



Redwood Coast Energy Authority

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

March 9, 2021
Tuesday, 6 - 7:30 p.m.

COMMUNITY ADVISORY COMMITTEE MEETING

COVID-19 NOTICE: RCEA OFFICES ARE NOT OPEN TO THE PUBLIC

Pursuant to the Governor's Executive Order [N-29-20](#) of March 17, 2020, and the Humboldt County Health Officer's March 30, 2020, [Shelter-in-Place Order](#), the RCEA Community Advisory Committee meeting will not be convened in a physical location. Committee members will participate in the meeting via an online Zoom video conference.

To listen to the meeting by phone, call (669) 900-6833 or (253) 215-8782. Enter webinar ID: 822 2338 1610. **To watch the meeting online**, join the Zoom webinar at <https://us02web.zoom.us/j/82223381610>.

You may submit written public comment before and during the meeting by email to PublicComment@redwoodenergy.org. Please identify the agenda item number in the subject line. Comments received before the agenda item is heard will be read into the record, with a maximum allowance of approximately 500 words per comment. Comments received after the agenda item is heard and before the meeting's end will be included in the meeting record but not read aloud during the meeting.

To make a comment during the public comment periods, raise your hand in the online Zoom webinar, or press star (*) 9 on your phone to raise your hand. You will continue to hear the meeting while you wait. When it is your turn to speak, a staff member will unmute your phone or computer. You will have 3 minutes to comment.

While downloading the Zoom application may provide a better meeting experience, Zoom does not need to be installed on your computer to participate. After clicking the webinar link above, click "start from your browser."

In compliance with the Americans with Disabilities Act, any member of the public needing special accommodation to participate in this meeting or access the meeting materials should email Ltaketa@redwoodenergy.org or call (707) 269-1700 at least 3 business days before the meeting. Advance notification enables RCEA staff to make their best effort to reasonably accommodate access to this meeting and its materials while maintaining public safety.

Pursuant to Government Code section 54957.5, all writings or documents relating to any item on this agenda which have been provided to a majority of the Community Advisory Committee, including those received less than 72 hours prior to the Committee's meeting, will be made available to the public at www.redwoodenergy.org.

COMMUNITY ADVISORY COMMITTEE MEETING AGENDA

Agenda Item	What / Action	When
1. Open	Roll Call: Norman Bell Roger Hess Elizabeth Burks Richard Johnson Jerome Carman Luna Latimer Colin Fiske Dennis Leonardi, Vice Ch. Catherine Gurin Kit Mann Larry Goldberg, Chair Matty Tittmann Pam Halstead Amin Younes Chris Curran, Board liaison Review meeting agenda and goals.	6 - 6:05 (5 min.)
2. Approval of Minutes	Action: Approve minutes of January 12, 2021, CAC meeting.	6:05 - 6:10 (5 min.)
3. Non-Agenda Item Public Comment	This item is provided for the public to address the Committee on matters not on the agenda. At the end of public comments, the Committee will respond to statements, set requests requiring action to a future agenda, or refer requests to staff.	6:10 - 6:15 (5 min.)
4. RePower Humboldt Energy Strategic Plan Update	Receive twice yearly report to CAC (information only)	6:15 - 6:25 (10 min.)
4.1 CCE Program Status	Provide input to RCEA Board on balancing CCE Program financial goals	6:25 - 6:45 (20 min.)
4.2 Offshore Wind Project Update	Receive report from Tyler Studds, Ocean Winds (Information only)	6:45 - 7:05 (20 min.)
5. Time of Use Billing	Receive report on Time-of-Use billing changes (information only)	7:05 - 7:15: (10 min.)
6. Member Reports	This time is provided for Committee members to share information on topics not on the agenda. At the end of member reports, the Executive Director will set requests requiring action to a future agenda or refer requests to staff or the Board.	7:15 - 7:25 (10 min.)
7. Close & Adjourn	Summarize actions, outcomes, Board communication items, next steps	7:25 - 7:30 (5 min.)

NEXT REGULAR CAC MEETING – Tuesday, May 11, 2021, 6 - 7:30 p.m.
Location to be determined.



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COMMUNITY ADVISORY COMMITTEE MEETING

DRAFT MINUTES

January 12, 2021 - Tuesday, 6 - 7:30 p.m.

The agenda for this meeting was posted on January 9, 2021. Community Advisory Committee Chair Larry Goldberg called the meeting to order at 6:06 p.m., stating that the meeting was being conducted by teleconference pursuant to Brown Act waivers included in Governor Newsom's COVID-19 State of Emergency Executive Orders and in response to local efforts to reduce the spread of the virus. Chair Goldberg stated that the posted agenda outlined instructions for the public on listening to the meeting and providing comment.

Members present:

Norman Bell

Elizabeth Burks

Jerome Carman

Colin Fiske

Larry Goldberg, Chair

Catherine Gurin

Pam Halstead

Roger Hess

Richard Johnson

Luna Latimer

Dennis Leonardi, Vice Chair

Kit Mann

Amin Younes

Stephen Avis, Board Liaison (non-voting)

Members absent:

Matty Tittmann

Staff present:

Aisha Cissna, Regulatory and Legislative Policy Manager

Richard Engel, Power Resources Director

Derek Hilson, RCEA Staff

Matthew Marshall, Executive Director

Nancy Stephenson, Community Strategies Manager

Lori Taketa, Board Clerk

Minutes Approval

Chair Goldberg invited comment. There were no comments from CAC members or members of the public. Chair Goldberg closed the public comment period.

Motion Johnson, Second Leonardi: Approve minutes of October 13, 2020, CAC meeting.

The motion passed with a unanimous roll call vote. Ayes: Bell, Burks, Carman, Fiske, Gurin, Goldberg, Halstead, Hess, Johnson, Latimer, Leonardi, Mann, Younes. Noes: None. Abstain: None. Absent: Tittmann.

Chair Goldberg invited public comment on non-agenda items. No member of the public made comment. Chair Goldberg closed the public comment period. There were no member reports.

2021 Meeting Calendar

Executive Director Matthew Marshall reported that he observed a lack of time during quarterly CAC meetings to adequately address member-requested agenda items and described the difficulty of bringing current matters to the committee in a timely manner. CAC members had expressed a slight preference for more frequent 90-minute meetings rather than longer quarterly meetings in an informal poll. The committee discussed their meeting preferences.

Chair Goldberg invited public comment. No member of the public made comment. Chair Goldberg closed the public comment period.

Motion Mann, Second Halstead: Approve a bimonthly Community Advisory Committee meeting schedule beginning in January 2021, and request that the RCEA Board of Directors amend the Board Operating Guidelines to reflect the revised meeting schedule.

The motion passed with a unanimous roll call vote. Ayes: Bell, Burks, Carman, Fiske, Gurin, Goldberg, Halstead, Hess, Johnson, Latimer, Leonardi, Mann, Younes. Noes: None. Abstain: None. Absent: Tittmann.

CAC Chair/Vice Chair Selection

Executive Director Marshall presented a staff report on the CAC Chair and Vice Chair appointment process. To his nomination to serve as Chair, Member Leonardi replied that he would not be able to fulfil that role due to prior commitments. The group expressed a desire for continuity in leadership.

Chair Goldberg invited public comment. No member of the public made comment. Chair Goldberg closed the public comment period.

Motion Carman, Second Gurin: Appoint Larry Goldberg and Dennis Leonardi as Community Advisory Committee Chair and Vice Chair, respectively, for terms beginning April 12, 2021, and ending April 12, 2022.

The motion passed with a roll call vote. Ayes: Bell, Burks, Carman, Fiske, Gurin, Goldberg, Halstead, Hess, Johnson, Latimer, Leonardi, Mann, Younes. Noes: None. Abstain: None. Absent: Tittmann.

Countywide Climate Action Plan Development Update

RCEA Regulatory and Legislative Policy Manager Aisha Cissna reported on the Humboldt Regional Climate Action Plan (CAP). The plan's goal is for each city within Humboldt County as well as unincorporated Humboldt County areas to adopt and implement greenhouse gas (GHG) reduction measures.

In fall 2018 the jurisdictions agreed to work on a countywide plan. RCEA, with support from consultant Environmental Indicator Accounting Services (EIAS), completed greenhouse gas inventories for 1990, 2005 and 2015, and forecasted 2030 countywide emissions. RCEA and EIAS assisted the jurisdictions with developing potential GHG reduction measures and are currently working with the jurisdictions to make initial measure selections based on feasibility given the targets and deadlines.

After preparing information for presentation to the public, community workshops will be held in different locations across the county this spring to gather input from communities with different cultures and situations. The plan will go through the CEQA process, which may also involve public hearings. The benefit of doing a regional climate action plan is streamlining the GHG component of the CEQA approval process for future projects in each jurisdiction. Final CAP adoption is targeted for October 2021.

The state has aggressive targets for reducing GHG emissions in the coming years, reaching an 80% reduction below 1990 GHG emission levels by 2050. In Humboldt County, EIAS is recommending a 40% reduction below 2015 GHG levels by 2030, which is more ambitious than the state's targets but does not include industrial emissions, which are controlled at the state level.

Transportation is responsible for the majority of Humboldt County GHG emissions. Pulp and lumber mill closures accounted for most of the county's industrial emissions reductions. One challenge for the county is to reduce emissions while creating economic growth. Member Burks, who was recently selected as HCAOG's Executive Director, expressed a desire to present HCAOG's Regional Transportation Plan to the CAC to ensure that it fits well with the Regional Climate Action Plan.

CAC members were encouraged to participate in the public Climate Action Plan meetings for their areas and to provide input to the County on potential public meeting schedule conflicts with other local events. The CAC expressed interest in holding a special meeting if there is a need for additional discussion on the Humboldt Regional Climate Action Plan and specific measures.

Chair Goldberg invited public comment. No member of the public made comment. Chair Goldberg closed the public comment period.

Alternative Biomass Uses Subcommittee Draft Report to the RCEA Board

Alternative Biomass Uses Subcommittee member Kit Mann described the group's work to review potential alternative uses of the substantial volume of biomass produced by Humboldt County. Biomass energy has been the most controversial part of the RCEA Community Choice Energy program's power portfolio. The subcommittee recommends that the Board consider RCEA's involvement in facilitating development of non-energy biomass uses of both mill and in-forest biomass waste due to the agency's involvement in greenhouse gas emission reduction planning and the fire hazard posed by years of forest fire suppression practices.

The group discussed the subcommittee's involvement as a facilitator for an expert and stakeholder group to drive development of alternative biomass uses in Humboldt County. The appropriateness and nature of RCEA's involvement in forest waste

management was discussed and there was a request to create a clearer distinction between mill waste and biomass from other sources in the subcommittee report, as the waste streams present very different issues. It was clarified that the subcommittee's report ends with questions for the Board and requests for Board guidance.

Member of the public Nancy Ihara commented in support of the subcommittee's continued pursuit of finding alternative uses for biomass material. She requested the CAC recommend that the Board also support the subcommittee's continued work.

Member Bell stated he lacked a clear sense of the report's purpose.

Motion Johnson, Second Burks: Authorize the Alternative Biomass Uses Subcommittee to revise the draft report based on the CAC's discussion of January 12, 2021, and approve the Subcommittee report for presentation to the RCEA Board of Directors.

The motion passed with a supermajority in a roll call vote. Ayes: Burks, Carman, Fiske, Gurin, Goldberg, Halstead, Hess, Johnson, Latimer, Leonardi, Mann, Younes. Noes: None. Abstain: Bell. Absent: Tittmann.

RePower Humboldt Strategic Plan Status Update

Due to the lack of time, Executive Director Marshall proposed postponing the RCEA strategic plan status update to the next CAC meeting. The group agreed.

The following action items and agenda item requests were summarized:

- CAC meetings will be held bimonthly. The next meeting will be in March.
- Larry Goldberg and Dennis Leonardi were again appointed chair and vice chair.
- The Alternative Biomass Uses Subcommittee will present their report to the RCEA Board with revisions.
- Member Carmen will gather information on why vehicle emissions dipped between 1990 and 2005 then increased in 2015. The Clerk will disseminate this information to the committee and public.
- Chair Goldberg requested RCEA engagement in telecommuting expansion.
- The CAC will be notified when Climate Action Plan public meetings take place.
- Member Bell requested more frequent reports from the Executive Director on large solar, wind and wave energy development projects.
- The continuation of the Alternative Biomass Uses Subcommittee will be discussed by the subcommittee, the CAC and/or the Board at future meetings.

Community Strategies Manager Nancy Stephenson announced RCEA's community report will be published by the North Coast Journal in the next week or two.

Chair Goldberg adjourned the meeting at 7:45 p.m.

Lori Taketa
Board Clerk



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COMMUNITY ADVISORY COMMITTEE STAFF REPORT Agenda Item # 4

AGENDA DATE:	February 9, 2021
TO:	RCEA Community Advisory Committee
PREPARED BY:	Matthew Marshall, Executive Director
SUBJECT:	RePower Humboldt Energy Strategic Plan Update

SUMMARY

Following approximately nine months of analysis and gathering public input, in December of 2019 the RCEA Board adopted an update to the RePower Humboldt Plan, RCEA's comprehensive action plan for energy. The plan establishes goals and strategies to guide RCEA's work over the 2020-2030 period, and is available online at:

<https://redwoodenergy.org/wp-content/uploads/2020/06/RePower-2019-Update-FINAL-.pdf>

Staff intends to provide RePower Humboldt Plan updates every six months going forward to keep the Committee informed on implementation progress. At the meeting staff will provide a presentation on the current status of plan implementation and related activities. This will include updates on the four focus areas of the plan:

1. Regional Planning and Coordination
2. Integrated Demand Side Management
3. Low-carbon Transportation
4. Energy Generation and Utility Services.

STAFF RECOMMENDATION

N/A – Information only.

ATTACHMENTS

[RCEA Annual Community Report 2020](#), published in the North Coast Journal, February 4, 2021

Slides presented at 3/9/21 meeting.

RePower Humboldt Strategic Plan Progress Update February 2021



RCEA's RePower Humboldt Strategic Plan

Updated December 2019 – 4 focus areas:



**Regional
Planning &
Coordination**



**Energy
Generation &
Utility Services**



**Integrated
Demand Side
Management**



**Low-carbon
Transportation**

Recent successes and activities – Check out the 2020 community report:



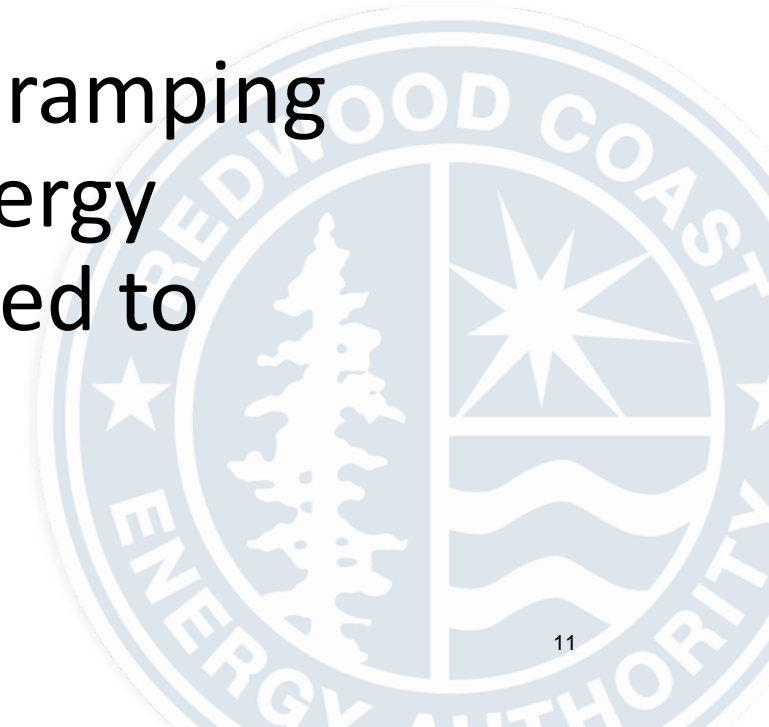
Link to the digital version at www.redwoodenergy.org



**Regional
Planning &
Coordination**

Current activities:

- Continuing work with County and Cities on regional climate action plan
- Offshore wind efforts will be ramping up, with Bureau of Ocean Energy Management process expected to begin moving again in 2021





**Low-carbon
Transportation**

Current activities:

- Working on new charging station locations – Arcata, Old Town Eureka, McKinleyville Airport
- Electric vehicle customer rebate launched
- Working on technical assistance/training for County and City staff on new building code and permitting considerations for EV charging



Energy Generation & Utility Services

Current activities:

- Airport microgrid beginning construction, local feed-in-tariff solar project progressing through permitting process.
- Pursue collaboration with PG&E on clean local power generation for resiliency in areas served by Hoopa and Willow Creek substations
- Explore clean power options for Samoa peninsula industrial development
- Pending CPUC decision on incremental capacity requirements, issue solicitation with preference for local and renewable resources



**Integrated
Demand Side
Management**

AKA:

**Customer
Energy
Solutions**

Current activities:

- Continued constraints of COVID restrictions
- Starting to roll out new 2021 program offerings:
 - CPUC “program administrator” funded
 - PG&E contract
 - Previously-approved CCE-funded programs
- Final negotiations to move forward with “behind the meter” customer storage for grid reliability program
 - Aligned with \$40million+ in state incentives reserved for Humboldt battery storage systems

Integrated Demand Side Management

- Began planning in March 2019
- Collaborating with **Rural Hard to Reach Energy Efficiency Working Group**
 - RCEA requested to serve as administrator for the State-wide partnership
- More flexible than current CPUC funding - and potentially significant increase in funding for customer programs





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**COMMUNITY ADVISORY COMMITTEE
STAFF REPORT
Agenda Item # 4.1**

AGENDA DATE:	March 9, 2021
TO:	Community Advisory Committee
PREPARED BY:	Richard Engel, Director of Power Resources
SUBJECT:	Community Choice Energy Program Status

SUMMARY

Staff and consultant The Energy Authority will provide a brief presentation on the financial goals of RCEA's community choice energy program and current financial outlook for the program. Staff will also provide information on how other California CCE programs are responding to the financial challenges presented by sharp increases in the Power Charge Indifference Adjustment fee that CCE customers pay on their utility bills and the need to stay competitive with the bundled utility rates that non-CCE participants pay.

SUBCOMMITTEE RECOMMENDATION

This agenda item will provide the CAC members with an opportunity to discuss the options RCEA has in balancing its financial goals and make recommendations to the RCEA Board of Directors.



CCE Program Status

Presentation to Community
Advisory Committee

March 9, 2021

Slides presented at 3/9/21 meeting.





Four Key CCE Program Financial Goals

From RCEA's CCE Program Launch-Period Strategy and Targets (2016)

- Deliver customer rate savings

A target of...total customer rate savings that averages at least \$2 million per year over the first 5 years, for a targeted total cumulative customer rate savings of at least \$10 million over the first 5 years of operation.

- Invest in a green power portfolio

At least 5% more renewable energy (as defined by state law) than PG&E's power mix.

- Build financial reserves

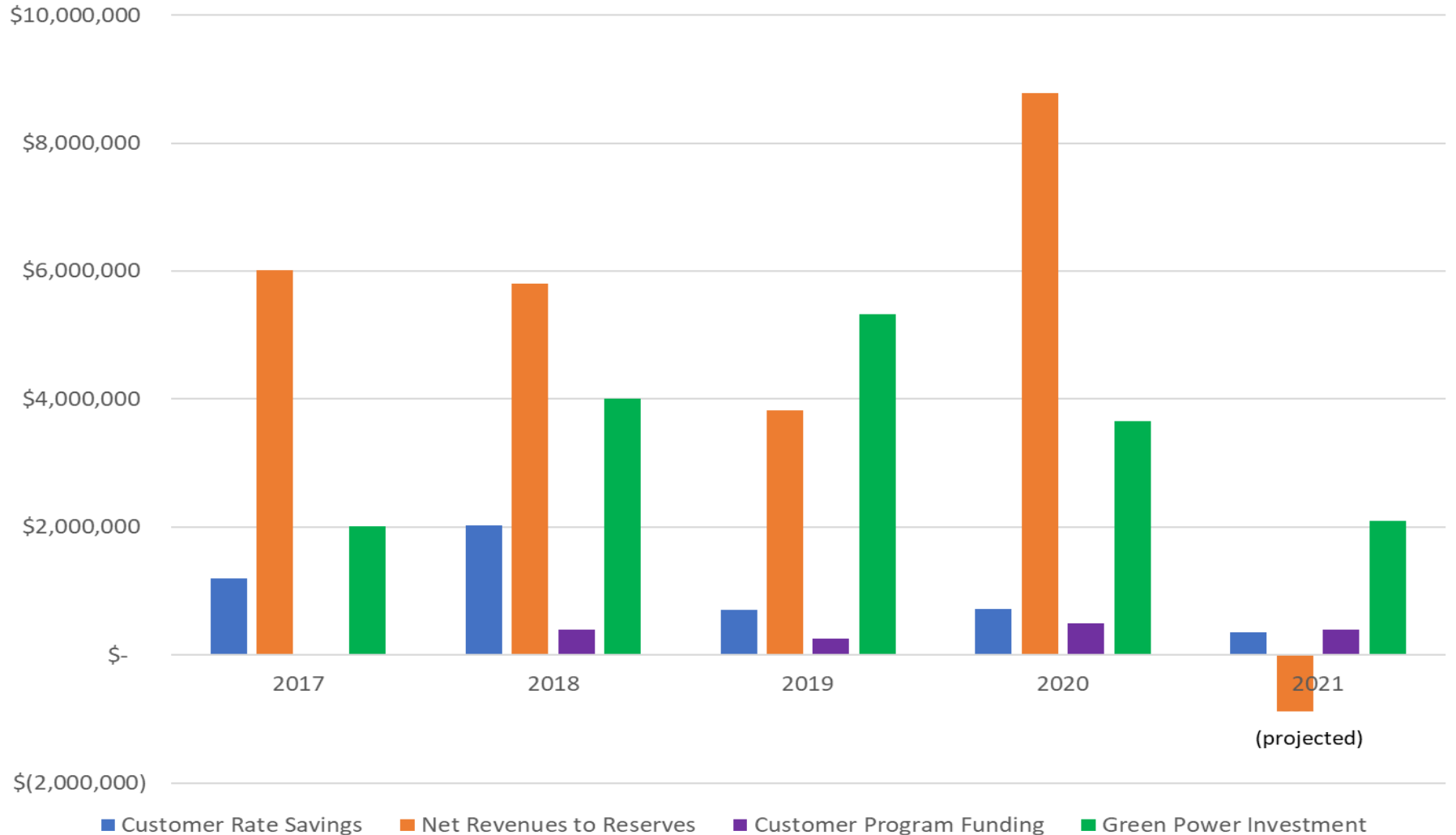
The program will target building a rate-stabilization/reserve/contingency fund of \$35 million by the end of year five under projected market conditions. The program will be designed to target a minimum reserve of at least \$10 million even under adverse market conditions. [i.e. add \$2M-\$7M/year]

- Fund customer-serving programs

Target of an initial allocation of up to \$1,000,000 per year for solar and energy storage technical assistance, electric vehicles and charging infrastructure, energy efficiency, fuel switching, and conservation; match funding for state, federal, and foundation energy grants

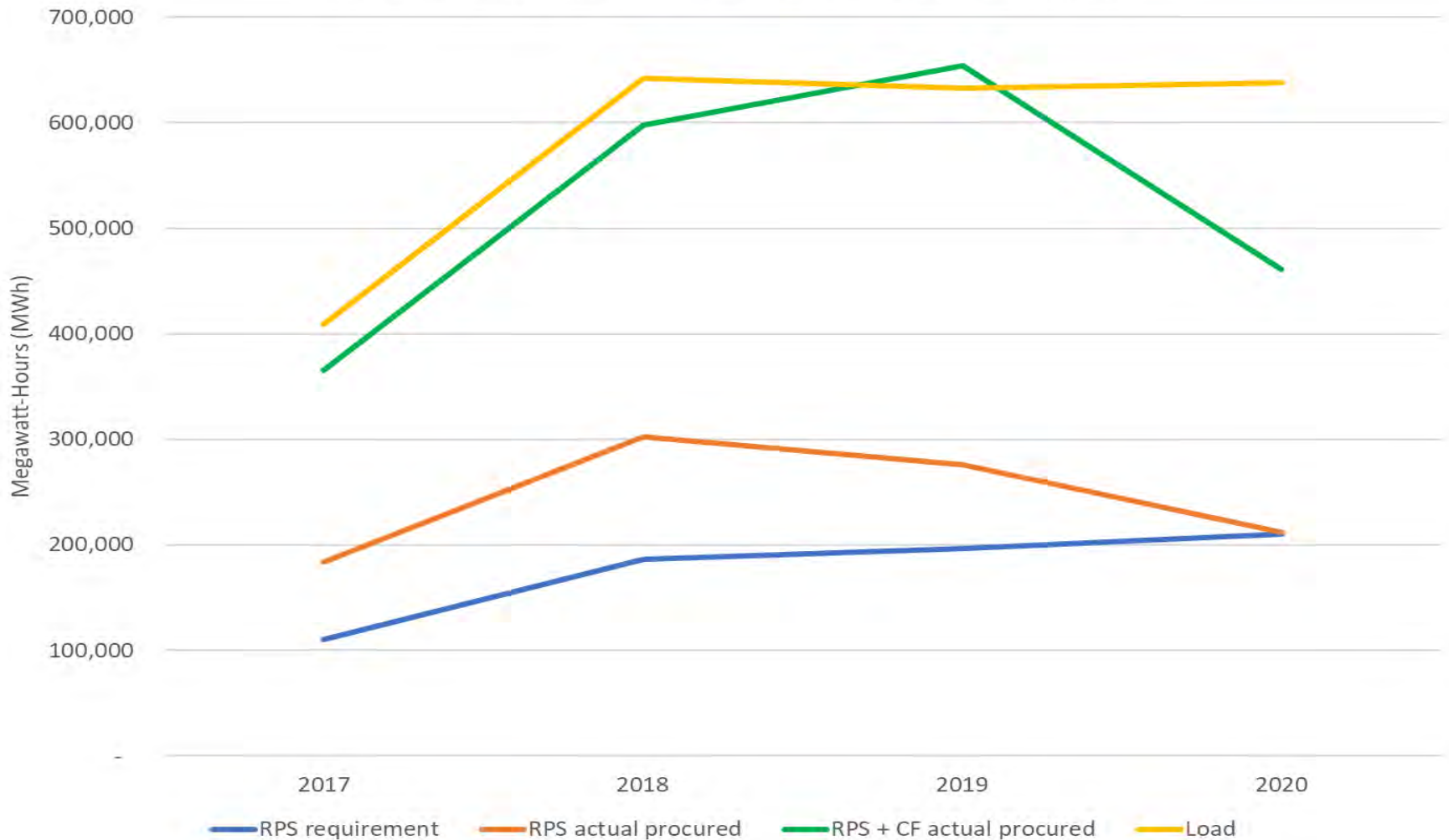


CCE Program Key Financial Metrics





Renewable and Carbon Free Power Procured





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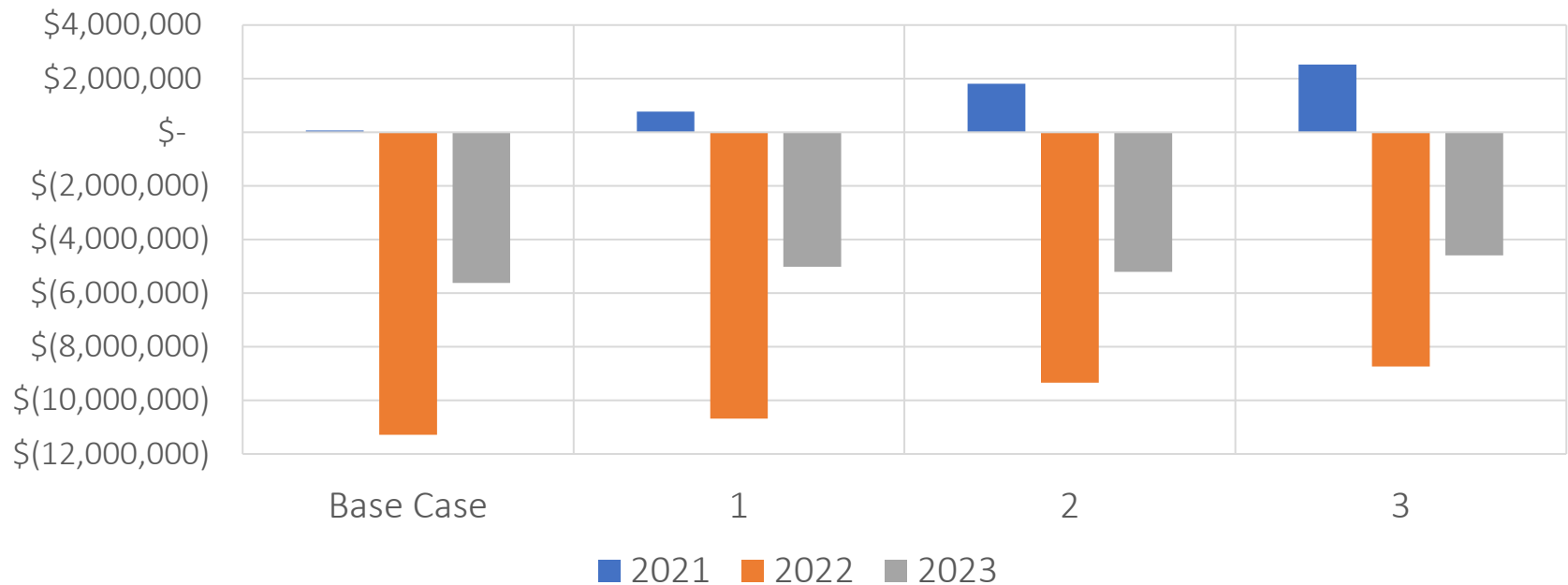
Current Program Financial Outlook

Slides from February 2021

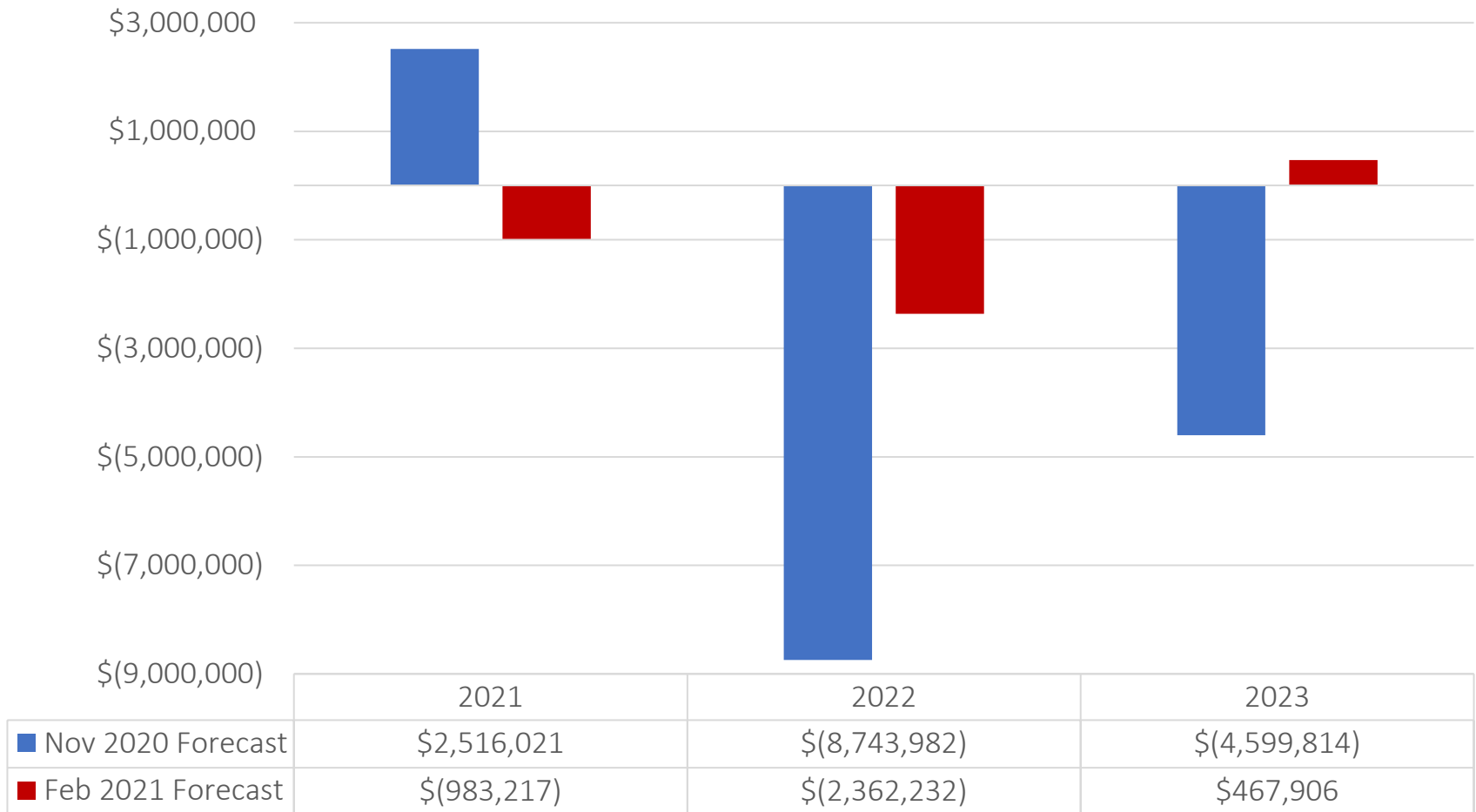
Quarterly Energy Risk Update to RCEA Board of Directors

November Board Meeting – Belt Tightening

Scenario	General Rate Discount	Renewable In-State (PCC1)	Renewable Out-of-State (PCC2)	Carbon-Free Large Hydro	Total Renewable & Carbon-Free
Base Case	1%	27%	18%	35%	80%
1	0%				
2	1%	27%	9%	0%	36%
3	0.5%				



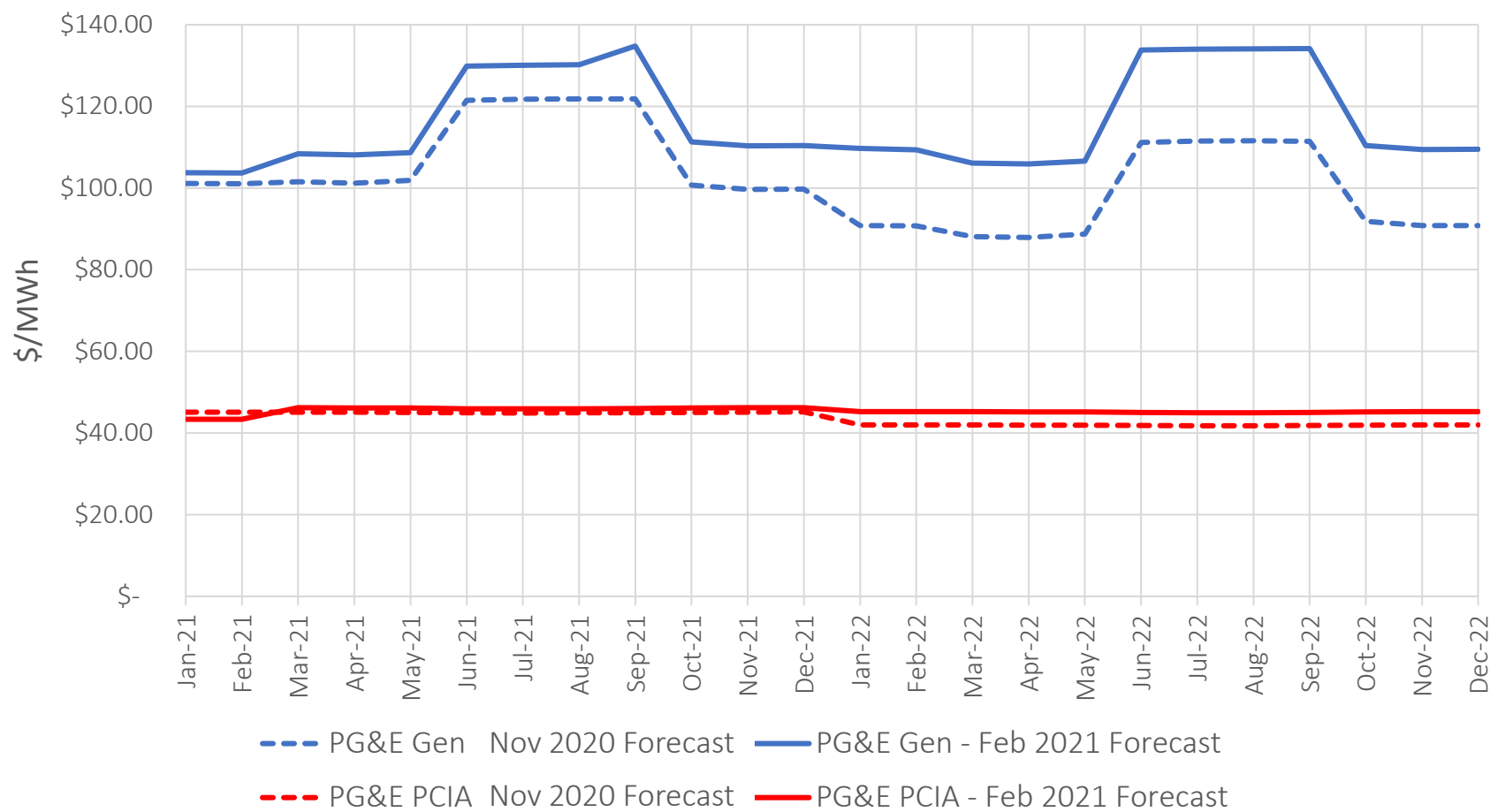
Annual Net Revenue Outlook



Financial Forecast Drivers

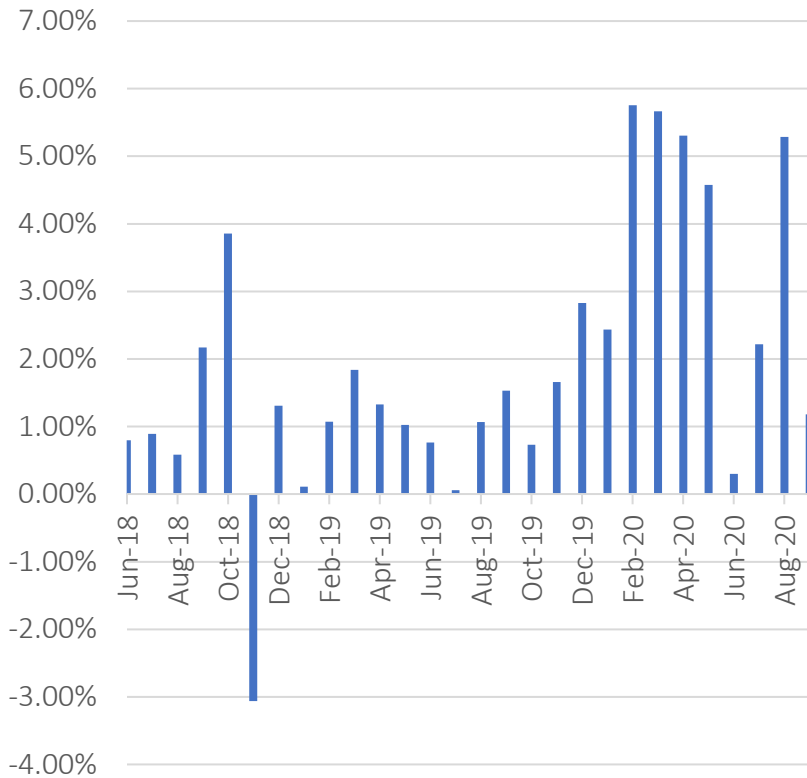
- **PG&E Rate Improvements**
 - Dramatic changes in PG&E generation & PCIA rates vs. forecast
 - 2021: mixed adjustments mostly wash out
 - 2022: ~\$8M increase in projected revenue
 - 2023: ~\$5.5M increase in projected revenue
- **2021 Environmental Products Cost Reductions**
 - Environmental Target Reduced (Nov. Board direction): \$1.8M savings
 - Renewable Energy Target = 36% (matches annual RPS compliance requirement)
 - Carbon Free Target = 36% (no compliance requirement)
- **Overdue Debt Increased in 2020 & Expected to Continue into 2021**
 - Overdue debt rose from <1% in 2019 to ~4% in 2nd half of 2020
 - Forecasting overdue debt levels to reach 5% through 2021 before receding back to 1% -> reducing net revenue ~\$1.3M in 2021
- **Summer Energy Prices Steadily Increasing**
 - Reduces net revenue ~\$1M in 2021, some reductions in 2022 & 2023

PG&E Avg. Rate Forecast

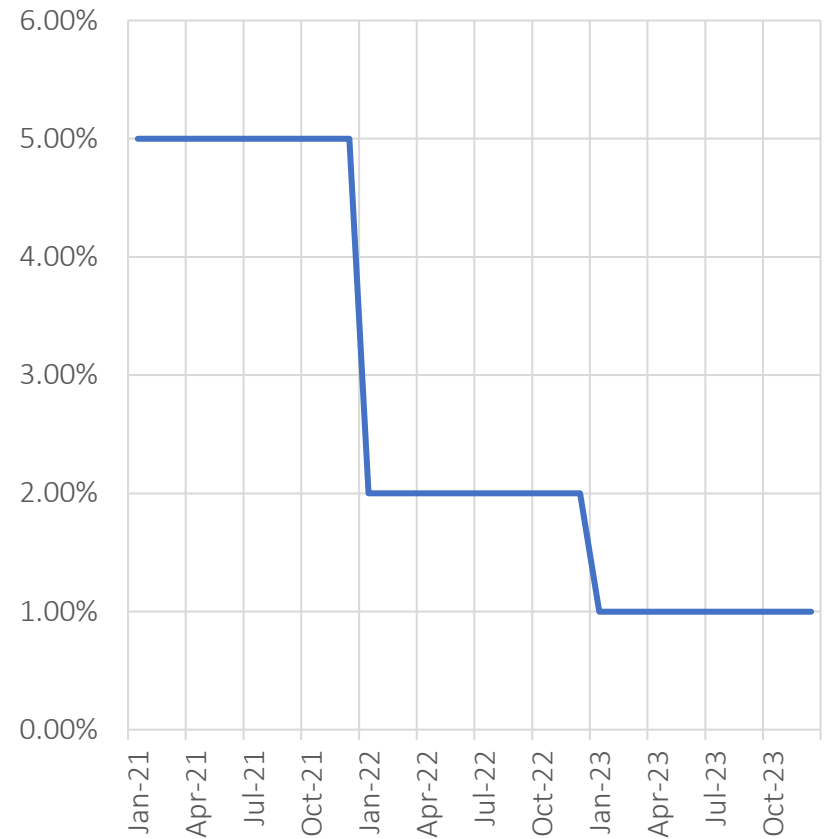


Overdue Debt

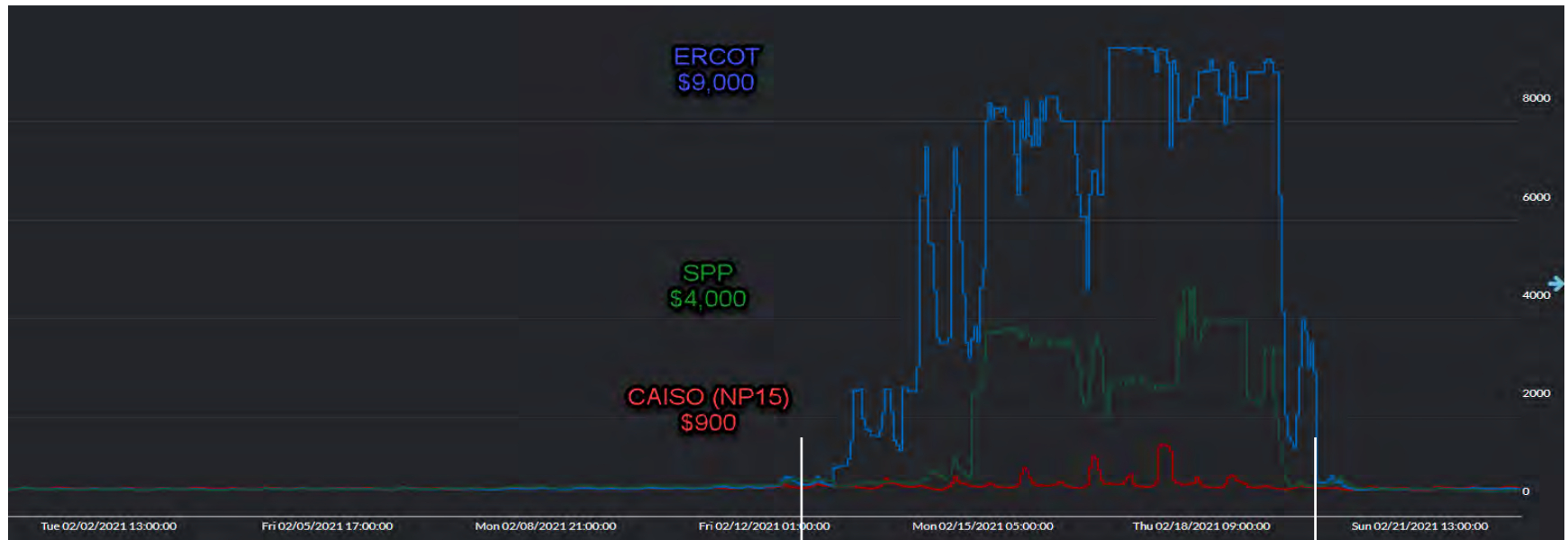
RCEA Historical >120 Days
Overdue Debt



RCEA Forecast Uncollected Debt



February 2021 Cold Snap Impacts



Friday 2/12

Saturday 2/20

- CAISO Market: loads low but pricing impacted by natural gas constraints (flowing to Texas) + reduction in imports at most major interties
- RCEA Impact: RCEA well-hedged reducing price spike impact from ~260% price increase to only ~70% price increase (compared to normal February week).
 - ~\$350k increase in net costs over course of cold snap week



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The Rate-Setting Dilemma

How other CCE programs in California
are responding



Background:

- CCA rate setting is usually based on PG&E's generation rates and the Power Charge Indifference Adjustment (PCIA)
- PCIA has recently increased significantly
- PG&E has been changing their rates multiple times per year



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CCA	Price Compared to PG&E
Sonoma Clean Power	5% above PG&E
CleanPowerSF	1% above PG&E
San Jose Clean Energy	0.25% less than PG&E
Redwood Coast Energy Authority	0.5% less than PG&E
Silicon Valley Clean Energy	1% less than PG&E
East Bay Community Energy	1% less than PG&E
Peninsula Clean Energy	5% less than PG&E

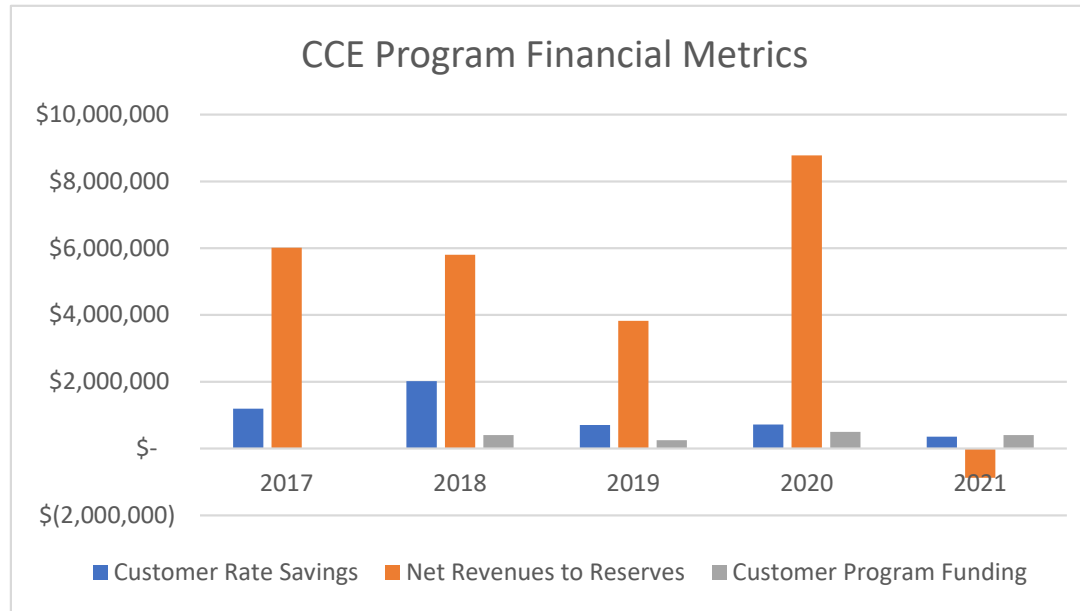


Discussion points

- Board has set rate & procurement goals for 2021: 0.5% discount and reducing green goals to state RPS requirement if needed
- Thinking beyond 2021 – how important is the rate discount in our community, relative to other program goals?
- Should RCEA consider doing as other programs have done and set rates above PG&E in order to fund other goals?
- Is it acceptable to lower short-term green energy goals for the sake of ensuring long-term program viability?

CCE Financial Metrics

	Year					
	2017		2018		2019	
Customer Rate Savings	\$	1,190,518	\$	2,018,565	\$	704,722
Net Revenues to Reserves	\$	6,013,909	\$	5,801,094	\$	3,823,427
Customer Program Funding			\$	400,000	\$	250,000
					\$	500,000
					\$	356,431
					\$	(876,220)
					\$	400,000





**COMMUNITY ADVISORY COMMITTEE
STAFF REPORT
Agenda Item # 4.2**

AGENDA DATE:	March 9, 2021
TO:	RCEA Community Advisory Committee
PREPARED BY:	Matthew Marshall, Executive Director
SUBJECT:	Offshore Wind Project Update

SUMMARY

Tyler Studds, Head of Offshore Wind Business Development – West, with Ocean Winds (formerly known as EDPR Offshore North America) will provide a presentation on the status offshore wind development on the north coast.

The brief presentation will include the current status of the federal Bureau of Ocean Energy Management offshore wind energy leasing process and an update on the Redwood Coast Offshore Wind Project, which is being pursued through a public-private partnership between RCEA, Ocean Winds, and Aker Offshore Wind.

STAFF RECOMMENDATION

N/A – Information only.

A large white offshore wind turbine is being installed in the ocean. A yellow crane is positioned around the base of the turbine. Several ships are visible in the water, including a large red tugboat and a smaller black tugboat. The background shows a coastline with hills under a cloudy sky.

Redwood Coast Offshore Wind Overview

RCEA Community Advisory Committee | February 26, 2021

Tyler Studds
Ocean Winds

Slides presented at 3/9/21 meeting.

AGENDA

The background image shows a large white floating wind turbine (VFA-3) in the middle of the ocean. The turbine has three long blades and a yellow support structure. Several support vessels are visible around the turbine, including a large red and white ship and a smaller white ship. The sky is blue with some clouds, and the water is dark blue.

1

About OW and Redwood Partnership

2

BOEM Leasing Overview

3

WindFloat Atlantic Overview

4

Q&A

AGENDA



1

About OW and Redwood Partnership

2

BOEM Leasing Overview

3

WindFloat Atlantic Overview

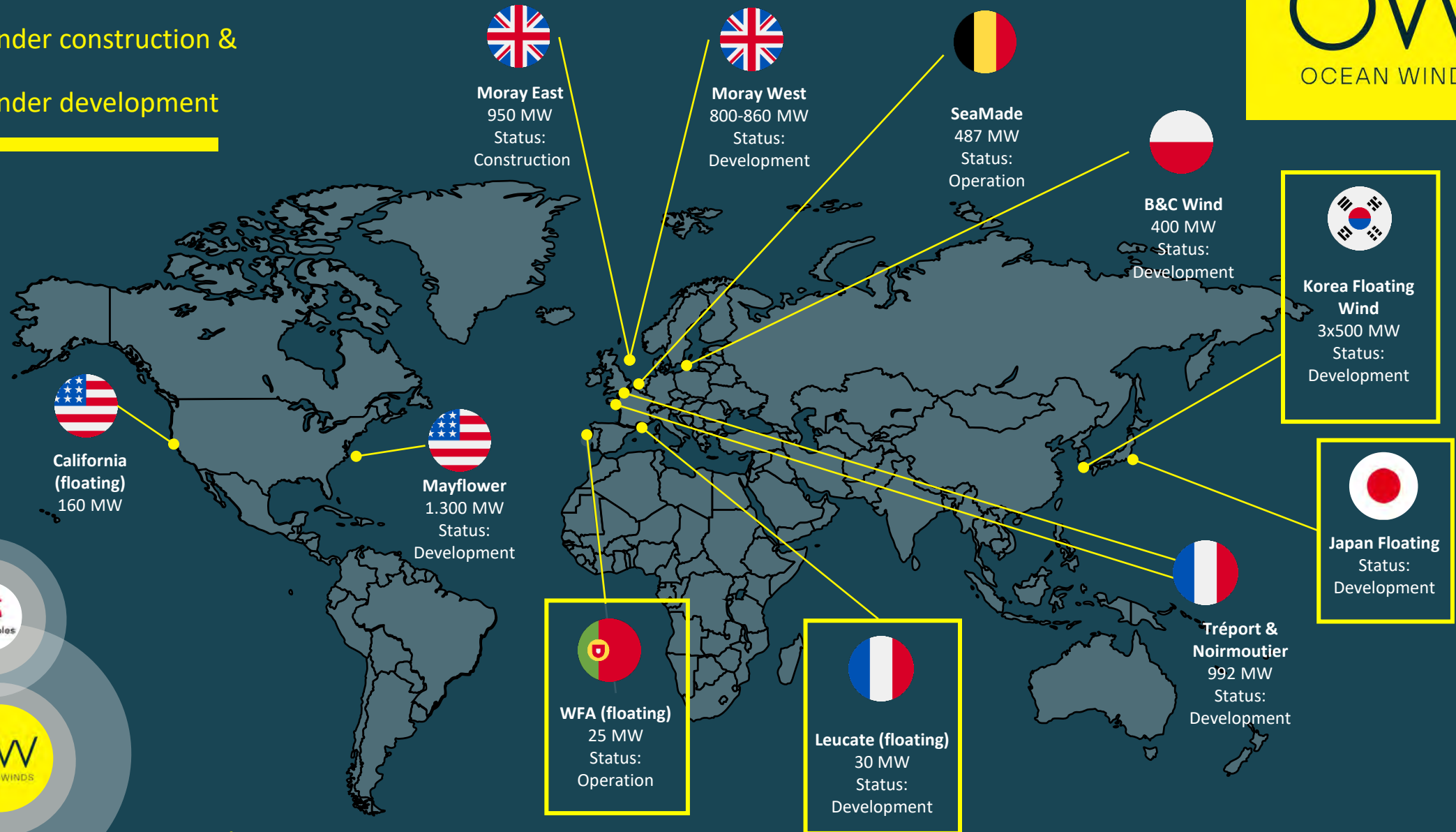
4

Q&A

OW is active in 8 countries

1500 MW under construction &

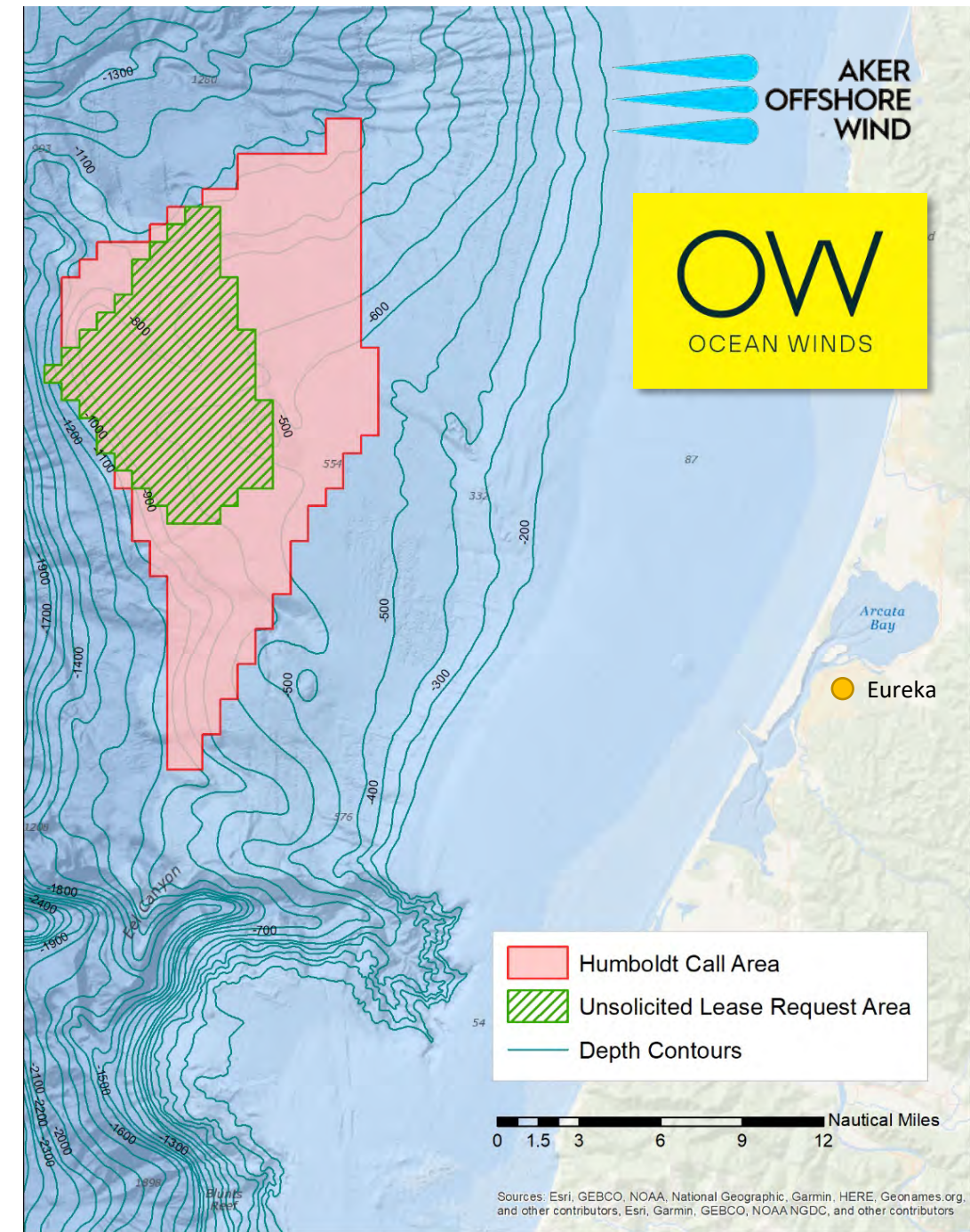
4000 MW under development



**Ocean Winds is a Joint Venture
Between EDPR and Engie**

Redwood Coast Offshore Wind

- **Partnership:** RCEA, Ocean Winds, Aker Offshore Wind
- **Location:**
 - Humboldt Call Area
 - Approx. 25 miles from Eureka, CA
- **Key Milestones**
 - Feb 2018: Team selected by RCEA in response to RFQ
 - Sept 2018: Submit BOEM unsolicited Lease Request
 - Apr 2018: Submit CAISO Grid Interconnection
 - Nov 2018: Enter Cooperation Agreement
 - Nov 2020: Redwood Coast Offshore Wind LLC formed
 - 2021: Enter PPP with RCEA
- **Project Principles**
 - Provide competitively priced renewable energy
 - Prioritize stakeholder engagement and acceptance, and actively identify and address issues of local concern
 - Maximize investment in local infrastructure
 - Maximize the Project's economic viability



Redwood Coast Site Summary

Humboldt Call Area

Area

- 130,000 Acres (similar to Mayflower Lease in MA)
- Lease size, configuration, determined by BOEM in 2021

Water Depth

- 700 to 1,100 meters
- Seismically active

Wind

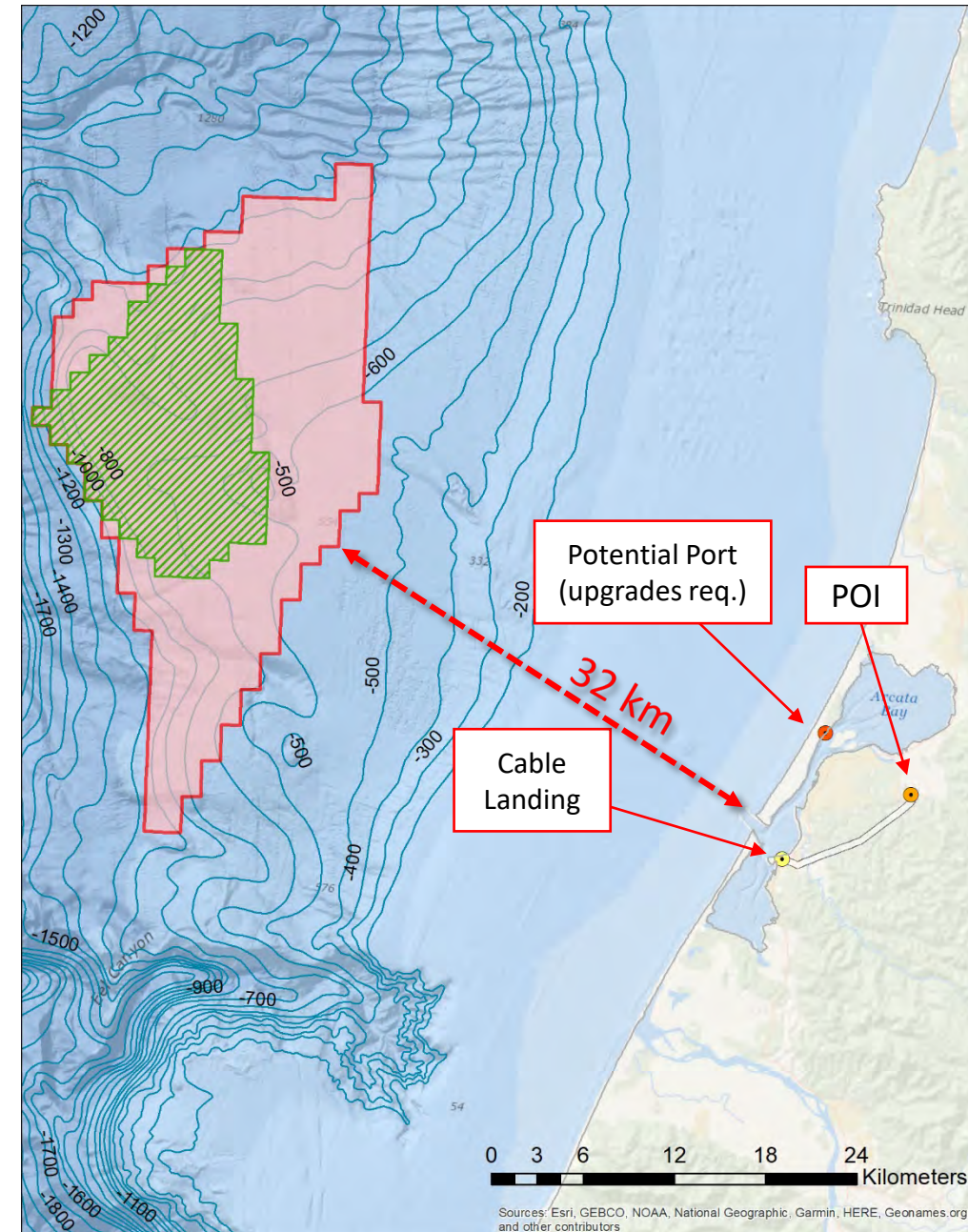
- Annual Average @ 100 m: 10-10.5 m/s
- Estimated 53% capacity factor

Grid Interconnection

- 160 MW queue position filed with CAISO
- Interconnection at Humboldt 115kV substation

Deployment Port

- No port infrastructure
- RMT 1 targeted as best site
- Upgrades required, HBHD developing conceptual plan



AGENDA

1

About OW and Redwood Partnership

2

BOEM Leasing Overview

3

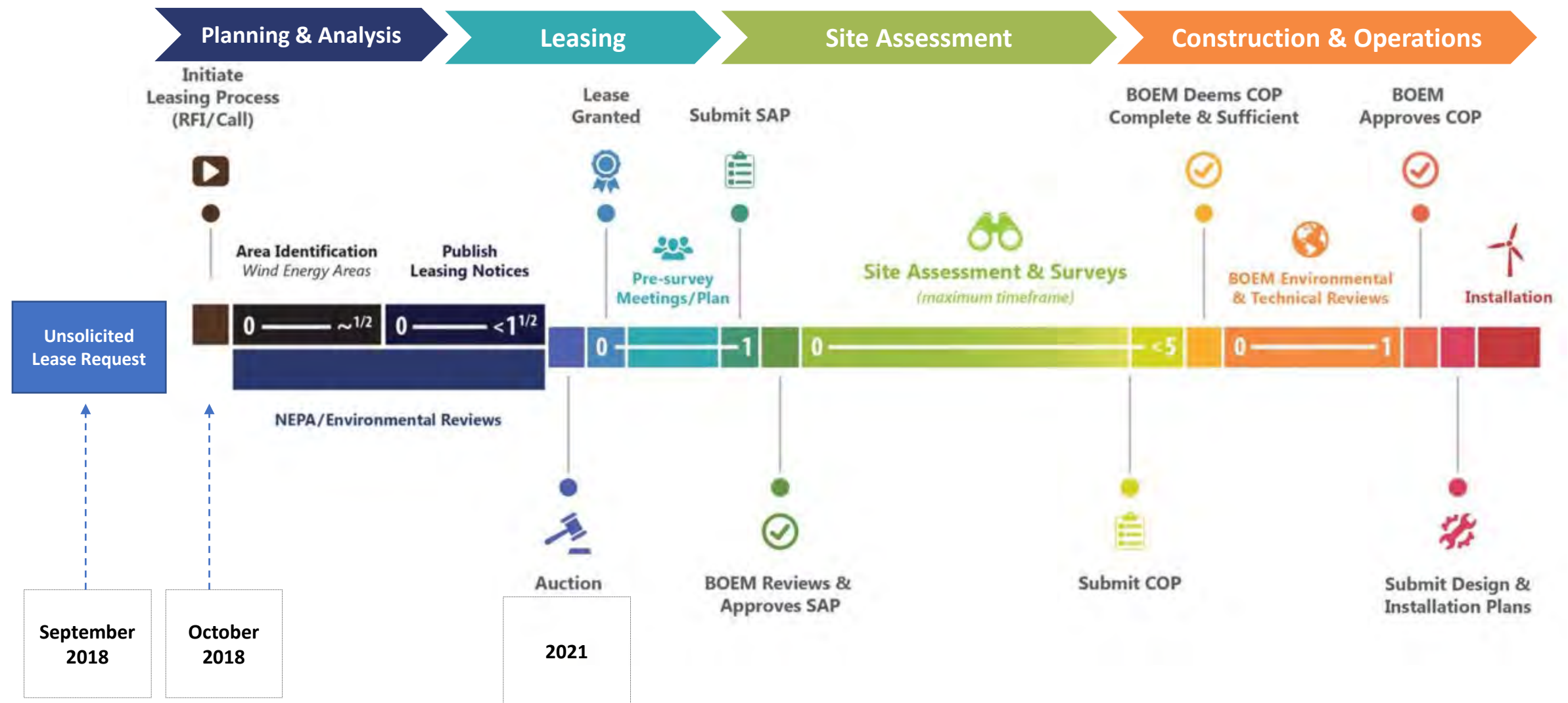
WindFloat Atlantic Overview

4

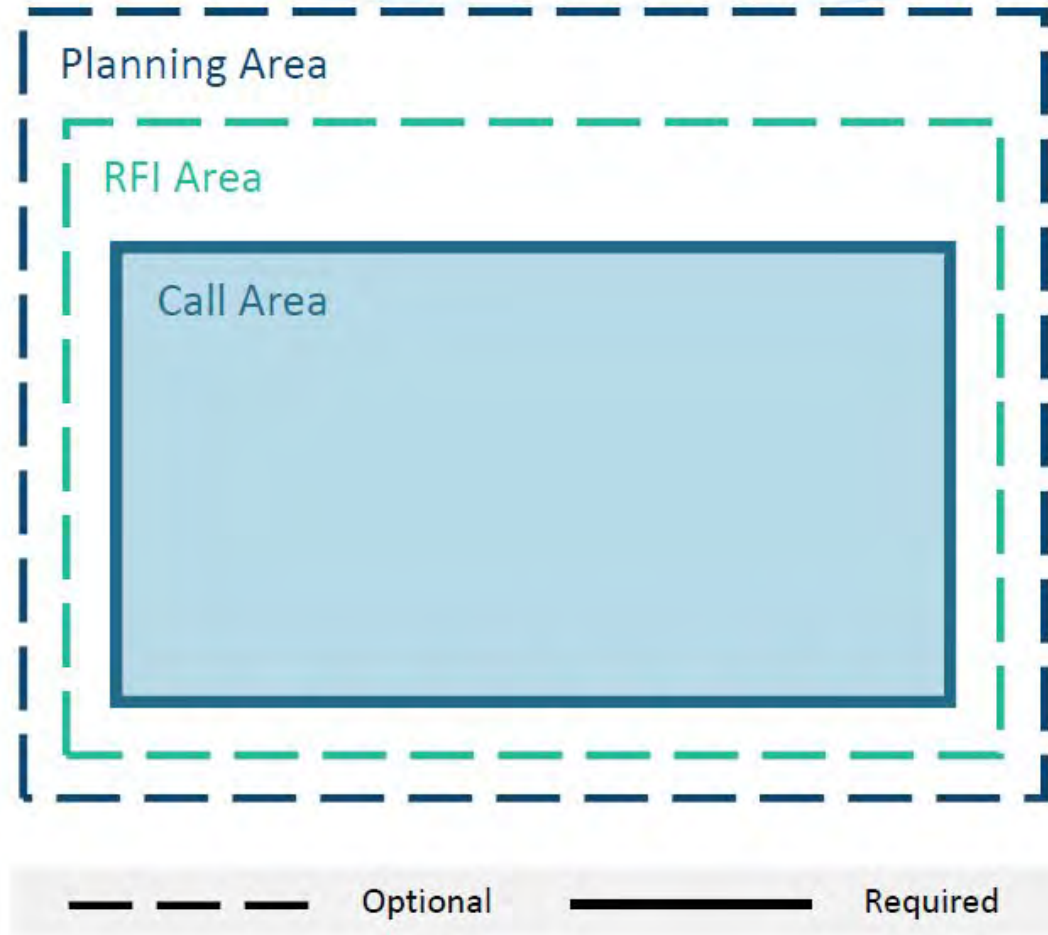
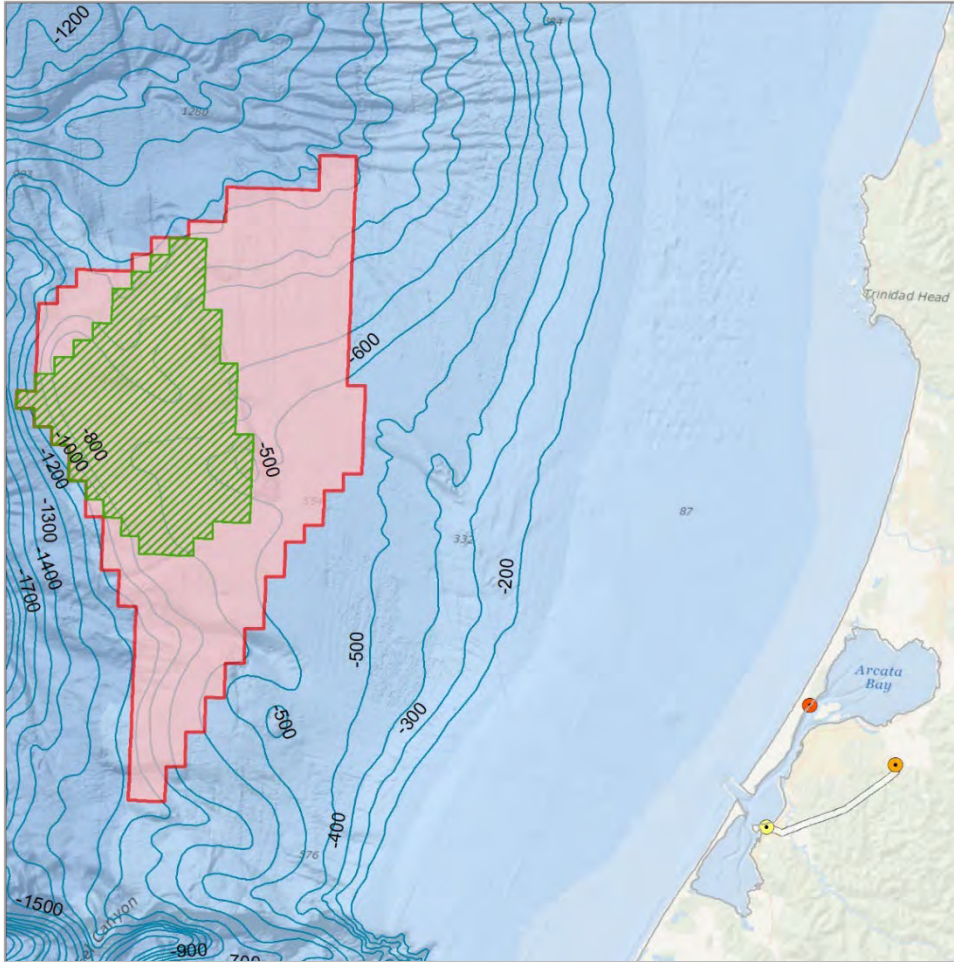
Q&A

BOEM Offshore Wind Leasing Process

General indicative timeline

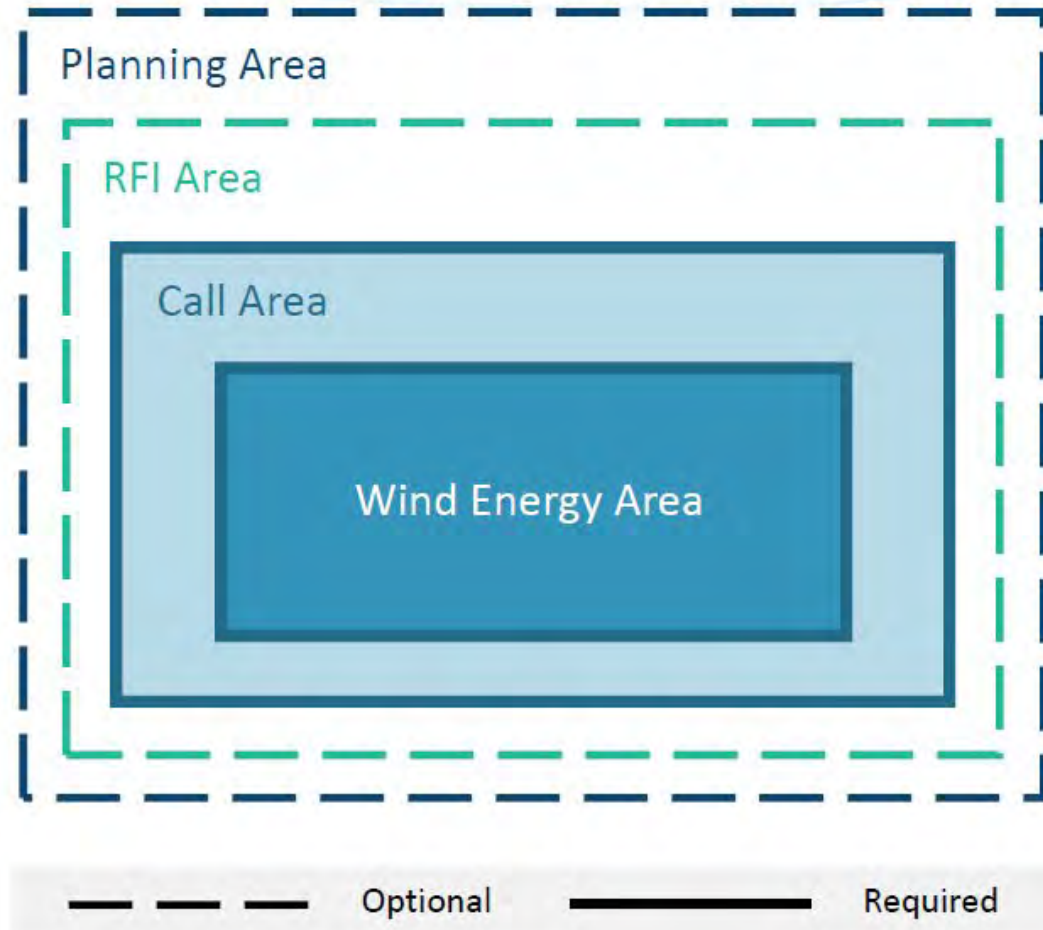


Call for Information and Nominations - Area



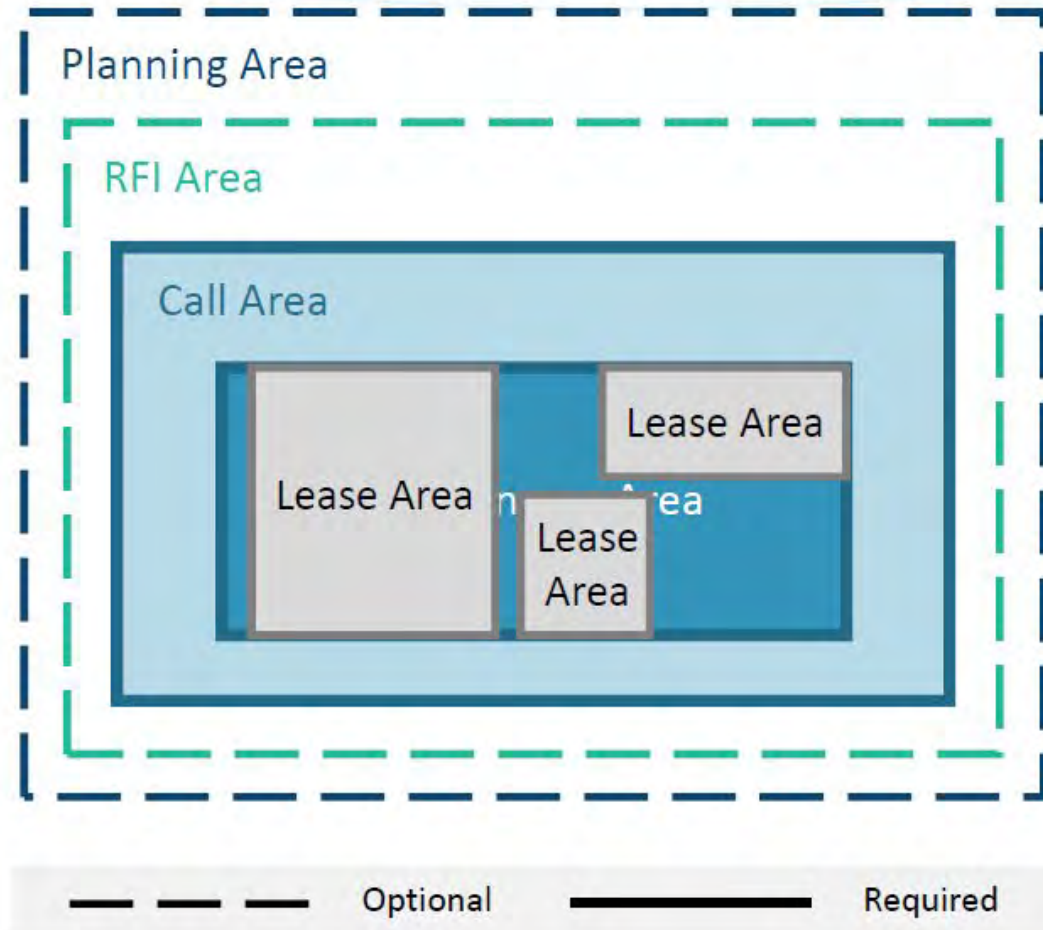
Wind Energy Area

- A portion of the Outer Continental Shelf (OCS) identified by BOEM for NEPA analysis (Environmental Assessment)
- The basis for a Lease Area



Lease Areas

- Wind Energy Areas have the potential for further division into Lease Areas



AGENDA

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About OW and Redwood Partnership

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BOEM Leasing Overview

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WindFloat Atlantic Overview

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Q&A



WindFloat Atlantic Project

Location: Portugal

Capacity: 25 MW

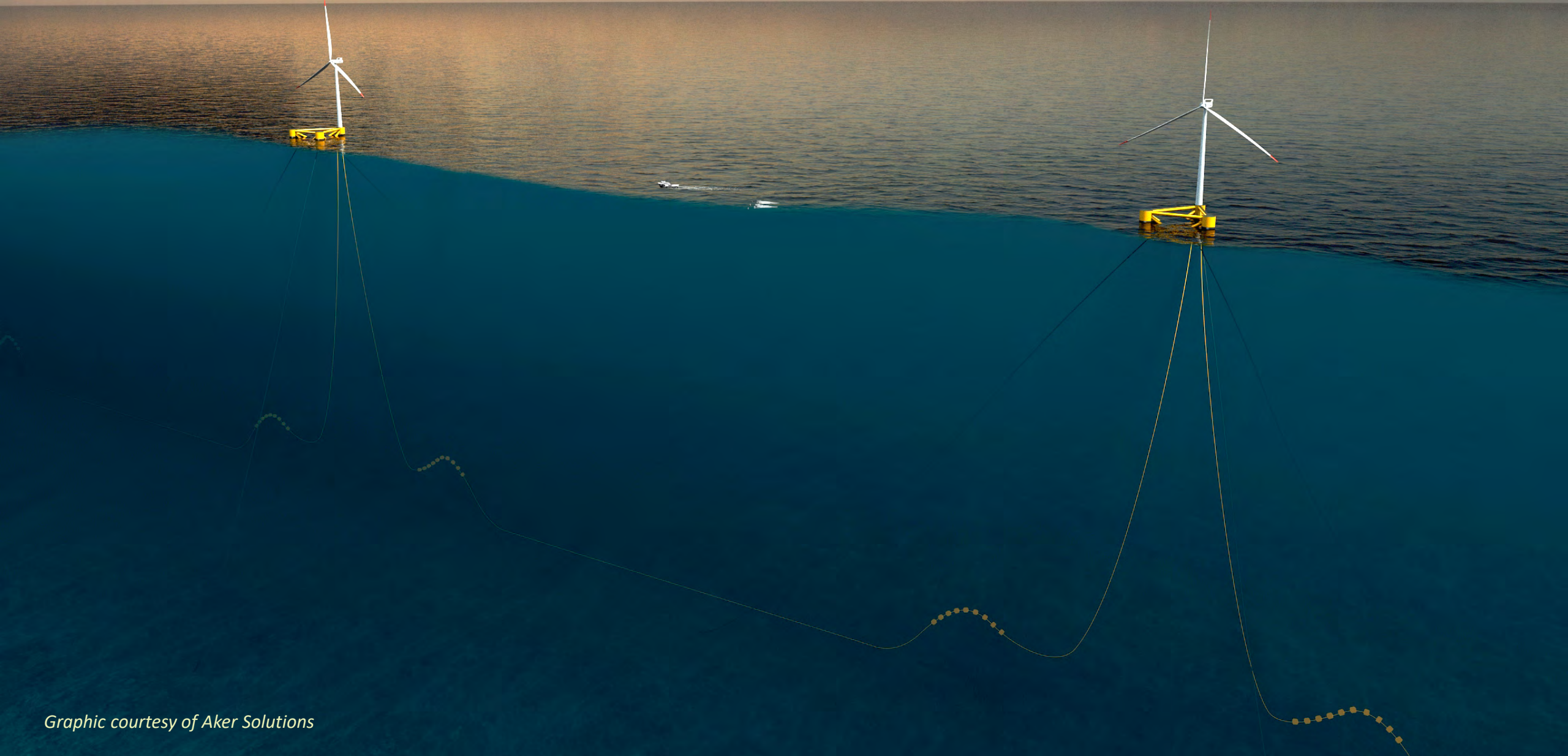
Turbines: 8.5 MW

Partners: EDPR, Engie, Repsol, PPI

Status: Fully operational in 2020

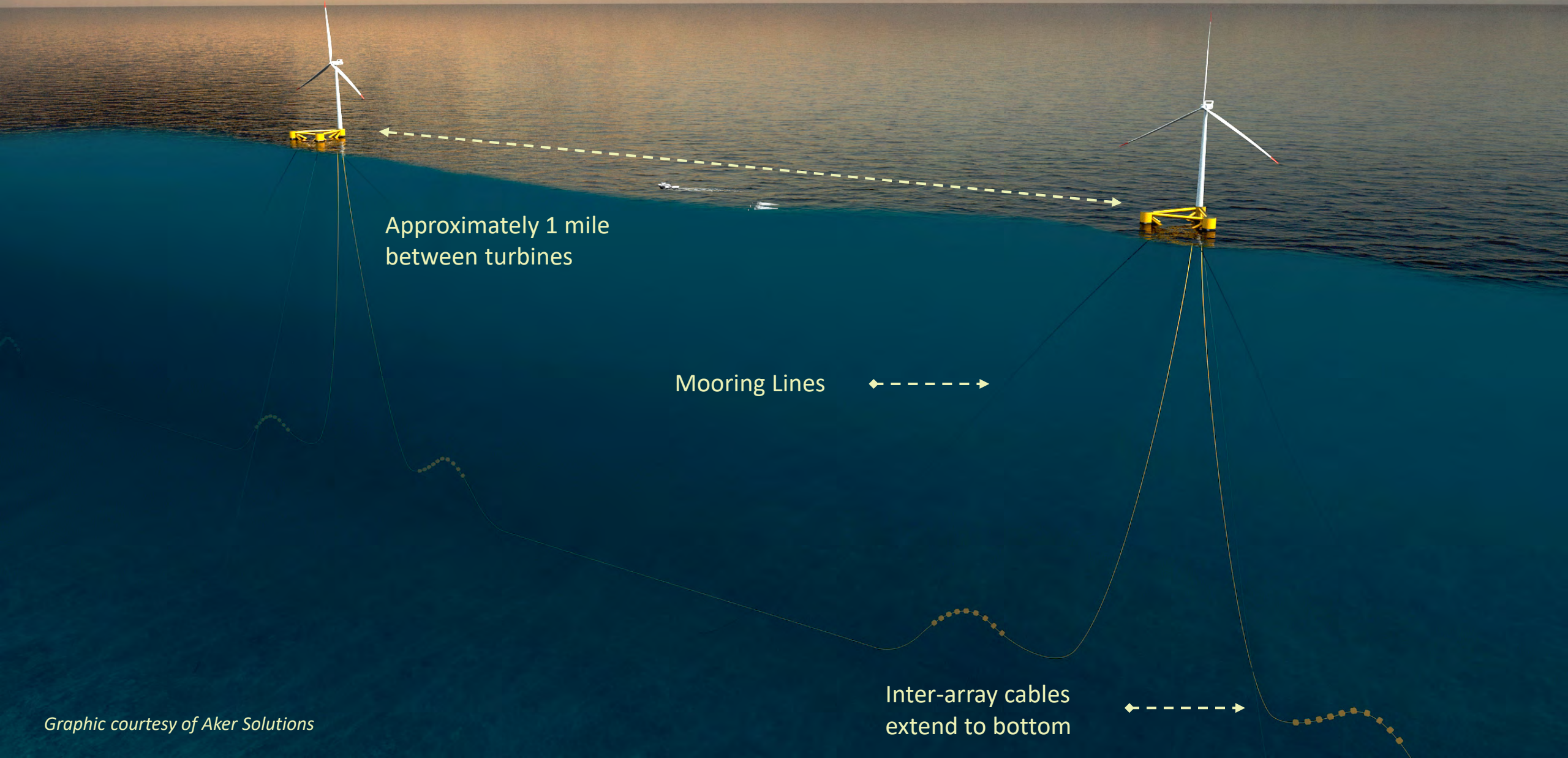
Key Fact: Funding Included loan from the European Investment Bank, first debt financing provide to floating wind

So how does floating offshore wind really work...



Graphic courtesy of Aker Solutions

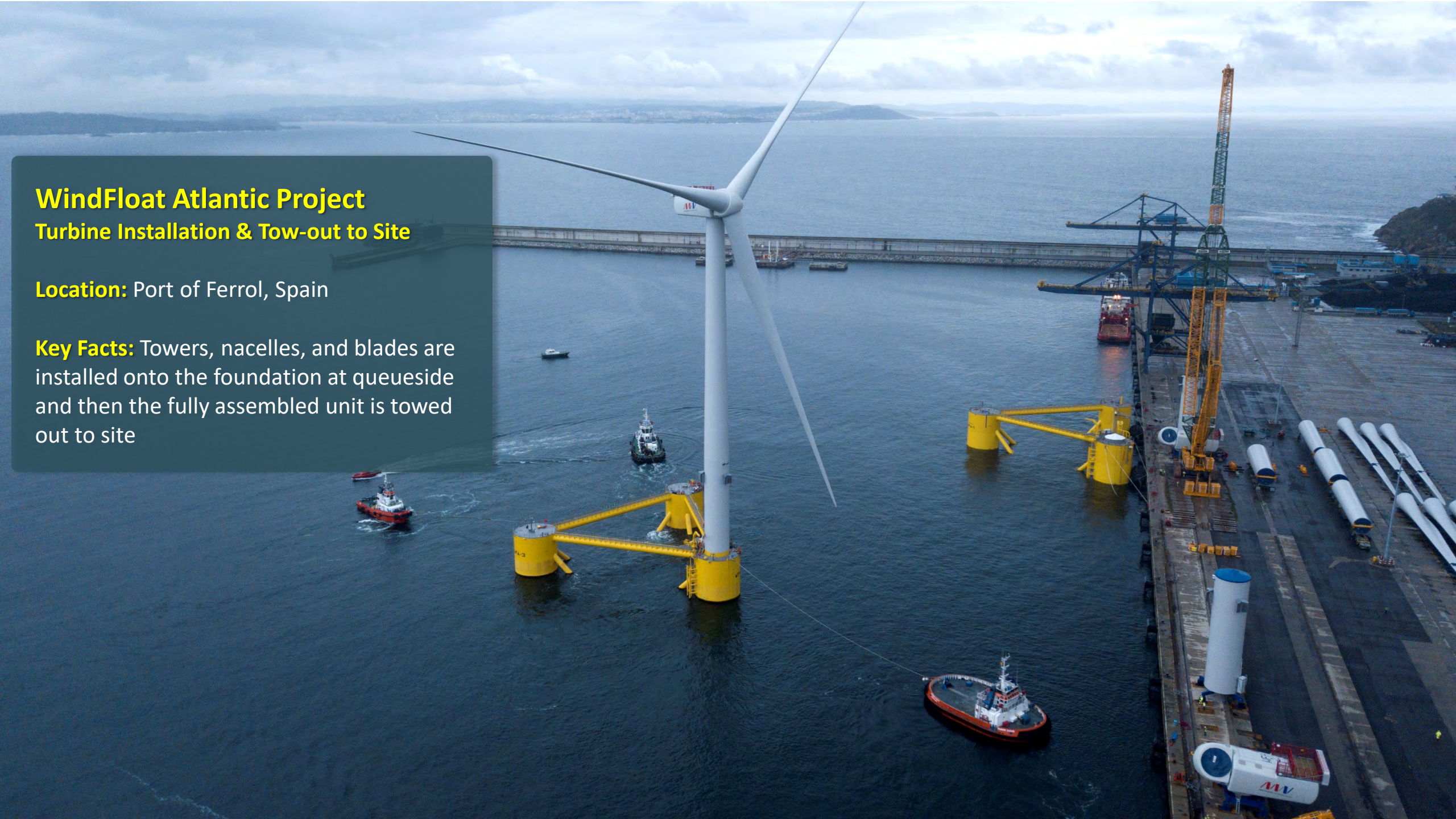
So how does floating offshore wind really work...



WindFloat Atlantic Project Turbine Installation & Tow-out to Site

Location: Port of Ferrol, Spain

Key Facts: Towers, nacelles, and blades are installed onto the foundation at queueside and then the fully assembled unit is towed out to site



Conceptual Port Design

Redwood Marine Terminal 1
Humboldt Bay, CA

Key Facts: Port facilities are key to floating offshore wind development and will attract supply chain and associated jobs, economic development



Redwood Coast Offshore Wind

Conceptual 10 turbine layout



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

AGENDA DATE:	March 9, 2021
TO:	Community Advisory Committee
PREPARED BY:	Mahayla Slackerelli, Account Services Manager
SUBJECT:	Time-of-Use Billing

SUMMARY

The California Public Utilities Commission has been directing the state towards electric rates that value the time energy is used as well as total usage. Moving Californians to time-of-use (TOU) rates will disincentive using energy at the highest demand times of day, namely the afternoon and evening, when the strain on the grid is the highest and energy generation is the most polluting.

Residential TOU Transition

Residential customers who are currently on a tiered rate, in which energy costs are the same whenever it is used, will be transitioned to a TOU rate. This transition is happening in waves throughout California. Residential customers on the North Coast will be transitioned in June 2021. Customers may choose to opt out of this transition and remain on their current rate. However, PG&E and RCEA analyses have shown that due to Humboldt County's mild climate nearly all local residents will benefit from a switch to TOU. In addition, RCEA and PG&E will be providing bill protection for customers that switch to TOU in the mass transition. For eligible customers RCEA and PG&E will review the first year of service on the new TOU rate; if the customer would have done better on their old rate, they will be credited the difference.

Non-Residential TOU Transition

In March 2021, non-residential customers in PG&E's service territory are being transitioned to a new set of TOU rates. Many commercial, industrial, and agricultural electricity customers have been on TOU rates in the past, but all non-residential customers are being transitioned to new Business TOU rates with some adjusted features. The new Business rates include later peak rates from 4 - 9 p.m., a shorter summer season from June through September and a new super off-peak rate available 9 a.m. – 2 p.m. March through May. All non-residential customers are being automatically transitioned to the new Business rates with a few exceptions. A short list of agricultural customers that will be highly impacted by the Business rates will have another year before they are automatically transitioned. Also, a small group of non-residential net energy metering customers have been offered the opportunity to remain on their legacy rates.

STAFF RECOMMENDATION

None. Information only.



Time-of-Use Transition

March 2021



REDWOOD COAST
Energy Authority



Purpose

- Statewide push to reduce load on the most expensive, dirtiest hours of the day
- Adjusting for increased solar on the grid



Residential TOU Transition

- Residential customers are being transitioned from their tiered electricity rate to TOU-C
- TOU-C is a mild TOU rate, meaning the peak is not hugely expensive compared to off-peak
- Customers can choose other TOU rates OR actively choose to stay on E-1





Residential TOU Transition

- The statewide transition is happening in waves
- Humboldt County residential customers will be transitioned June 2021
- RCEA is partnering with PG&E to spread the word
- Bill protection for the first year



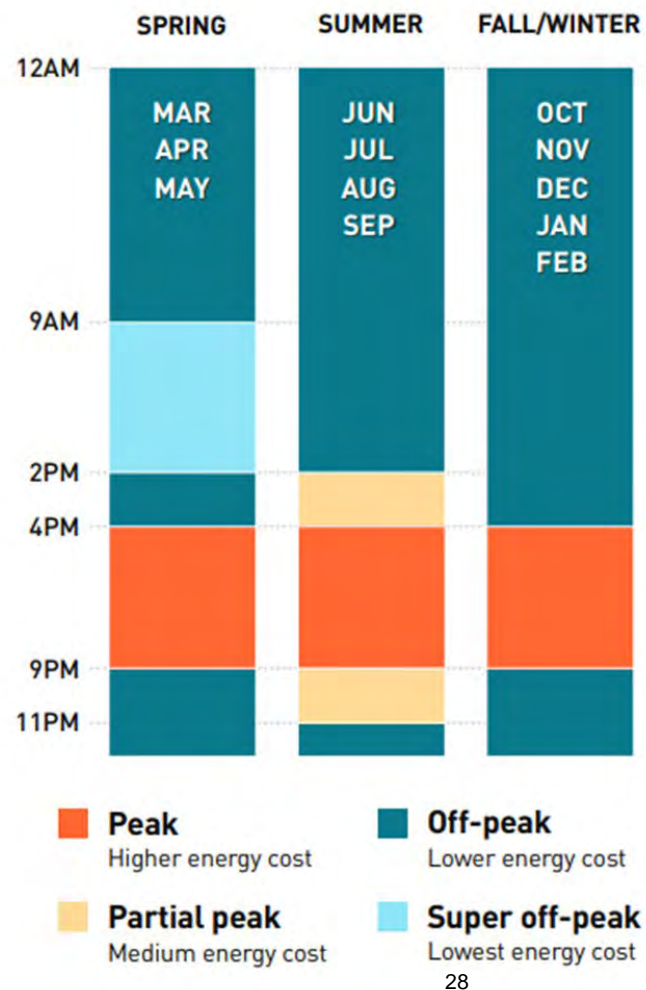
How business rate plans have changed

The steady growth of renewable energy has changed peak demand times, when rates are highest.

- New business peak hours: **4-9 p.m. every day**, starting in March 2021
- Original business peak hours: **Noon-6 p.m. in summer**
- Now the summer rates last for just four months, instead of six
- If you look at the new rate plans and see one that's a good fit for your business, you can enroll early, in November 2019

How the new rate periods compare to the original rate periods

- New business rate plans have a new super off-peak period, when prices will be at their lowest, during spring months
 - ♦ 9 a.m.-2 p.m. every day, from March through May
- There are also partial-peak periods during summer months only
 - ♦ 2-4 p.m. and 9-11 p.m. every day, June through September





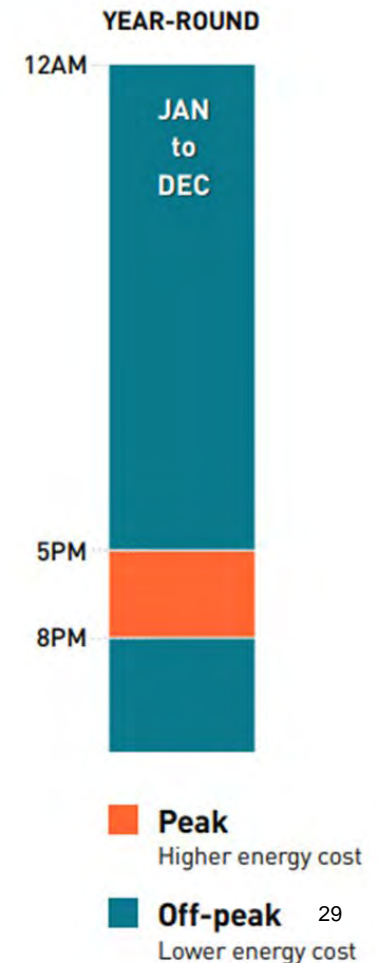
How agriculture rate plans are changing

The growth of renewable energy has affected peak demand times for agriculture too. So the times when rates are highest have shifted.

- New agriculture peak hours: **5-8 p.m. every day** for most customers, starting in March 2021
- Original agriculture peak hours: **Noon-6 p.m. in summer**
- If you look at the new rate plans and see one that's a good fit for your business, you can enroll early, in March 2020

How the original agriculture rate periods compare to the new rate periods

- Agriculture rate plans feature a June through September summer season, with no super off-peak or partial-peak periods.
- There are also three pre-defined rate options available if you can limit your operating hours to certain days of the week.
 - ♦ Option 1: off-peak days are Wednesday and Thursday
 - ♦ Option 2: off-peak days are Saturday and Sunday
 - ♦ Option 3: off-peak days are Monday and Friday





Community Choice Energy
Lower rates. Local control. Same reliable service.

Thank you

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