in the process and conversations in order to retain some local control and ensure Humboldt doesn't end up at the whim of a large, multi-national energy company.

But when news of the Navy's veto of the majority of California's coast became public, Marshall says things kicked into high gear. RCEA is now circulating a request for qualifications, looking for other entities with the "needed technical and financial"

means to help cooperatively develop Humboldt County's offshore wind infrastructure. The agency hopes to find partners by the end of March.

Marshall says, the plan is to start small with a farm consisting of 10 to 15 wind turbines located 20 to 30 miles offshore, with the potential to scale up. For the moment, there isn't much incentive to go larger than that, Marshall says, as the infrastructure to connect Humboldt County to the rest of the state's electric grid doesn't exist, meaning it can't export excess electricity.

Changing that would require either extending high-capacity power lines east through Trinity County to connect with the state grid in Cottonwood or building an undersea transport system to the south. Both would come with price tags in the hundreds of millions of dollars.

While the conversation is entirely speculative at this point, it has local officials abuzz at the potential.

As the executive director of the Environmental Protection Information Center, Tom Wheeler jokes that he's often in the position of playing bad cop and shooting holes in development ideas. But not in this case.

"So far, we've been really excited about the conversation," he says, making clear there is still lots of information to be gathered and many questions to be answered. "It seems like we could have good, blue collar jobs and clean renewable energy from this project. It's just making sure we do it in a way that minimizes impacts to wildlife."

"It's just making sure we do it in a way that minimizes impacts to wildlife."

click to tweet

The wildlife impacts question seems a hard one to answer, as there's been minimal study on the issue so far. At 20 to 30 miles offshore, Wheeler says there aren't the concerns about harm to bald eagles, golden eagles and bats that onshore wind farms bring. But there are some concerns about impacts to pelagic birds and marine life. Most notably, Wheeler says there is the question of whether the vibrations or sounds from the windmills would affect migrating whales along the coast, which is currently unknown. Wheeler also says he's heard concerns that the floating platforms could attract sea birds by becoming "reef-like" ecosystems that draw fish and, consequently, feeding birds that would then get caught in the propellers.

"There are some concerns but we're at the investigation stage right now, and I fully support the investigation," he says. "I think this could be a great thing for Humboldt. This could be really cool."

Humboldt Bay Harbor District CEO Larry Oetker says the topic of an offshore wind farm has been on his radar since he stepped into the job in December. If things move forward, Oetker says, it would necessitate infrastructure improvements in the bay. Currently, he says, the bay entrance is deep enough and wide enough to accommodate barges pulling the wind turbines into port for maintenance and repairs. The problem is the docks in the bay — all of which were built primarily for loading and unloading wood products — can't handle the weight of the turbines, which run some 500 tons. But rebuilding one of the bay's docks to accommodate that kind of tonnage, along with the hoists needed to move things of that size, could create a host of other shipping possibilities.

"That would open up a whole container world to us, having containers come in and out of the port," Oetker says.

While at least initially the turbines themselves would be shipped to the North Coast, Marshall says, there would need to be local maintenance and repair crews, which would create some jobs. But if the farm proves successful and scales up, there's the potential for the large-scale creation of well-paying jobs locally.

The port of Grimsby in England used to be home to one of the world's largest fishing fleets back in the 1950s, but declines in fisheries and territorial squabbles over the waters of neighboring countries have largely decimated it, sending the city into a deep economic slump and one of the nation's highest unemployment rates. But about a decade ago, energy companies came calling about offshore wind.

"To be truthful, it sounded a load of rubbish," Port Chief Martin Boyers told *Public Radio International*. "It's turned out to be very good for us."

According to the *PRI* report, the offshore wind boom has resulted in the creation of thousands of jobs, with more on the way as England looks to ramp up its use of renewable energy in the coming decades. In addition to the technicians and maintenance workers needed to keep the wind farms up and running, Grimsby has welcomed a number of factories that manufacture the massive turbines, which have hand-made blades that weigh 30 tons and stretch 250 feet long.

If the pilot project gets up and running and does well, Marshall says, there's similar potential in Humboldt County. He says he can envision wind power companies buying up land on the Samoa Peninsula — which is designated as a free trade zone and comes with some special tax benefits to companies located there — and producing turbines locally. Further, he says, there's the potential for numerous licensed farms along the Northern California and Oregon coasts, with Humboldt Bay serving as the production and maintenance hub.

"If the sector really takes off, then there's that potential next phase," he says.

But that's all putting the cart way before the horse. Marshall says RCEA is currently meeting with stakeholders and gather public input, having already met with representatives of the fishing industry, local governments, environmental groups and local tribes.

So far the feedback has been invaluable and largely supportive, Marshall says. As an example, he says fishermen balked at the initial proposal to locate the farm 15 to 20 miles off shore, saying 15 "would be horrible," but were fine with it being 20 to 30 miles out, so RCEA adjusted plans accordingly. The added distance, Marshall says, will also mean the turbines will be even less visible from shore. Spotting them, he says, will be somewhat like trying to find the smoke stack on the old pulp mill while standing on Trinidad Head. "Getting 20 to 30 miles off the coast, you're going to be lucky to be able to see it on a clear day with binoculars," he says.

Having already gathered a lot of stakeholder input, RCEA will now begin to reaching out to the general public. To that end, Marshall says the agency has a pair of informal public information sessions planned — from 4 to 7 p.m. on March 5 at the Social Club in Samoa and March 6 at Plaza Grill — when folks can drop in, have a snack and a beverage and learn more about the project.

Meanwhile, RCEA hopes to identify partners with an eye on hitting the ground running on a proposal this spring. But Marshall warns the process will be slow. Once RCEA has partnerships in place and its ducks in a row, it will begin the lease process with the Bureau of Ocean Management by submitting an application. If the bureau deems there's competitive interest — which seems likely in this case — it would put the lease

out to auction. Once a high bidder secures the rights, the project would then undergo studies, evaluations, site plans and environmental review.

"We have to plan to plan, then comes the planning, then reviewing the plan," he says. "There are going to be countless phases of permitting and planning."

— *Thadeus Greenson is the Journal's news editor. Reach him at 442-1400, extension 321, or thad@northcoastjournal.com. Follow him on Twitter @thadeusgreenson.*

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Bio:
Thadeus Greenson is the news editor of the *North Coast Journal.*

Principle Power Forms Floating Wind Pact in California

Image source: Principle Power

Principle Power and Redwood Coast Energy Authority (RCEA) have signed a Memorandum of Understanding (MoU) for the development of a floating wind project offshore Humboldt County, California, U.S.

Prior to signing the MoU, Principle Power began exploratory meetings with RCEA, environmental groups, fishermen and other parties for a potential offshore wind project off the Humboldt coast.

A report by the National Renewable Energy Laboratory (NREL) showed that the greatest potential for renewable electricity generation in the area is deep water offshore wind. According to NREL, the maximum technical potential for the Humboldt coast is 1100MW with a capacity factor (annual average of maximum output) of 55 percent.

Humboldt's most promising sites for offshore wind development are approximately 15 to 20 miles offshore in deep water, therefore the turbines would be mounted on floating platforms, RCEA said.

According to RCEA, the meetings and the agreement are only the beginning of the long process of completing an operational offshore wind project.

Given its offshore wind resources, potential for port development, and diverse economy—including a robust energy sector—there is strong potential for employment and economic activity from the construction and operation of new offshore wind projects in California, NREL said in its 2016 report.

Up to 16GW of offshore wind could create nearly 6,000 long-term operations-phase jobs in California by 2050, the report showed.

Posted on December 12, 2017 with tags Humboldt, Memorandum of Understanding, Principle Power, RCEA, Redwood Coast Energy Authority.

Principle floats California dream

MoU with local energy agency to explore options off Humboldt coast

12/12/2017

Principle Power has signed a memorandum of understanding with the Redwood Coast Energy Authority (RCEA) to explore the floating offshore wind potential of the Humboldt coast of California in the US.

Meetings have already taken place between Principle Power, RCEA, environmental groups and fishermen to discuss potential options, RCEA said.

RCEA, which is a local government agency, said the most promising sites are 24km to 32km offshore in deep water and so would need to involve floating technology.

It added that the meetings and the MoU are “only the beginning of the process” and any operational offshore wind project would take “a number of years to complete”.

Image: Principle Power

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Renewable Energy Potential in Humboldt Includes Offshore Wind

December, 2017
Michael Winkler, Redwood Coast Energy Authority

Turbines in the Barrow Offshore Wind project off Walney Island in the Irish Sea. Photo: Andy Dingley, WIkimedia CC.

Residents of Humboldt County have a long-standing commitment to environmental sustainability—including sustainable energy. In spite of our often foggy weather, Humboldt County has one of the highest per-capita number of photovoltaic (PV) systems in California. This past May, the Humboldt County government, through the Redwood Coast Energy Authority (RCEA), took over control of the electricity supply for more than 90 percent of the homes and businesses in Humboldt County from PG&E through RCEA's Community Choice Energy (CCE) program—providing a higher percentage of renewable content than that offered by PG&E. The sources of renewable electricity are primarily from wind and solar electricity generated outside our area, a lesser amount generated from biomass (sourced from wood waste from the timber industry), and a very small amount from local solar PV.

In 2013, HSU's Schatz Energy Research Center published an in-depth report (www.schatzlab.org/docs/RePower_Humboldt_Strategic_Plan.pdf) on current energy consumption in Humboldt County and potential local renewable energy sources that would allow Humboldt County to rely almost exclusively on local renewable energy.

According to a recent report by the National Renewable Energy Laboratory (NREL), by far the greatest potential for renewable electricity generation in our area is deep water offshore wind. According to NREL, the maximum technical potential for the Humboldt County coast is 1100 MW with a capacity factor (annual average of maximum output) of 55 percent. If Humboldt's capacity were fully developed, it could supply twenty times the total electricity consumption of Humboldt County. Current transmission capacity out of Humboldt County is approximately 60 MW, so full development of our capacity would require a major upgrade of our transmission lines.

Humboldt's most promising sites for offshore wind development are approximately 15 to 20 miles offshore in deep water, so the turbines would be mounted on floating platforms. Onshore wind energy potential in Humboldt is significantly smaller than offshore and more variable, but is also substantial.

Almost 10 years ago, Shell tried to develop a wind energy site south of Ferndale on Bear River Ridge, but dropped the project for a variety of reasons—including strong local opposition. Shell did a number of environmental assessments at the time (including potential impacts on birds and bats) and held a number of public meetings. Some of these assessments may still be applicable to future projects.

Shell made a number of mistakes when they tried to develop their project, including poor public relations and not adequately involving local community groups and citizens at an early stage in the project. A significant amount of opposition was related to the fact that it was being developed by Shell, a multi-national oil company with a less than stellar environmental and human rights record.

Successful development of our local renewable energy potential will require active public involvement at a much earlier stage in the project than we saw with this previous project. Working with industry partners that have solid environmental and human rights records is also a priority.

Principle Power, a global technology leader for floating offshore wind energy based in Emeryville, CA, began exploratory meetings with RCEA, environmental groups, fishermen, and other parties in October of this year for a potential floating offshore wind project off the Humboldt coast. Their efforts to engage with local communities and interest groups early on is commendable.

A Memorandum of Understanding (MOU) was also approved by the RCEA board between RCEA and Principle Power in October, which establishes a collaborative effort to work together on the key requirements needed to develop Humboldt's offshore wind energy potential. An

operational offshore wind project would take a number of years to complete. These meetings and the MOU are only the beginning of that process.

Principle Power also participated in a clean energy panel discussion at HSU as part of the Schatz Energy Lab's Sustainable Futures Speaker Series on November 9, which also featured representatives from RCEA, PG&E, and the Schatz Energy Lab.

In Humboldt County, we have excellent local energy expertise and abundant renewable energy sources that provide unique opportunities for local renewable energy generation. Long-term, Humboldt can become both energy self-sufficient and potentially a major exporter of renewable energy.

If you would like more information or to learn more about how to get involved with the offshore wind process, contact RCEA at info@redwoodenergy.org. You can also follow the RCEA board meeting agendas to attend meetings when offshore wind is on the agenda. Visit the RCEA website at www.redwoodenergy.org.

Subject categories:

- Energy
- Local Sustainability

EcoNews

EcoNews Report

Coastal Programs

Volunteer!

- Site Documentation
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The Northcoast Environmental Center, 415 I St, Arcata, CA
MAILING ADDRESS: P.O. Box 4259, Arcata, CA 95518
Phone: (707) 822-6918 | E-mail: nec@yournec.org

APPENDIX H: RCEA REQUEST FOR PROPOSAL DOCUMENT

REQUEST FOR QUALIFICATIONS

For

Humboldt County Offshore Wind Energy Development Partners

RFQ-18-001
www.RedwoodEnergy.org
Redwood Coast Energy Authority
February 2018
Responses Due February 28, 2018, 5:00 p.m. PST

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DISCLAIMER: This Request for Qualifications (RFQ) is not a commitment or contract of any kind. The Redwood Coast Energy Authority (RCEA) reserves the right to pursue any, or none, of the proposals generated by this request. Costs for developing the responses are entirely the responsibility of the Respondents and shall not be reimbursed. RCEA reserves the right to select the response(s) that is(are) in RCEA's best interest, to reject any and all responses, to terminate the RFQ process, and/or to waive any requirements of this RFQ when it determines that doing so is in the best interest of RCEA. Further, while every effort has been made to ensure the information presented in this RFQ is accurate and thorough, RCEA assumes no liability for any errors or omissions in this document.

Introduction

The Redwood Coast Energy Authority (RCEA) is issuing this Request for Qualifications (RFQ) to select a qualified entity or group of entities to enter into a public-private partnership for the purpose of pursuing the development of an offshore wind energy project off the Northern California coast.

It is RCEA's intent to enter into a partnership agreement(s) with the entities selected through this RFQ and to work with them to develop and submit an application for an outer continental shelf renewable energy commercial lease to the Bureau of Ocean Energy Management (BOEM) in the spring of 2018 through BOEM's unsolicited lease request process. Should a lease be secured, RCEA intends to then work with these partners to develop and eventually operate a floating offshore wind project within the lease area.

Background

RCEA Mission and Goals

RCEA is a local government joint powers agency with member agencies consisting of the County of Humboldt, the Cities of Arcata, Blue Lake, Eureka, Ferndale, Fortuna, Rio Dell, Trinidad and the Humboldt Bay Municipal Water District. Formed in 2003, RCEA's mission is to develop and implement sustainable energy initiatives that reduce energy demand, increase energy efficiency, and advance the use of clean, efficient and renewable resources available in the region. Relating to the local development of floating offshore wind energy, RCEA's 2003 Joint Powers Agreement includes specific goals to:

- Lead, coordinate and integrate regional efforts that advance secure, sustainable, clean and affordable energy resources.
- Support research, development, demonstration, innovation, and commercialization of sustainable energy technologies by public and private entities operating in Humboldt County.

The Humboldt County General Plan designates RCEA as the regional energy authority with the responsibility to coordinate and facilitate countywide strategic energy planning and implementation. In 2012, RCEA adopted the Humboldt County Comprehensive Action Plan for Energy (CAPE), which is one of RCEA's primary guiding documents. The CAPE established specific strategic action items relevant to the development of the region's offshore wind energy resources, including:

- **Large-Scale Wind Energy:** Work with utilities and private companies to develop off-shore wind energy demonstration projects.

- **Emerging Energy Technologies:** Support the development of emerging energy technology from local innovators and inventors, as well as from non-local sources.

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

- **Proactive Development Support:** Collaborate 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.

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

RePower Humboldt Strategic Plan

Expanding on the strategies outlined in the CAPE, RCEA initiated RePower Humboldt, a community-wide effort to define a vision and Strategic Plan for achieving energy independence and energy security in Humboldt County. With the support of the Humboldt State University Schatz Energy Research Center, the CA Energy Commission, Pacific Gas & Electric Company (PG&E), and many community stakeholders, this effort culminated in the development of the RePower Humboldt Strategic Plan to establish a vision for the year 2030 and guide the integration of renewable energy into Humboldt County, develop local energy infrastructure, and set energy-related goals.

Finalized in 2014, the RePower Humboldt Strategic Plan identifies "**pursuing opportunities for off-shore wind energy research, development, and demonstration**" as an important objective, noting that Humboldt County is uniquely positioned to play a critical role in the early adoption of offshore wind energy resources in California and that local harbor infrastructure can support development of these technologies.

In addition to technical and economic assessment of local renewable energy development potential, the RePower Humboldt project conducted a robust community and stakeholder engagement process to identify community values and guiding principles for pursuing the development of local renewable energy projects. Community stakeholders prioritized "local acceptance, participation, and control" as a key criterion for future projects, which was captured in the following strategy from the RePower Plan:

> **Develop options for local development and ownership of renewable energy projects:** Local participation and control over renewable energy resource development is a key guiding principle identified in the RePower Humboldt stakeholder process. We can achieve local control and ownership of energy projects through private development that involves local entities, public development by municipal actors, and development by local Tribes. The community should promote and support policies that achieve local ownership of renewable energy projects, as well as local involvement in projects that are developed and owned by out-of-county entities.

Community Choice Aggregation

In 2015 RCEA identified community choice aggregation (CCA) as a critical mechanism for the implementation of the RePower Humboldt Strategic Plan and RePower Humboldt 2030 vision. To that end, over the course of 2015-2017 RCEA's local-government members approved revisions to RCEA's joint powers agreement, adopted ordinances, and completed the necessary planning and regulatory steps to establish RCEA as the community choice aggregator for the County of Humboldt and all the Cities within the County. Launched in May 2017, RCEA's CCA program is now the default electricity generation service provider for the County, serving over 60,000 customers with some 700,000 MWh of annual load. Operated in partnership with PG&E, the CCA program provides local control over electricity supply, customer rate savings, and increased use of renewable electricity, while maintaining the same reliable grid operations and customer services provided by PG&E.

Based on the groundwork established by the RePower Humboldt strategic plan for developing local renewable energy, the RCEA Board of Directors determined to proceed with developing the CCA with the core goal to "Maximize the use of local renewable energy while providing competitive rates to customers. "

In September of 2016 the RCEA Board adopted the Guidelines for the CCA Program's Launch-Period Strategy and Targets, which were developed with public input received through a series of public presentations, meetings, and workshops. These Guidelines establish specific targets and objectives for the initial launch phase of the program during years 1-5 of operation. In addition to the over-arching goal of maximizing the use of local renewable energy, the Guidelines establish that the program will be designed to also pursue the following aspirations and community benefits:

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

Further, the CCA Program Guidelines lay out power-portfolio goals for near-term and long-term local renewable energy generation. These include the goal of pursuing the development of offshore wind energy, specifically directing that "RCEA will allocate resources to moving forward with community and stakeholder engagement, site selection, environmental review, and project scoping" for a local offshore wind project.

Recent Efforts

Based on the many years of planning and public engagement summarized above, combined with the maturation of floating offshore wind technology and the ramp-up of State and Federal efforts to enable offshore wind development in California, in 2017 RCEA began to evaluate potential next steps toward developing local offshore wind consistent with the objectives of the CCA Program Guidelines and previously established goals.

Early on in this evaluation RCEA was approached by Principle Power Inc (PPI), a technology, engineering, and development services provider for deep-water offshore wind energy projects.

Based on a mutual interest to explore the potential for a Humboldt County offshore wind project, PPI and RCEA began to collaborate on this evaluation and eventually entered into a Memorandum of Understanding (MOU) to provide a framework for cooperatively working together on this exploratory effort. This effort has included preliminary technical and economic assessments as well as initial outreach and engagement with local stakeholders.

While RCEA's local efforts were underway, the U.S. Navy recently designated the majority of the California coastline outside of Humboldt County as excluded from offshore wind development due to potential military mission incompatibility.[1] The Navy's designation, combined with the North Coast's world-class offshore wind resource and other community assets, has resulted in an increased focus on Humboldt being a potential location for early deployment of offshore wind in California.

As the local agency tasked with encouraging and coordinating the development of local renewable energy resources and offshore wind development specifically, RCEA welcomes the increase in State, Federal, and industry interest in Humboldt's wind energy resource. Within this context, the long-established and consistently-restated community interest in maintaining local control over the development of our community's renewable resources compels RCEA to pursue an offshore wind development pathway that incorporates a direct local stake in planning and potential development off our coastline.

Further, as the local power provider and potential off-taker or purchaser of power generated by a local offshore wind project, RCEA also has a direct interest in holding a stake in the project to ensure the maximum benefits and the minimum costs to its constituents and ratepayers. Accordingly, RCEA has determined that applying for a commercial wind-area lease through BOEM's unsolicited lease request process is the preferred next step to secure a degree of local control over any potential development and to direct that development toward a location and project design best aligned with the local community's needs.

However, time is of the essence and RCEA is well aware that it currently lacks the technical and financial resources to develop the local offshore wind resource without substantial outside support. To address these constraints RCEA has issued this RFQ to identify and engage the needed technical and financial/development partners willing and able to work with RCEA to cooperatively develop Humboldt County's offshore wind resource as a community energy asset.

The future efforts from any partnership agreements resulting from this RFQ would be built on the foundation of a significant amount of work already completed to date under the MOU between RCEA and PPI. That work led directly to the decision for RCEA to seek to establish the public-private partnerships enabled by this RFQ for the purposes of pursuing a BOEM lease and the eventual development and operation of a local offshore wind project. While the MOU provided an effective framework for an initial phase of exploration by PPI and RCEA, its non-binding/non-exclusive nature does not provide an adequate contractual structure necessary to move forward with the next formal steps of pursuing a project. Regarding PPI and RCEA's relationship to-date, it should also be explicitly noted that:

1) The framing of the MOU was collaborative but intentionally non-binding in nature, specifically stating: "This Memorandum does not establish a joint venture, partnership, or business unit of any kind between the Parties, nor does it necessarily create a financial

[1] http://greenfleet.dodlive.mil/rsc/department-of-the-navy-california-offshore-wind-compatibility/

or future legal obligation on behalf of either Party. Further, the Memorandum does not grant or create an exclusive right to negotiate between RCEA and PPI; and, subject to the provisions of the Non-disclosure Agreement, either party is free to negotiate or explore the development of offshore wind energy with other persons and entities."

In addition, there have been no financial transactions between PPI and RCEA, PPI has not been compensated in any way by RCEA for any activities, and PPI did not have any direct role in the decision by RCEA to issue this RFQ nor any input in the drafting of the RFQ. Accordingly, it is RCEA's determination that no conflict of interest or other impediment to being eligible to respond to this RFQ exists for PPI as a result of the MOU and/or any other interactions between RCEA and PPI.

2) It is RCEA's determination that this RFQ represents the appropriate next step to establish a formal, contractual public-private partnership(s) with one or more parties to pursue an offshore wind development project through a public and transparent process. The need and desire to issue this RFQ emerged in part from the cooperative efforts under the MOU between RCEA and PPI. It *should not* be construed to reflect in any way a failing of those efforts, any divergence by PPI from the terms of the MOU, or any other negative action or deficiency of PPI. Indeed, PPI's activities in Humboldt County and efforts in the context of the MOU to date have consistently reflected sound technical capabilities and a strong and respectful commitment to community engagement and community-driven process. Accordingly, RCEA expects and encourages PPI to respond to this RFQ.

Goals, Objectives, and Desired Partners

The goal of this RFQ is to identify and engage one or more qualified entities to enter into a public-private partnership agreement(s) for the purpose of submitting an application for an outer continental shelf renewable energy commercial lease to the Bureau of Ocean Energy Management (BOEM) in the spring of 2018 through BOEM's unsolicited lease request process for the development of an offshore wind energy project off the Northern California coast. Should a lease be secured, RCEA intends to then work with this (these) partner(s) to develop and eventually operate a floating offshore wind project within the lease area.

The first stage in that process would be to develop and submit an application for an outer continental shelf renewable energy commercial lease to BOEM in the spring of 2018 through BOEM's unsolicited lease request process. This would provide RCEA and its partners the exclusive right to subsequently seek BOEM approval for the development of the leasehold. The lease does not grant the lessee the right to construct any facilities; rather, the lease grants the right to use the lease area to develop its plans, which must be approved by BOEM before the lessee can move on to the next stage of the process.

If a lease is secured, RCEA and its partners will then be required by BOEM to develop a Site Assessment Plan and a Construction and Operations Plan. BOEM summarizes these steps in the process as follows:

- **Site Assessment.** The site assessment phase includes the submission of a Site Assessment Plan (SAP), which contains the lessee's detailed proposal for the

construction of a meteorological tower and/or the installation of meteorological buoys on the leasehold. The lessee's SAP must be approved by BOEM before it conducts these "site assessment" activities on the leasehold. BOEM may approve, approve with modification, or disapprove a lessee's SAP. It is also during this phase that the lessee would conduct site characterization surveys and studies (e.g., avian, marine mammal, archeological).

- **Construction and Operations.** The construction and operations phase consists of the submission of a Construction and Operations Plan (COP), which is a detailed plan for the construction and operation of a wind energy project on the lease. BOEM conducts environmental and technical reviews of the COP and decides whether to approve, approve with modification, or disapprove the COP. Prior to the end of the lease term, the developer must submit a plan to decommission facilities.

In addition to these BOEM lease development requirements, RCEA and its partners will have to complete a range of additional activities, including but not limited to:

- Perform the environmental, technical, and stakeholder-engagement activities needed for the SAP and COP processes along with the wide range of State and Federal environmental permitting requirements and processes necessary for the development of the project, including NEPA and CEQA.

- Coordinate with Federal and State agencies for support and to align the project with their priorities as well as pursuing any relevant funding or other opportunities for support.

- Identify and secure a grid interconnection location for the project and identify solutions for any transmission system upgrades the project may require.

- Develop power off-take terms, requirements, and necessary agreements for RCEA and any other additional power purchasers.

- Identify local infrastructure needs and opportunities with a focus on local harbor utilization and maximizing local economic development benefits.

Should the above phases of project planning and development lead to a potential for a technically, economically, and environmentally viable project, RCEA and its partners would proceed with the implementation of the COP to deploy and operate the project under terms and agreements cooperatively developed though the partnership.

Partner "Areas of Capability" and Associated Required Qualifications and Capacities

To move forward with the above activities, RCEA has initially identified three distinct areas of qualification and capacity desired for the success of project completion: 1) Technical Consulting Services; 2) Floating Offshore Wind Technology Provider and Project Design; and 3) Offshore Wind Energy Project Financing, Development, and Operations. Additional details on the specific needs associated with these three "areas of capability" are outlined below. Respondents may offer qualifications responsive to any one or more of the three distinct areas.

1. Technical Consulting Services

Core activities under this partnership component would include the environmental and regulatory planning, permitting, and compliance components of project development. This role would include substantive work on activities that include but would not be limited to:

- Engage, educate, and involve the local community and key stakeholders in all stages of the project development process.
- Develop the lease application.
- Conduct site characterization studies.
- Develop and submit to BOEM a SAP.
- Develop and submit to BOEM a COP.
- Support the environmental and technical review of the SAP and COP.
- Complete the wide range of State and Federal environmental permitting requirements and processes necessary for the development of the project, including NEPA and CEQA.
- Design and implement environmental monitoring and mitigation plans.

Ideal Respondent qualifications would include:

- A depth and breadth of experience working with the relevant California and Federal agencies and their respective requirements and approval processes.
- Specific qualifications and experience relevant to Northern California offshore environmental and community resources, values, and conditions.
- Experience with offshore renewable energy development and the BOEM unsolicited lease application process.

2. Floating Offshore Wind Technology Provider and Project Design

The water depths off the coast of Humboldt County make fixed-bottom wind turbines infeasible and/or undesirable, requiring the use of a floating turbine foundation approach. To ensure a timely deployment and to minimize risk and uncertainty, RCEA seeks to utilize to the greatest extent feasible technologies that are beyond the research and development phase and are ready for commercial deployment. Ideal Respondent qualifications would include:

- Proven floating-wind platform technology that has been deployed in open-ocean conditions for at least two years of continuous operation with a 1MW or greater nameplate capacity turbine delivering power to shore.
- Ability to scale up to accommodate modern offshore turbine sizes of 8+MW. It is also preferred that the platform be flexible in design to be able to accommodate a range of conventional/available offshore turbine models.
- Able to be deployed in depths of up to 900 meters.
- Capacity to scale up and deploy a Humboldt County project approximately 100-150MW in size in the next five to seven years using 8+MW turbines.
- Credible and justifiable levelized cost of energy projections applicable to the proposed deployment timeline of five to seven years and 100-150MW scale of this project.

In addition to the above technology requirements, qualified Respondents should have relevant general experience in designing and deploying offshore wind projects, including collaboratively working with a diverse range of community and development partners.

3. Offshore Wind Energy Project Financing, Development, and Operations

Successfully developing a utility-scale floating wind project that may eventually be the first commercial offshore wind project in California (or the west coast) will require substantial project financing, development, and operations capabilities. To that end, RCEA seeks to partner with one or more renewable energy project developers with the means and commitment to work with the community to finance, plan, construct, and operate this project. Responses should demonstrate experience and organizational capability with the following:

- Experience to install, manage, operate, maintain, repair, dismantle, and decommission an offshore wind energy project -- including the size and number of projects completed (or in process) to date.
- Financial capacity and project-financing capabilities to facilitate the anticipated five to seven-year development timeline and eventual up-front construction costs prior to the operational, power-production phase.
- Demonstrated commitment and track record of transparent and collaborative community engagement and participation.
- Flexibility and creativity to successfully complete a cutting-edge project of this nature.
- Experience developing utility-scale renewable energy projects through public-private partnerships and/or experience working with public power entities.
- Development experience in the United States, and particularly experience with and/or relevant to the BOEM offshore renewable lease and development process.

The project's financing, ownership, and operations structure are expected to be negotiated as a part of the process of developing the partnership agreement(s) intended to result from this RFQ. However, Respondents are encouraged to provide with their response any partnership models/structures, examples, or concepts that they think could be a good fit for this project.

Response Process

RCEA reserves the right to interpret or change any provision of this RFQ at any time prior to the proposal due date. Such interpretations or changes shall be made in the form of addenda to this RFQ. RCEA, in its sole discretion, may determine that a time extension is required for submission of responses to this RFQ, in which case such addenda shall indicate a new RFQ submission deadline.

RCEA, in its sole discretion, may decide to split this RFQ process into separate tracks and timelines for the three areas of capabilities described above, including a time extension or other RFQ modification that applies to one or more of the three tracks but not the others. For example, due to the scope and complexity of the "Offshore Wind Energy Project Financing, Development, and Operations" area of capabilities as defined above, it may be required to

extend the timeline or otherwise modify this RFQ for that partnership area while still moving forward with the original Technical Consulting and/or Technology Provider areas.

RCEA reserves the right to waive inconsequential deviations from stated requirements.

Schedule

RCEA intends to adhere to the schedule provided below during the selection process. This schedule may change at RCEA's sole discretion as described above.

Activity	Date
RFQ Released	2/1/18
Deadline to submit written questions	**2/9/18 5:00 p.m. PST**
Anticipated distribution of Questions and Answers	2/14/18
Addenda, if any, issued	2/2 - 2/28/18
Statement of Qualifications Due	**2/28/18 5:00 p.m. PST**
RCEA may request clarifying information from Respondents	3/1 - 3/12/18
RCEA may conduct interviews with select Respondents	3/5 - 3/9/18
Anticipated notice of recommendation for preferred Respondent(s)	3/12/18
Anticipated RCEA Board selection of Respondent(s) with whom to enter into negotiations	3/19/18

The questions and answers, any addenda, and any other updates in the RFQ process will be posted to RCEA's website. Interested parties may request to receive notification of the questions and answers as well as any addenda by emailing Lori Biondini at lbiondini@redwoodenergy.org. Notifications will be provided via email to any interested party that provides RCEA with electronic contact information.

Submittal of Written Questions

RCEA requires Respondents to submit all questions and requests for information in writing via email to RCEA at lbiondini@redwoodenergy.org. The deadline for submitting written questions and requests for information will be February 9, 2018 at 5:00 p.m. Pacific Time. RCEA will NOT accept questions or requests for information related to the RFQ after this time. Questions and answers will be posted and distributed by the anticipated date of February 14, 2018.

Clarification of Statement of Qualifications (SOQ) Information

A Respondent may be asked to clarify information through written or verbal communications and/or in-person interviews. The clarification process may be performed by RCEA staff, the SOQ review team, and/or the RCEA Board's Offshore Wind Subcommittee at any time during the course of the RFQ process at RCEA's discretion.

One or more Respondents may be invited to present their qualifications to the SOQ review team, RCEA Board Offshore Wind Subcommittee, and/or the RCEA Board. If such presentations are requested, RCEA intends to schedule them the week of March 5-9, 2018; RCEA will try to provide reasonable advanced notice of any such presentation but Respondents should plan accordingly.

Contact and Address

Respondents shall submit all correspondence, questions and their SOQ to the following contact individual:

Lori Biondini, Director of Business Development and Planning
Redwood Coast Energy Authority
633 3rd Street Eureka, CA 95501
Telephone: 707-269-1700
Email: lbiondini@rewoodenergy.org

SOQ Contents and Submittal

THE RESPONSES TO THIS RFQ SHOULD BE SUBMITTED ELECTRONICALLY VIA EMAIL IN PDF FILE FORMAT TO LORI BIONDINI AT: lbiondini@redwoodenergy.org NO LATER THAN 5:00 P.M. PACIFIC TIME ON FEBRUARY 28, 2018. Files should be formatted for printing on 8.5”x11” paper; Respondents can submit hard copies of their responses if they choose, but this is not required. Electronic submittal is mandatory in any case.

Respondents must provide all information requested in this section and addendum items, if any, as part of their responses. Failure to provide all required information as listed below may be grounds for rejection of a response. Please read this entire RFQ and all attachments before preparing your response. Respondents should seek clarification of any requirements they do not fully understand. Misunderstandings that result in an incomplete or improper response will not be considered a valid reason for submitting a non-responsive submittal. Any clarification desired by Respondents regarding the meaning or interpretation of this RFQ must be requested in writing by email not later than February 9, 2018 at 5:00 p.m. Pacific Time.

Responses shall be submitted according to the following format and include the following information:

1. **Cover Letter**
   Provide a cover letter that includes the following:

   - Name, address, telephone, and email of Respondent and primary contact person.

   - If team arrangement is proposed, describe the structure of the relationship and any past working relationships on similar projects.

- A statement that you have reviewed the requirements of the project as described in this RFQ, its enclosures, and all addenda, by listing all addenda.

- The cover letter and any forms must be signed by an officer or agent of the Respondent authorized to bind the Respondent.

2. Executive Summary

Provide an executive summary, not to exceed two pages, describing in brief the area (or multiple areas) of capability, as defined by this RFQ, that you propose to partner with RCEA on and that highlights the major elements of your qualifications and capabilities.

3. Company Description, Experience and Qualifications

Background Information

Provide the following company Information:

- Name of Firm
- Address of Firm
- Telephone, Fax Number, and E-Mail Address
- Primary Contact Person
- Legal Structure (corporation, partnership, joint venture, etc.)
- Size of Firm / Staff
- Years in Business
- Name and titles of the entity's principal officers

If team arrangement is proposed, provide the above information for each team member.

Staff Qualifications

Provide the names and contact information of individuals who will be assigned to lead the partnership efforts described in this RFQ. List the qualifications of each individual and provide a resume or curriculum vitae (CV) for each such individual.

Specify how the Respondent has attained or fulfills the knowledge, experience, abilities, and capacity necessary to meet the needs of the Area(s) of Capability that the Respondent is proposing to provide.

Sample Projects and References

Describe projects and/or services provided currently, or in the past, that are directly relevant to offshore wind project development needs described in this RFQ.

Provide the name, telephone number, email, and address for three (3) clients or project partners as references for your experience and capabilities as requested in this RFQ.

Subcontractors or Partners

Respondents shall identify all subcontractors or partner entities with whom they propose to work for this project. Specify what roles the subcontractors will perform and include their contact information and qualifications; qualifications should include all information listed above.

4. Technical Response

Qualifications and Capacity Specific to the Relevant "Area(s) of Capability" as defined in this RFQ

Respond to the project needs and specific requirements associated with whichever of the three areas of capability proposed to be addressed (1. technical consulting, 2. platform technology, or 3. financing, development, and operations), as described above.

If a Respondent or team of Respondents is proposing to address more than one of the areas of capability, organize your response to delineate each area of capabilities as outlined in the RFQ, and address separately and in thorough detail your qualifications, strategy, and capabilities associated with each element required for a successful project.

Understanding of the Project and the Related Partnership Needs and Requirements

Respondents should provide a summary of their understanding of the project and the needs and requirements of RCEA and its selected partners to ensure a successful project. This should include such factors as:

- Development and stakeholder/community engagement process, and the Respondent's commitment and track record in working with local communities.
- Understanding of local environmental and community characteristics in Humboldt County.
- Understanding of BOEM process and the California-specific regulatory and development environment, including CAISO market conditions and interconnection requirements, CCA/IOU relationships and dynamics, and relevant State policies and regulations.

5. Conflict of Interest

All Respondents must disclose any contractual or personal relationship that exists, or has existed, between the Respondent and a predecessor organization of the Respondent, or a subcontractor or team participant included in the Respondent's response to this RFQ, and RCEA or its Member Agencies, including any RCEA or Member Agency officer. Respondent must also disclose any existing business or personal relationship between the Respondent, its principals, or any affiliate or subcontractor, and RCEA, its Member Agencies, including any RCEA or Member Agency officer, or any other entity or person involved in the project that is the subject of this RFQ.

Failure to disclose any such prior or existing contractual or personal relationship as described in this section may result in disqualification of the SOQ. RCEA will make the final determination regarding the existence of a conflict of interest.

6. Appendix of Additional Information

Other information or data relevant to your SOQ is optional and may be included as an Appendix to the SOQ.

SOQ Evaluation and Selection

Evaluation Procedures

The SOQs should be clear and concise to enable RCEA to make a thorough evaluation and arrive at a sound determination as to whether the SOQ meets RCEA's requirements. To this end, the SOQ should be specific, detailed, and complete to clearly and fully demonstrate that the Respondent has a thorough understanding of and has demonstrated knowledge of the requirements to perform the work.

The SOQs will be evaluated based on their content, completeness, and clarity. Based on the contents of submitted responses, the results of any interviews and oral presentations (if conducted), along with any other information requested, the SOQ review group will prepare a final ranking of the responses and present its ranking to the RCEA Board.

The RCEA Board will have the sole and final authority to select a preferred Respondent(s). In the event that negotiations with the selected Respondent(s) do not progress toward an agreement that is satisfactory to both parties, RCEA, in its sole discretion, may rescind its selection of the Respondent(s) and select another Respondent(s) to negotiate with.

Evaluation Consideration

The evaluation of SOQs will consider the following:

1. Completeness of response submission - Respondent should respond to each of the items set forth in the RFQ.

2. Experience and Qualification - Evaluation of the qualifications, expertise, and overall experience of the Respondent as well as that of the personnel specifically assigned to perform the activities described.

3. Quality and depth of references.

4. Economic feasibility and local economic development benefits.

5. Availability - Evaluation of the workload of the Respondent and the staffing/resources to be assigned to the services requested. Evaluation of the time schedule of the Respondent, and evaluation of the locations of offices and facilities from which the services are to be provided to RCEA.

6. Any other criteria RCEA deems relevant.

Respondent(s) selection will be based on, in RCEA's sole discretion, what is in the best interest of RCEA, its Members, and its constituents based on the Respondents' demonstrated competence and qualifications, experience, capacity, and other qualitative and quantitative factors RCEA deems relevant.

Agreement Negotiation

A partnership agreement(s) will be negotiated with the successful Respondent(s). The parties will decide as part of the negotiation how best to structure the legal relationship, for example project phasing based on milestones or objectives, timeline, or another project complexity. In addition, RCEA may negotiate and enter into separate and/or joint agreements with multiple Respondents to ensure the most qualified Respondent is selected for each of the three identified "Areas of Capability." There will be no binding contractual agreement between the selected firm(s) and RCEA unless and until the RCEA Board or its designee, as applicable, accepts and signs any agreement(s).

RCEA reserves the right, in its sole discretion, to terminate agreement negotiations at any time, rescind its selection of a particular Respondent and begin agreement negotiations with another Respondent.

SOQ Considerations

Rights of RCEA

RCEA's rights include, but are not limited to, the following:

- Reissuing or modifying the RFQ, and/or issuing addenda to the RFQ, including extending or revising the timeline for submittals for one, two, or all three of the "Areas of Capability" defined in the RFQ.
- Withdrawing the RFQ at any time during the procurement process.
- Requesting clarification or additional information from Respondents at any time during the procurement process.
- Execution of an agreement(s) with the successful Respondent(s) on the basis of the original responses and/or any other information submitted by the Respondents during the procurement process.
- Rejection of any or all responses, waiving irregularities in any response, accepting or rejecting all or part of any response, and waiving any requirements of the RFQ, as may be deemed in the best interest of RCEA.
- Negotiating with more than one Respondent.
- Discontinuing negotiations after commencing negotiations with a selected Respondent if progress is unsatisfactory in the sole judgment of RCEA and commencing negotiations with another qualified Respondent.

SOQ Costs

Costs of investigating, preparing, and submitting an SOQ are the sole responsibility of the Respondent and shall not be chargeable in any manner to RCEA. RCEA will not reimburse any

Respondent for any costs associated with the preparation and submission of SOQs or expenses incurred in making an oral presentation, participating in an interview, or negotiating an Agreement with RCEA regardless of whether RCEA discontinues negotiations at any time or if negotiations result in a final Agreement.

Public Nature of Response Material

All SOQs submitted in response to this RFQ, including response documents, pre-submittal and post-submittal communications with RCEA, will become the exclusive property of RCEA. SOQs and communications with RCEA are subject to disclosure in accordance with the California Public Records Act (Cal. Government Code section 6250 et seq.).

If you believe that there are portions of your SOQ that are exempt from disclosure under the Public Records Act, you must mark the specific relevant pages and portions of your SOQ as such and state the specific provision in the Public Records Act which provides the exemption as well as the factual basis for claiming the exemption. For example, if you submit trade secret information, you must plainly mark the information as “Trade Secret, Government Code Section 6254(k),” or equivalent. In all cases the main, non-confidential sections of the SOQ should contain adequate detail to characterize the Respondent’s approach and qualifications without the need to reference information the Respondent believes to qualify for confidential treatment.

The Respondent is solely responsible for identifying and labeling any information contained within an SOQ that may be subject to an exemption from public disclosure. Only those portions of a response which are actually exempt from disclosure under state law will be withheld from disclosure, regardless of whether labeled by the Respondent as exempt.

RCEA has determined that the public interest will be best served if SOQs submitted in response to this RFQ are not made available for review by other companies participating in the competitive selection process. For that reason, SOQs submitted during the RFQ process will not be made available to other Respondents or the public earlier than the date on which the RCEA selection process issues to the RCEA Board a recommendation of a company or group of companies for selection. At that time, all parts of all SOQs are subject to public disclosure excepting those portions clearly labeled or marked by the Respondent as subject to non-disclosure pursuant to state law, provided such portions are exempt.

The RCEA Executive Director may in his sole discretion after consultation with RCEA legal counsel, defer public disclosure of any or all SOQ contents until RCEA Board approval of any partnership agreement. In such event, SOQs (excepting those portions that are exempt from public disclosure pursuant to state law) shall be available for disclosure at the same time a final partnership agreement is forwarded to the Board for approval.

Prior to the date on which the Board of Directors selects its preferred Respondent(s), RCEA will limit the release of SOQ contents as described above. If at any time during or after the selection process RCEA receives a request to review and/or copy materials submitted by any Respondent that they have marked as confidential, RCEA will decline release of those materials as set out above.

If the person submitting the request files a legal action against RCEA seeking its release, RCEA will notify the affected Respondent(s) and will not oppose a motion by such Respondent(s) to intervene in the action. The Respondent(s) must either intervene or agree to pay RCEA and its agent(s) legal expenses in defending the action, including fees, if any, awarded to the plaintiff. Absent such an agreement, the RCEA will have no obligation to defend the action and may release the information sought without any liability whatsoever.

BY SUBMITTING AN SOQ, RESPONDENTS AGREE TO HOLD HARMLESS AND NOT SEEK DAMAGES AGAINST RCEA, ITS OFFICERS, EMPLOYEES AND AGENTS, OR ANY MEMBER GOVERNMENT OR RECOVERY OF ITS ATTORNEYS' FEES AS A RESULT OF ANY DISPUTE RELATED TO THE RELEASE OR WITHHOLDING OF INFORMATION SUBMITTED IN RESPONSE TO THIS RFQ.

Decision Protests

Grounds for Protest

A responsive Respondent alleging that it would have been selected for agreement negotiations but for RCEA's failure to evaluate its SOQ in accordance with applicable law, evaluation criteria, and/or decision procedures specified in this RFQ may file a protest in accordance with the procedure set forth in this section. The protest must allege: 1) that the protesting party should have been selected for negotiations; and 2) with reasonable specificity how RCEA's failure to comply with applicable law or to apply the evaluation criteria and/or selection procedures specified in this RFQ harmed the protesting party.

A responsive Respondent who fails to comply with these procedures, waives its right to protest.

No Basis for Protest

There is no basis for a protest and RCEA will not consider a protest under any of the following circumstances:

1. The protesting party did not participate as a Respondent in this solicitation.
2. The protesting party fails to allege it would have been selected for negotiations if RCEA had complied with applicable law, the evaluation criteria and/or selection procedures specified in this RFQ.
3. The protesting party fails to adequately support, through documentation or otherwise, that it would have been selected for negotiations if RCEA had complied with applicable law, the evaluation criteria and/or selection procedures specified in this RFQ.
4. The protest was not submitted within the timelines specified herein or otherwise fails to comply with these procedures.

Filing a Protest

1. Protests must be received by the Executive Director, within three (3) business days from receipt of Notice of Recommendation for Preferred Respondent(s) ("Protest Deadline"). Failure to file a protest as set forth above will result in the protest being deemed untimely and the protest will not be considered.

2. All protests must be submitted to the Executive Director at the following address:
   Redwood Coast Energy Authority
   633 3rd Street
   Eureka, CA 95501

3. The protest may be submitted by overnight courier, certified mail, or personal delivery.
4. The protest must allege: 1) that the protesting party should have been selected for negotiations; and 2) with reasonable specificity how RCEA's failure to comply with applicable law or to apply the evaluation criteria and/or selection procedures specified in this solicitation harmed the protesting party.
5. The protest must include a detailed written statement of the protest grounds and provide any documents or other information the protesting party believes is relevant to the protest.
6. A copy of the protest and all supporting documents must also be transmitted by fax or by e-mail, by or before the Protest Deadline, to the protested Respondent and any other Respondent who has a reasonable prospect of being selected for negotiations depending upon the outcome of the protest.
7. The protested Respondent may submit a written response to the protest to the RCEA Executive Director before 5:00 p.m., within two (2) working days after the Protest Deadline or after receipt of the protest, whichever is sooner (the "Response Deadline"). The response must include all supporting documentation. Material submitted after the Response Deadline will not be considered. The response must include the name, address and telephone number of the person representing the protested Respondent if different from the protested Respondent.

Protest Review Process
Upon receipt of a protest the Executive Director will:

1. Notify RCEA's General Counsel of the protest.
2. Send the protesting party an acknowledgment letter within two (2) business of the date the protest was received.
3. Forward the protest to the RCEA Board for determination.

Respondent Code of Conduct

Respondents are required to adhere to the following Respondent Code of Conduct:

- No Respondent including any member of an SOQ development team may engage in ex parte communications with RCEA staff, the SOQ review group, RCEA Board members, or elected officials of RCEA Member Governments;
- No Respondent including any member of an SOQ development team may give any gift or monetary compensation to an RCEA Board member, RCEA staff member or agent, or SOQ reviewer.

Failure to abide by the above will result in the SOQ being disqualified.

Non-discrimination

Respondents may not engage in any discriminatory hiring or employment practices and shall make personnel policies available to RCEA upon request. Respondents shall ensure equal employment opportunity based on objective standards of recruitment, selection, promotion, classification, compensation, performance evaluations, and management relations, for all employees under any contract that may result from this submittal. No person shall, on the grounds of race, color, creed, national origin, religious affiliation or non-affiliation, sex, sexual orientation, marital status, age, disability, medical condition (including but not limited to AIDS, HIV positive diagnosis or cancer), political affiliation or union membership be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any contract or agreement that may result from this submittal.