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CALIFORNIA ENERGY COMMISSION

COMMISSIONER WORKSHOP

In the matter of,) Docket No. 17-MISC-01
)
Workshop on AB 525) RE: Offshore Wind
Strategic plan)

REMOTE VIA ZOOM VIRTUAL MEETING

THURSDAY, MARCH 3, 2022

1:00 P.M.

Reported By:
Martha Nelson

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David Hochschild, Chair
Siva Gunda, Vice Chair
Jim Bartridge
Eli Harland
Rhetta deMesa
Scott Flint

Public Utilities Commission

Alice Reynolds, President
Clifford Rechtschaffen, Commissioner
Darcie Houck, Commissioner
John Reynolds, Commissioner

California Coastal Commission

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P R O C E E D I N G S

1
2 March 3, 2022

1:02 P.M.

3 MR. BARTRIDGE: Well good afternoon, everyone.

4 I'm JB with the Energy Commission's Siting,
5 Transmission, and Environmental Protection division.
6 Welcome to today's workshop focused on Assembly Bill 525
7 and developing a strategic plan for offshore wind energy
8 planning goals in California. Today we'll explore the
9 AB525 requirements that direct the energy commission to
10 evaluate and quantify the maximum feasible capacity of
11 offshore wind in California and establish offshore wind
12 planning goals for 2030 and 2045. We'll also hear from
13 the Bureau of Ocean Energy Management, or BOEM, on their
14 California leasing activities.

15 Please note that to make the Energy Commission's
16 workshop more accessible, Zoom closed captioning has
17 been enabled. Attendees can use the service by clicking
18 on the live transcript icon, and then choosing either
19 show subtitle, or view full transcript.

20 The closed captioning service can be stopped by
21 exiting out of the live transcript or selecting the hide
22 subtitle icon. Closed captioning cannot be exited by
23 phone.

24 Next slide please.

25 Okay, in today's workshop we'll start with

1 opening remarks from agency leadership. We'll then hear
2 State Agency updates on recent California offshore wind
3 activities by Eli Harland from the Energy Commission.
4 Following Eli, the Bureau of Ocean Energy Management or
5 BOEM, will give a presentation on the Federal wind
6 leasing activities in California.

7 And finally, we'll close out the afternoon with
8 CEC staff presenting on AB525 and the approach for
9 setting offshore wind planning goals. Before we get
10 started, let's take care of some administrative matters.
11 Please be advised that while CPUC Commissioners are
12 present at the workshop, the PUC's rules governing ex
13 party contacts with Commissioners and their staff remain
14 in effect, even though this is a CEC initiated and
15 noticed workshop.

16 We are gathering fully remote consistent with
17 Assembly Bill 361 as extended by Governor Newsome's
18 executive order N122. This meeting is being recorded,
19 and the link to this recording will be posted on the
20 Energy Commission's website.

21 We have also enabled the Zoom closed captioning,
22 we'll put instructions about how to use it in the chat.
23 There will be opportunities for public comment
24 throughout the afternoon, and we're using the raised
25 hand feature and will provide instructions for public

1 comment at that time.

2 So with that, I'll ask agency leadership to turn
3 on their cameras, and I'll turn it over to Commissioner
4 Douglas and others for opening remarks.

5 COMMISSIONER DOUGLAS: All right, well, thank
6 you so much, Jim. Good afternoon everybody, and welcome
7 to the Energy Commission's workshop on Assembly Bill
8 525, Strategic Plan for Offshore Wind Energy Goals. And
9 on other topical offshore wind topics that that we're
10 going to cover today.

11 I'm joined — I'm a Commissioner at the
12 California Energy Commission, I've been taking point on
13 offshore wind, with the great partnership and
14 collaboration of many state agencies, commissions, and
15 departments over the last couple years and I'm pleased
16 to be joined today by a very distinguished panel of some
17 of our agency partners, and on the virtual dais.

18 This a really exciting time for offshore wind in
19 California. It's also a very busy time for California
20 agencies, stakeholders, and really all interested
21 parties in offshore wind. There's been a tremendous
22 amount of inter-agency collaboration around many key
23 activities that are going forward in parallel
24 timeframes.

25 Today we have a primary focus on AB 525, it's

1 specifically the first deliverable under that bill,
2 which is the proposal and adoption by June 1 of this
3 year of a set of targets for the strategic plan on
4 offshore wind. But we are also going to be – we've also
5 asked the Bureau of Ocean Energy Management to provide
6 an update on their California activities with respect to
7 leasing.

8 And, um, because of these parallel processes
9 with the BOEM process, and the state's planning work for
10 offshore wind, we have opened up and invite – opened up
11 the docket and invited the public to submit comment on
12 not only the strategic plan, but anything additional
13 related to the more immediate leasing processes.

14 So we definitely invite and welcome comments on
15 all of the topics that we're covering today, and um,
16 just in close on my opening comments, I want to
17 highlight and acknowledge the staff that has worked on
18 making this workshop possible. The team and the Energy
19 Commission STEP Division, Rhetta deMesa, Scott Flint,
20 Jim Bartridge, Eric and Erica Brand, the Planning Office
21 team and – and most definitely my advisors who put in
22 some very late hours to help get everything ready. The
23 CPUC team Neil Raffan, David Withrow and – and broadly
24 the IRB team at the CPUC. Our agency partners at Ocean
25 Protection Councils, the CDFW State Lands Commission,

1 Coastal Commission, Office of the Planning and Research,
2 the Workforce Development Board, and the Labor Agency,
3 among others.

4 Lastly, I just wanted to highlight – there are
5 new developments, seems almost every minute in the
6 offshore wind space and certainly last week when we
7 watched the New York Bight auction results come in.
8 That raised a lot of questions and raised a lot of
9 thoughts and considerations for us and I just want to
10 emphasize the importance to everybody, of understanding
11 the California market context, the California
12 infrastructure needs, in terms of this new industry and,
13 finding ways the ways that we can to ensure that
14 projects are able to be competitive in the California
15 market, while providing some of the many and important
16 values that offshore wind can provide in California.

17 And I don't know if any of my colleagues have
18 additional thoughts on that, but we certainly again
19 welcome comments on that topic as well. And – and so
20 with that, I will turn this over to my colleagues for
21 any opening remarks that they'd like to make, and let me
22 just quickly see if the Chair, I think he's going to
23 join at some point, but Chair Hochschild are you on
24 right now?

25 Alright let me pass it then to CEC commissioner

1 Siva Gunda.

2 COMMISSIONER GUNDA: Thank you Commissioner
3 Douglas, thanks for the opportunity to join this
4 workshop. You've set it up really well, I just want to
5 thank all the colleagues and the dais and all of the
6 staff for pulling this together.

7 Just as a weird background, as we go into this
8 workshop, I just wanted to remind for ah the SB 100 work
9 that you know the joint agencies have done and published
10 last year, the report the offshore wind capacity that
11 was allowed as a candidate resource with approximately
12 10 gigs, and even in the core scenario of 10 gigs of the
13 offshore wind was selected based on the cost curves and
14 the generation profiles that were assumed in the
15 previous report.

16 So just wanted to share that you know offshore
17 wind is an important element of the resource mix as we
18 think through the SB 100 lens. And even under you know,
19 the current RPS in a counterfactual case of 60% RPS by
20 2030 and then you keep that, feed that till 2045, you
21 still need offshore wind and approximately six gigs of
22 that to even make that happen.

23 So, just really excited about this progress, and
24 Commissioner Douglass thank you for your leadership in
25 this space, and look forward to listening to the

1 workshop and learning. Thank you.

2 COMMISSIONER DOUGLAS: Thank you so much, thanks
3 for being here. Moving on to the CPUC, I first wanted
4 to invite Commissioner Rechtschaffen whose, who leads
5 the IRP at the CPUC, if you'd like to make any opening
6 comments?

7 COMMISSIONER RECHSCHAFFEN: Thank you comm-
8 (clears throat)thank you Commissioner Douglas, and thank
9 you very much your leadership, on this. It's been
10 extraordinary. I agree with you, it's a very exciting
11 time. Things are moving fast and that's generally
12 that's very, very good, they're moving in the right
13 direction.

14 We've had an unprecedented level of interagency
15 coordination, which is great, and necessary, cause
16 there's a lot of moving parts here. We've been working
17 through our IRP process to incorporate offshore wind. I
18 won't repeat what we've said at other workshops. I do
19 want to know, we had a half day workshop just laying out
20 sort of the road map for what we need to do with the PUC
21 to make sure that offshore wind is fully incorporated in
22 our processes.

23 We have a proposed decision that we issued last
24 month, in which we included a preferred system plan that
25 had about 1.7 gigawatts of offshore wind online by 2032.

1 That's not a procurement mandate, that's just a planning
2 exercise, very important step forward. We've also asked
3 the CAISO to evaluate the transmission necessary to
4 serve 8 gigawatts of - of offshore wind into our system.

5 So we're certainly moving forward. We
6 absolutely need to maintain our focus on doing this at
7 reasonable cost, and the IRP process is a technology
8 neutral process, it searches for least cost solutions.
9 When we model cost we include estimates in different
10 scenarios about the costs of leases, and we'll continue
11 to study that and, you know, what lease costs are most
12 realistic for California.

13 But even more importantly, we have a competitive
14 bidding process to make sure that whatever resources are
15 selected, are competitive. Resources compete against
16 each other, both off shore and within that category, and
17 more generally.

18 And for the portion of the load serving entities
19 that we regulate most directly, we have to approve long
20 term contracts for any renewable resources. So we
21 definitely have ways to make sure that costs remain
22 competitive. We've talked about going forward, whether
23 or not we need to require procurement from a central
24 procurement entity, given the nature of these resources,
25 how large they are, the long lead time involved, and

1 whether that could make the process more efficient but
2 also more cost effective. So that's something that we
3 continue to consider.

4 And of course we all hope that costs will
5 continue to decline as technology advances and as the
6 market matures. We're not necessarily the first leader
7 here, as we are in so many other technologies, and that
8 may be a good thing. Maybe it be a benefit from cost
9 declines on the East Coast or in Europe.

10 I look forward to the discussion today, thanks
11 for the chance to give some of those friendly comments.

12 COMMISSIONER DOUGLASS: Thank you so much,
13 Commissioner Rechtschaffen, and thanks for the great
14 work the PUC has been doing in this space. It's been
15 great to partner together on some of it.

16 Let me now ask President Reynolds and then
17 Commissioner Reynolds and then Commissioner Houck, to
18 speak in that order, if you could.

19 PRESIDENT REYNOLDS: Thank you Commissioner
20 Douglas. I will just keep it brief as Commissioner
21 Rechtschaffen covered the issues from the CPUC
22 perspective very well.

23 I just really wanted to welcome participants to
24 the workshop today and note that I'm really pleased to
25 be here and recognize the collaboration between the CPUC

1 and the CEC as well as the Natural Resources Agency and
2 just express my gratitude for everyone's hard work. I
3 think that partnership is just really critical for this
4 work going forward. And also wanted to note that we
5 have an extraordinary Federal-State partnership on
6 offshore wind, and I'm looking forward to continued -
7 continuing to support that and participate in that
8 partnership (indiscernible) for offshore wind
9 strategies.

10 And with that I will just say that I'm really
11 looking forward to the dialogue today. Thank you.

12 COMMISSIONER DOUGLAS: Thanks so much.

13 Commissioner Reynolds?

14 COMMISSIONER REYNOLDS: Thank you Commissioner
15 Douglas. And I (indiscernible) lots of my colleagues,
16 and thanks for the invitation to this forum. Really
17 appreciate the focus and the opportunity to learn more
18 about the subject. It's clear that this is a big fast
19 moving area, not unlike the wind turbines themselves.
20 The CEC and we ourselves have a lot of work ahead of
21 ourselves by June of this year, and June of the
22 following year. We look forward to you know seeing the
23 developments in this area, and really appreciate the
24 coordination of our staff on this subject. Would also
25 like to note that while some of the criteria here lie

1 outside of the CPUC's wheelhouse, we've learned a lot
2 over the last few years about tribal engagement, about
3 planning while incorporating environmental impacts, and
4 other topics. So please don't hesitate to reach out for
5 the support of our staff. Really appreciate the ongoing
6 collaboration between our agencies.

7 Now (indiscernible) just briefly my schedule
8 today prevents me staying for the whole workshop but I
9 really look forward to the discussion today and will be
10 briefed by my advisors and my staff on those portions
11 that I miss.

12 COMMISSIONER DOUGLAS: Yeah thanks so much.
13 Thanks for being here. We'll go to Kate Huckelbridge.

14 COMMISSIONER HOUCK: Oh -

15 COMMISSIONER DOUGLAS: Oh and Kate by the way, oh
16 oh I'm so sorry, Commissioner Houck.

17 COMMISSIONER HOUCK: Thank you Commissioner
18 Douglass. I just want to recognize your leadership on
19 this important issue and on all the work that the CEC
20 has done in coordination with other agencies, especially
21 the collaboration between our staffs at the PUC and the
22 CEC, the work that President Reynolds has done in her
23 former role in the Governor's office on this important
24 issue and the leadership that Commissioner Rechtschaffen
25 has taken at the PUC, and the important role the Coastal

1 Commission and the California Ocean Protection Council
2 have in moving this forward.

3 I know that there is a lot of stakeholder
4 interest and I know we've had discussions about that,
5 particularly the tribal interest in this topic, and I
6 welcome feedback from communities and tribes on how
7 these projects can impact them and help us meet our SB
8 100 goals, and look forward to the discussion today.

9 COMMISSIONER DOUGLAS: Yeah thank you
10 Commissioner Houck. We've had some great conversations
11 about tribal outreach around us and community engagement
12 and thank you for bringing up the California Coastal
13 Commission and the Ocean Protection Council. So we'll
14 go to Kate Hucklebridge bridge next.

15 Go ahead, Kate.

16 DEPUTY DIRECTOR HUCKELBRIDGE: Thanks
17 Commissioner Douglas. I just first want to echo my
18 colleagues' appreciation for your leadership on this
19 topic. It's been important and also recognizing the
20 partnership among all the agencies at the state and the
21 federal government. It's been pretty extraordinary from
22 our perspective.

23 I think the commission, the Coastal Commission,
24 comes to this work thinking about how to plan for
25 offshore wind in a responsible and thoughtful way that

1 protects our coastal resources. And I have appreciated
2 the kind of group effort to keep those goals in mind as
3 we're you know, thinking through, um, the state's energy
4 goals at the same time.

5 So, um, with that I appreciate being included
6 today and I really look forward to the conversation and
7 the public comment.

8 Thank you.

9 COMMISSIONER DOUGLAS: Thank you for being here.
10 And now, Mark Gold.

11 MR. GOLD: Hi, I'm Mark Gold. I'm executive
12 director of the Ocean Protection Council, as well as
13 Deputy Secretary for Coast and Ocean Policy for the
14 Natural Resources Agency, and a Coastal Commission
15 member. So covering a few bases here. And, look
16 everybody Karen has thanked you a lot and justifiably
17 so. On I can tell you, I have not had the privilege of
18 working on anything that is this important and this
19 controversial, that has included so much cooperation
20 between multiple agencies. It has really been a joy to
21 go through this even though we understand, that
22 California demands for us to move forward on SB 100 as
23 quickly as possible, but also doing it in a way that's
24 as environmentally responsible as possible.

25 So that means protection of marine life. And

1 that means protection of our fisheries. That means
2 protection of our cultural resources. And so the fact
3 that we're talking about this today in a manner where
4 we're talking about floating offshore wind, and doing
5 this in a way that really has not been done at the scope
6 and scale anywhere else in the entire world, and taking
7 into consideration some of the environmental impacts in
8 a manner that also has not, been taken into
9 consideration anywhere else in the world.

10 That's who California is. You know, is we do
11 things differently, and we try to set the bar and that's
12 what's happening here. And so I know people who are
13 here, have a number of different questions here. I'm
14 really looking forward to hear what people's comments
15 are. But you have our word that everything that we've
16 been doing from a scientific perspective, to provide
17 information to Kate Huckelbridge and her colleagues at
18 the Coastal Commission for the consistency determination
19 that's going to occur in the next few months on – on the
20 two lease sale areas. All of that science is going to
21 be absolutely instrumental in in us moving forward on AB
22 525 and doing the planning necessary to meet these – and
23 develop and meet these ambitious targets for the state
24 of California.

25 So, thank you.

1 COMMISSIONER DOUGLAS: Thank you, Mark, and
2 thanks for bringing us really around to the point, you
3 know we've all been working so hard collaboratively on
4 this because offshore wind is this great opportunity to
5 help us meet our – help address our climate goals, our
6 renewable energy needs, and to do it in a way that's
7 consistent with the values that we've held up in the
8 state around environmental protections and
9 sustainability, around understanding how the projects
10 can support workforce, and community, and understanding
11 the kind of community engagement that's needed to really
12 get buy-in and really work through issues and impacts,
13 particularly to some of our more affected stakeholders
14 like the fishing industry, among others.

15 And so I think we've all collectively really
16 brought that ethic together and I've – I've, it's been a
17 pleasure working with everyone in that capacity. And so
18 thank you. And with that I think, Jim, I'll turn this
19 back to you to start getting into the agenda.

20 MR. BARTRIDGE: Very good. Thank you – thank
21 you, Commissioners, for all your opening remarks. With
22 that, let's welcome our first speaker, Eli Harland from
23 the Energy Commission. He'll provide some brief updates
24 on California offshore wind activities. Eli?

25 MR. HARLAND: Good afternoon. My name is Eli

1 Harland. I work at the California Energy Commission.
2 Currently an advisor to Commissioner Douglas, and
3 support her and her broad portfolio, and have been very
4 focused on supporting her role with offshore wind,
5 including outreach and planning processes, and in our
6 coordinating role, with state agency partners.

7 So next slide please Erica.

8 So today I wanted to kick off this workshop by
9 sharing an update on the various interrelated tracks
10 that are occurring at state agencies. You'll hear more
11 about some of these during the presentation from the
12 Bureau of Ocean Energy Management, as well as the Energy
13 Commission, later in the agenda today.

14 So I won't go into great detail on these. But I
15 wanted to make sure and just emphasize this level of
16 coordination we have going and how these work streams
17 relate to one another. This isn't really meant to be a
18 comprehensive overview of these, but these are the key
19 work streams that are driving the schedule of activities
20 for this year, and – and the years after that.

21 We're trying to look at all of this really
22 strategically so that we can leverage opportunities to
23 maximize participation and also flows of information
24 between the work to me, the Assembly Bill 525
25 requirements, as well as the BOEM process. I do want to

1 emphasize at the top that AB 525, or Assembly Bill 525,
2 is clear in Public Resources Code section 2599182 that
3 the development of the strategic plan shall incorporate
4 but not delay progress to advance responsible
5 development of offshore wind and other relevant policy
6 venues.

7 So that's one thing we're taking to heart, is
8 seeing the variety of things that we have going in
9 parallel and making sure that we stay on schedule and –
10 and maximize like I said the participation and flow of
11 information. So I'm not going to go into great detail
12 about AB 525, because Rhetta deMesa later in this
13 workshop will be providing a really detailed overview of
14 the legislation but especially as it relates to some of
15 our most immediate deliverables that are required by
16 June 1 of this year.

17 Also, unrelated to the strategic plan
18 requirements, the state continues to work through the
19 BOEM process, the planning and leasing process. You'll
20 also hear more about that process from Necy Sumait from
21 BOEM following this presentation, but I wanted the team
22 the interagency state team that's working on this is
23 reviewed and provided comment into BOEM on their
24 National Environmental Policy Act analyses for both the
25 Morro Bay and the Humboldt wind energy areas. And we'll

1 continue to do that and review and engage in those
2 environmental reviews.

3 We're also looking closely and engaging in
4 BOEM's approach and format for the lease option for both
5 of those wind energy areas. This will really mean
6 taking our collective learnings from the wide range of
7 outreach we have done over the years, and also in
8 coordination with our key agencies to really lean into
9 that BOEM process to reflect California priorities, with
10 eyes wide open about what BOEM can and can't do in their
11 leasing, under its interpretation of the Outer
12 Continental Shelf Lands Act and other federal
13 authorities.

14 And we're very interested today in reactions
15 from our workshop participants and comments into the CEC
16 docket following the BOEM presentation.

17 Related to the BOEM process is the Coastal
18 Commission's review of BOEM's consistency determination
19 for leasing areas offshore California. Coastal
20 Commission staff and working with key state agencies, I
21 think Kate just highlighted this, is in the process of
22 — of that review now and preparing a staff report for
23 the Humboldt winery area — Wind Energy Area — with a
24 goal of having a report out for public comment ahead of
25 an April Coastal Commission hearing.

1 This is a fast timeline, and it is occurring
2 while we are also balancing the workload to complete the
3 analyses for the most immediate requirements of AB 525.
4 This consistency review is one of the first regulatory
5 opportunities for California under the Coastal Zone
6 Management Act to set a direction for leasing in
7 California that reflects the state's coastal and ocean
8 laws and policies that I think is, as Mark Gold
9 highlighted, are our values.

10 So the link that's on the web, that's on the
11 slide here, is to the Coastal Commission's website where
12 you can find additional information on the Coastal
13 Commission's review for the Humboldt winery — Wind
14 Energy Area — consistency determination.

15 Also, Commissioner Rechtschaffen highlighted
16 that the Public Utilities Commission is really been
17 ramping (indiscernible), and last year, requested the
18 California Independent System Operator to study
19 transmission for large amounts of offshore wind for
20 informational purposes. And the — the California ISO,
21 currently has a draft transmission plan and a 20 year
22 transmission outlook that is in public preview

23 And through this energy Commission's and the
24 Public Utility Commission's efforts to stand the Senate
25 Bill 100 resource build process, the CEC has also been

1 providing input into the Independent System Operator's
2 transmission planning process.

3 You'll hear more about a lot of these studies
4 later in Rhetta's presentation, including information on
5 the recently approved decision from the CPUC that
6 includes a gigawatt scale of offshore wind in their
7 planning portfolio.

8 Another related track that we're working on is
9 implementing allocations from the 2021-2022 state
10 budget. Some of these allocations have already been put
11 into play to bring staff on that are contributing to the
12 state's activities related to the BOEM planning and
13 leasing process. In addition to bringing on staff, the
14 Ocean Protection Council has made investments into
15 bolsting – bolstering our environmental information as
16 well as our tribal cultural information and helping the
17 Coastal Commission synthesize this information to
18 support the review of BOEM's consistency determination.
19 And we're also looking at the allocation received for
20 supporting outreach, and where to strategically direct
21 those funds to bolster stakeholder and tribal
22 engagement.

23 The budget last year also allocated funding for
24 technical analyses. And one of those will be an
25 assessment that the State Lands Commission will be doing

1 that will look regionally at opportunities, and
2 feasibility of alternatives to using existing port and
3 waterfront facilities. You'll hear more about the
4 formulated spending and some of the information that has
5 been put together that Rhetta will share in her
6 presentation later.

7 I also wanted to highlight, I won't spend a lot
8 of time discussing though, is the Governor's proposed
9 budget for 22-23. As part of the clean energy package,
10 45 million is proposed to support planning and
11 engineering design at existing port and waterfront
12 facilities, as well as a request for resources in that
13 budget to support an interagency approach to meeting the
14 requirements of Assembly Bill 525.

15 The budget proposal is being considered by the
16 legislature and the agencies will be engaged in
17 presenting and responding to that proposal. We won't
18 know until after the Budget Act is passed where we stand
19 with these proposals. So those are some of the key
20 activities occurring at the state agencies.

21 The next two presentations will provide a lot
22 more detail about the immediate BOEM process and
23 requirements of AB 525. As was mentioned it's exciting
24 times for us offshore wind, but it's also an important
25 time to make sure we're doing this at a pace that meets

1 the climate imper – imperative, but also doesn't
2 sacrifice our coastal ocean values and brings
3 stakeholder and tribal voices into this process.

4 In a way the requirements of AB 525 and the
5 schedule that is set by those requirements can really
6 allow us to ledger – leverage the strategic planning
7 work into the BOEM process, and the BOEM process into
8 the AB 525 process. Keeping in mind that working on AB
9 525 is not meant to slow things down in any other venues
10 but is — is designed to have information flows between
11 them.

12 So I want to say thank you to Nocy, from BOEM,
13 for being here to present today, and allowing this
14 opportunity for public input into that BOEM process. I
15 also want to acknowledge Rhetta deMesa and Scott Flint
16 and the rest of the CEC team as well as our interagency
17 partners for their focus on making this workshop a
18 success.

19 Our docket is open, there should be a links in
20 the workshop materials. And the docket's always been
21 open, and I expect that it'll become much richer with
22 information following this workshop and I look forward
23 to hearing comments today and reviewing written
24 comments.

25 Last, I just want to highlight that we have over

1 250 participants logged in and I can see that we have
2 folks from a lot of different perspectives and it really
3 shows the versed interest in this topic.

4 So thank you to everybody for participating
5 today. And with that, I'll turn it back over to Jim
6 Bartridge.

7 MR. BARTRIDGE: Thanks Eli. Okay, our next
8 speaker is Neco Sumait, from BOEM, who will provide an
9 update on the federal leasing process for wind energy
10 areas in California.

11 Neco?

12 MS. SUMAIT: Thank you, Jim, and good afternoon,
13 everyone. Thank you for providing BOEM this opportunity
14 to be apart of this conversation and to provide an,
15 (indiscernible), some status and updates on what we are
16 doing here in in California with regards to offshore
17 wind.

18 I'm - my name is Neco Sumait and I'm the
19 regional supervisor of the Office of Strategic Resources
20 for the Pacific region. And one of the the
21 responsibilities that I have is to lead the leasing
22 process for renewable energy off of the Pacific coast,
23 which includes California, Oregon, Washington, and
24 Hawaii.

25 You heard the extraordinary collaboration among

1 state agencies and I want to say from BOEM's
2 perspective, it has really been a wonderful opportunity
3 to work with state agencies under the leadership of
4 Commissioner Douglas and her advisors and the Energy
5 Commission staff and in the various agencies that we
6 have worked with, the OPC, Coastal Commission,
7 California Public Utilities Commission, State Lands,
8 California Department of Fish and Game.

9 I think everyone has touched this process in one
10 way or the other, and so we're just really grateful to
11 have that very open conversation and collaboration with
12 the state, and we hope and look forward to continuing
13 that as as we move forward with our leasing process.

14 So just maybe a little bit about, you know BOEM
15 is organized according to regions. So as I said, we are
16 the Pacific region. We don't yet have any leases like
17 our Atlantic colleagues. Where, you know, they've had
18 several leases there, including the most recent one in
19 New York. Here in the Pacific in addition to the
20 leasing section, we also have the environmental section,
21 and so we have folks that will look through the
22 environmental assessment, there's a section for that,
23 and we also have a very robust studies program. And so
24 that has enabled us to – to be able to fund studies that
25 inform our decision-making process.

1 So if we can go to the next slide, please.

2 UNIDENTIFIED SPEAKER: (indiscernible).

3 MS. SUMAIT: Next slide.

4 So today I was asked to provide a brief overview
5 of the BOEM leasing process, to talk about our status
6 here in California, and what next steps we can look
7 forward to towards the lease sale. Talk a little bit
8 about where in that process there are opportunities for
9 input and engagement. Talk a little bit about lease
10 option formats, and previous approaches that, we have
11 used in previous leases off of the Atlantic.

12 Next slide please.

13 So some of you are familiar with this with this
14 slide, and I won't go through each one of them. Just to
15 say though, that you know, the BOEM process is a long
16 one and it's in four distinct phases in California and
17 most, and, here in the Pacific, including Oregon. We're
18 in this first phase of planning and analysis, and which
19 will ultimately, go into the next step step hopefully
20 soon in California, which is the leasing process. And
21 once there's a lessee the lessee then has a little bit
22 of a control in terms of how quickly the development
23 goes through because then there would be a term during
24 the — the after the leasing process in which they will
25 do additional site characterization and site assessment

1 to inform the development or the construction and
2 operations plan of the actual project that they plan to
3 — to build on the leasehold.

4 This process includes multiple opportunities for
5 public engagement, we do our intergovernmental
6 coordination through the Renewable Energy Task Force
7 that's composed of local, state, and federal agencies,
8 and elected officials. And we also have those taskforce
9 meetings are always open to the public. We have
10 engagement with our tribal partners, other state
11 agencies and like webinars, we have public webinars, and
12 there are also going to be Federal Register notices for
13 the more formal part of the process.

14 In this four phase process, there are two points
15 in which we do an — address environmental analysis under
16 NEPA, the National Environmental Policy Act. The first
17 is prior to the issuance. And so the scope of that NEPA
18 review is really the types of activities that a lessee
19 can do once they have a lease, which is simply to do
20 some additional site characterization and site
21 assessment work. And since the lease does not provide
22 the authority to — to construct a project. And only
23 when we have the construction and operations plan, would
24 we have the information to conduct a full environmental
25 assessment, typically an EIS.

1 Next slide please.

2 So after multiple years of planning, I think
3 beginning in 2016, we have what we call wind energy
4 areas on the central and north coast. So we're
5 currently – activities are focused in the Humboldt area.
6 This is the Humboldt Wind Energy Area. And the
7 nomenclature there is a Wind Energy Area is that area
8 that is determined after there is a call area on which
9 information and nominations were sought, and the wind
10 energy area is the area on which we are conducting the
11 environmental assessment for potential lease issuance.

12 So the Humboldt Wind Energy Area environmental
13 assessment draft is out. We did close the public
14 comment period there on February 10 of 2022. And so the
15 next step on the Humboldt Wind Energy Area is to
16 complete the environmental assessment.

17 Next slide, please.

18 The Central Coast is lagging a little bit. We
19 did determine a Wind Energy Area off Morro Bay. And we
20 have conducted a scoping period to prepare that
21 environmental assessment, and so the next step here for
22 — for Morro Bay is to release the Draft Environmental
23 Assessment for public review and comment.

24 Next slide.

25 So after environmental assessments are in place,

1 you know we – we begin to move into the leasing process
2 of that four phase process. So the leasing process
3 begins with the publication of what we call, it's a
4 Federal Register Notice Proposed Sale Notice. And our
5 goal is that, whereas Humboldt and Morro Bay are
6 proceeding on different tracks right now, is that we
7 would combine them into one proposed sale notice to hold
8 one single auction for — for California.

9 That Proposed Sale Notice will be out for a 60
10 day comment review. And it will also be the last
11 opportunity for potential bidders to submit
12 qualifications to bid. And after that comment period is
13 out, we review and publish a final sale notice and then
14 eventually a lease auction in the fall of 2022.

15 Next slide please.

16 So just a little bit more about those steps,
17 post – beginning with the proposed sale notice. So in
18 the Proposed Sale Notice this is the first time that we
19 will identify areas proposed for leasing. So we'll
20 actually identify areas on the – off the Morro Bay as
21 well as Humboldt that we propose for leasing. We will
22 also describe the proposed auction methodology. As I
23 said earlier, this will be the last time where potential
24 bidders can submit qualifications. A bidder has to be
25 qualified legally, financially, and technically in order

1 to - to qualify to bid in any of our auctions.

2 And as I said earlier, we plan to put this out
3 for a 60 day comment period for stakeholder input. And
4 sometime during the comment period, we'll hold an
5 auction seminar and just get everyone familiar about
6 how, you know the auction process will -will be going.

7 Next slide please.

8 So when when the proposed notice is out we are
9 looking for you know inputs from stakeholders, and
10 basically it's you know - and anything that's on the on
11 the document - but you know anything that's related to
12 the lease sale, we're going to put in the number of
13 lease areas, the sizes, the orientation, the delineation
14 of the proposed lease areas. So any comments on that
15 would be helpful. If there are comments on project
16 layout considerations that we should account for, or
17 that people would like to suggest, that would be good.

18 The proposal notice will also come with a
19 proposed lease document. The lease document won't be in
20 the Federal Register, but it will be published on our
21 website at the same time that the proposed sale notice
22 is published. So any comments on proposed lease
23 stipulations, that would also be helpful to us. And of
24 course, it's in the proposal notice that we're going to
25 describe the type of auction format that we are

1 proposing to have in California.

2 Next slide please.

3 So please provisions and conditions in – in a
4 PSN. That may be in a PSN. So we have really tried
5 to, most of our lease, our lease or lease are really
6 like more or less forms, adapted for, you know, any kind
7 of requirement for region specificity. So, but I, for
8 the most part, folks can rely on some of the lease
9 provisions that are out there for previous leases. And
10 so, some of the things that we have asked lessees to do,
11 are to prepare various communications plan, like a
12 fisheries liaison and fisheries communication plan. And
13 we've also become sort of more granular in describing
14 what these plans should look like, you know, just based
15 on our experience and what we're hearing from folks.
16 So, it's – it's starting to define, as I think you've
17 seen in the New York lease, that, you know, there's more
18 specificity on what we intend those plans to be, and to
19 give the lessees further direction on the expectations.

20 So, we've – in the New York Police, there's also
21 a Native American tribes communication plan. And then
22 like an agency plan, communication plan, this agency
23 communication plan is really like, you know, there are
24 going to be all sorts of agencies at different levels
25 that will be involved and so we would look to the lessee

1 to provide, you know, how those are are aligning and
2 give a status of where things are just so we can see how
3 the the development is moving forward. Of course, there
4 will be protected species considerations and that will
5 be among the lease provisions and potential
6 stipulations.

7 Any comments on like the site characterization
8 requirements? There's requirements for like pre survey
9 meeting, survey plans submittals, progress report –
10 reporting and how when they do this, how the various
11 stakeholders are involved. So you know, there's some
12 requirements on the on that and previous ones.

13 We've also more recently put in like workforce
14 considerations for construction in, and leases that have
15 either been proposed, like in the Carolina Long Bay, or
16 the most recent one in New York. And of course, as I
17 said before financial assurance. I mean, prior to any
18 steel in the water, the lessee would have to provide
19 financial assurance for decommissioning, but there are
20 also financial assurance requirements for performance on
21 the lease. So, there are different levels of financial
22 assurance and all of that will be, delineated in the in
23 the PSN and in the lease as attachment to the PSN. And
24 of course the lease terms.

25 It – it's usually like a one year preliminary

1 term to basically submit that that SAP, or site
2 assessment plan, and then they would have like five
3 years to put together a construction operations plan.
4 And then I believe for cons- for operations we're up to
5 like 33 years.

6 Next slide please.

7 So, after the PSN is out and we receive
8 comments, we will follow that with a final sale notice.
9 The final sale notice has to be out at least 30 days
10 prior to an auction. So you know that's the minimum
11 requirement that we need to have. And in the PSN - the
12 FSM, this is where we're going to have the specific
13 dates for the next steps that that will happen prior to
14 the auction.

15 We're going to - we're going to specify the
16 final areas for the lease. Obviously, the final auction
17 format for the lease sale and then any changes from the
18 PSN to the FSN. We will also provide a list of the
19 eligible bidders. You know, obviously they don't all
20 have to participate but those are the ones that that are
21 qualifying. Whoever would be listed in the FSN.

22 Next slide please.

23 So when one of the the few things that you still
24 need to do that will be delineated in the final sale
25 notice would be you know, fill out additional forms like

1 there's a bidder financial form in which the bidder
2 would have to list all of their affiliations cause
3 they're not allowed, an affiliate cannot bid, you know,
4 they obviously cannot bid against each other. So we -
5 we need to understand that and know that. This BFF or
6 Bidder Financial Form will also designate our, the
7 person or the contact for the bidders. There's going to
8 be a bid deposit that's going to have to be paid for all
9 the bidders to participate. And those are - the
10 qualified bidders will be asked to join a mock auction.
11 And then finally of course, we have the live auction.

12 Next slide please.

13 After the auction it's not over yet. We do
14 declare a provisional winner. I think you've seen that
15 in the last one. And then it will have to go through
16 the auction process we have to go through the Department
17 of Justice review, that's about 30 days. Just to make
18 sure there's no an- antitrust law violation. And then we
19 send a lease to the winner, and they have like 10 days
20 to pay the balance of the bonus bid, which is really the
21 final bid minus the deposit. They have to agree to the
22 terms of the lease. They have to file their financial
23 assurance form. And then they sign the lease, and then
24 everything, if everything is well and good, then BOEM
25 signs the lease.

1 Next slide.

2 Just a slider here on the New York, the type of
3 auction format. So New York utilized an ascending
4 bidding auction and cash was the only bid variable. You
5 – you know, you saw that we started with a minimum bid
6 for each of the lease area, and then incrementally, those
7 bid, the prices goes up. And then, um, when only one
8 bidder remains and that's a declared winner. And I
9 believe the New York Bight auction went for three days,
10 and 64 rounds during those that three day period. So it
11 was a very active auction process that we just held.

12 Next slide.

13 So – so that was a a single factor bid process.
14 So the Carolina Long Bay, and this is only from the
15 proposed sale notice that was published. We have not
16 yet submit – we have not yet published a final sale
17 notice. So there could be some changes going forward.
18 But just based on the proposed sale notice, wanted to
19 just say that the intent there is to have a multi factor
20 bidding auction. In this case, it would include not
21 only the monetary factor, but a non monetary part of the
22 the bid. And basically the bidders bid will represent
23 the total of the bidding credit and the – the cash
24 amount.

25 The proposal there is to have bidding credits to

1 allow bidders to receive a credit of up to 20% from
2 their bid in exchange for FIS – financial commitments to
3 two things, like a workforce training program and
4 there's some examples on what might qualify those in in
5 PSN, or development of a domestic supply chain. So my,
6 all right, this is to allow all the bidders to have
7 equal opportunity to commit to a finite – financial
8 amount based on these qualified programs. And so
9 everyone will have a shot at having access to this
10 bidding credit.

11 And, you know, we – we when we do have the
12 auction, we, you know there's going to be a minimum bid.
13 And like the single factor, the price just keeps going
14 up until there's only one bidder left.

15 This might be my last slide, I think. Oh, maybe
16 not.

17 So, after we do have a lessee this is just the
18 rest of the process as I talked about in that four step.
19 Lessee can only do plans, submit plans, do some site
20 characterization and get the information for them to
21 submit a construction operations plan, and then we
22 review the construction operations plan, do the
23 environmental analysis under NEPA. Typically, you know
24 you expect it to be an EIS.

25 We review the COP, they als – and then after

1 that process is done then there's still just a couple of
2 of forms, or a couple other reports that they need to
3 provide, like the design and installation plan, before
4 they can actually start to have steel into water. So
5 it's a long process. We're slowly moving through the
6 four phase process here in California. And the goal and
7 the target is to look forward to a lease sale by this
8 fall. All of this year. So I do think this is my last
9 slide.

10 Great. My contact information is there. In
11 addition to myself, Jean Thurston-Keller is our
12 California State Coordinator, so she is also a good
13 contact for California questions. So thanks for the
14 opportunity to – to be a part of this conversation and,
15 I guess happy to stay if there are going to be any
16 questions. Thanks.

17 MR. BARTRIDGE: Thank you, Necy, for that
18 comprehensive overview. Let me ask, do folks, anyone on
19 the dais have questions or comments for Necy, and if so
20 please turn on your video.

21 (PAUSE)

22 Seeing none. Okay, one more call from the dais?
23 Anyone? Okay.

24 Necy, thank you again. With that, I think
25 before we go to the next presentation, let's take a

1 quick five minute break. Or eight minute break. We'll
2 come back at two o'clock, and start on the next
3 presentation from staff.

4 (PAUSE)

5 Okay, good afternoon, everyone. Welcome back.
6 It's two o'clock. We're ready to get started on the
7 next presentation today. Just make sure that folks are
8 with us. I'll, let me now invite Rhetta deMesa and
9 Scott Flint. Please turn on your cameras, and Rhet —
10 Rheta will be presenting on the requirements of Assembly
11 Bill 525, and some of our thinking around establishing
12 California's offshore wind planning goals. So Rhetta,
13 take it away.

14 MS. deMESA: Thanks, Jim. Good afternoon,
15 everyone. I'm Rhetta deMesa with the Energy Commission
16 Siting Transmission and Environmental Protection
17 Division, where I focus on offshore wind. As we just
18 heard from Neco, BOEM, in collaboration with all levels
19 of government, stakeholders, and tribes, has been
20 planning for leasing areas for wind energy in federal
21 waters offshore California. And as summarized in the
22 opening presentation by Eli, there are many interrelated
23 tracks occurring in state agencies that relate to wind
24 energy offshore California, including efforts and
25 actions relating to the BOEM's planning and leasing

1 activities.

2 One of the major activities the CEC is
3 undertaking as required by AB 525 is evaluating and
4 quantifying the maximum feasible capacity of offshore
5 wind to achieve reliability, ratepayer, employment, and
6 decarbonization benefits, and developing a strategic
7 plan for offshore wind energy which has many statutory
8 requirements, including establishing megawatt planning
9 goals for offshore wind energy.

10 Slide please.

11 California Assembly 5 — Bill 525 became
12 effective January first of this year. AB 525 sets the
13 analytical framework for offshore wind energy
14 development off the California coast and federal waters.
15 In enacting AB 525, the legislature found and declared
16 among other things, that if developed and deployed at
17 scale, the deployment of offshore wind energy can
18 provide economic and environmental benefits to the state
19 and to the nation.

20 Offshore wind energy can advance California's
21 progress toward its statutory renewable energy and
22 climate mandates. Diversity in energy resources and
23 technologies lowers overall costs and offshore wind can
24 add resources to technology diversity to the state's
25 energy portfolio. Offshore wind energy development

1 presents an opportunity to injrac — attract investment
2 capital and to realize ac — community, economic and
3 workforce development benefits in California, including
4 the development and preservation of a skilled and
5 trained construction workforce to carry out projects,
6 long term job creation and development of an offshore
7 wind energy supply chain.

8 Offshore wind energy can contribute to a
9 diverse, secure, reliable, and affordable renewable
10 energy resource portfolio to serve the electricity needs
11 of California ratepayers and improve air quality,
12 particularly in disadvantaged communities. Offshore
13 wind should be developed in a manner that protects
14 coastal and marine ecosystems, and investment in
15 offshore wind energy development can offer career
16 pathways and workforce training opportunities in clean
17 energy development.

18 Next slide please.

19 In consideration of these legislative findings
20 and other goals, AB 525 passed the Energy Commission in
21 coordination with an array of specified local, state,
22 and federal partners, and with input from stakeholders
23 to develop a strategic plan for offshore wind energy
24 deployments installed off the California coast in
25 federal waters, and to submit it to the Natural

1 Resources Agency and legislature by June 30, 2023.

2 The strategic plan is required to improve at a
3 minimum the following five chapters: identification of
4 sea space, economic and workforce development and
5 identification of port space and infrastructure,
6 transmission planning, permitting, potential impacts on
7 coastal resources, fisheries, Native American and
8 indigenous peoples, and national defense, and strategies
9 for addressing those impacts.

10 In developing the strategic plan, the five req
11 — and the five required chapters, AB 525 includes
12 interim work products that the CEC must also complete.
13 First, we must complete and submit to the Natural
14 Resources Agency the relevant, and the relevant fiscal —
15 relevant fiscal and policy committees of the legislature
16 a preliminary assessment of the economic benefits of
17 offshore wind as they relate to seaport investments, and
18 workforce development needs and standards by December
19 31, 2022.

20 Additionally, we are to complete and submit a
21 permitting roadmap to the Natural Resources Agency and
22 the relevant fiscal and policy committees of the
23 legislature by December of this year as well. For
24 purposes of AB 525, the term stakeholders includes but
25 is not limited to: fisheries groups, labor unions,

1 industry, environmental justice organizations,
2 environmental organization, and other ocean users.

3 Next slide please.

4 AB 525 further specifies that the strategic plan
5 shall emphasize and prioritize near term actions,
6 particularly related to the port retrofits and
7 investments and, and the workforce to accommodate the
8 probable immediate need for jobs and economic
9 development. In considering port retrofits, a strategic
10 plan shall strive for compatibility with other harbor
11 tenants and ocean uses to ensure the local benefits
12 related to offshore wind energy construction complement
13 other local industries.

14 The strategic plan shall emphasize and
15 prioritize actions that will improve port
16 infrastructures to support land based work for the local
17 workforce, and the development of the strategic plan
18 regarding, um, workforce development shall include
19 consultation with representatives of key labor
20 organizations, and apprenticeship programs that would be
21 involved in dispatching and training the construction
22 workforce.

23 Next slide please.

24 As a starting point for developing the strategic
25 plan, AB 525 directs the CEC by June 1 of this year to

1 evaluate and quantify the maximum feasible capacity of
2 offshore wind to achieve reliability, ratepayer,
3 employment, and decarbonization benefits, and to
4 establish megawatt offshore wind and pl— offshore wind
5 planning goals for 2030 and 2045.

6 It's also important to clarify that AB 525
7 specifies that the statutes of AB 525 are not intended
8 to create a technology set aside, or a mandatory minimum
9 for any type of eligible renewable energy resource. As
10 described in AB 525, the megawatt planning goals are for
11 the purposes of creating the strategic plan as required
12 by the legislation. Today's workshop is going to be
13 focusing on this first deliverable that's due in June of
14 this year.

15 Next slide, please.

16 The CEC is currently working to meet this
17 requirement by conducting a literature review of
18 existing publications and research. Some of the
19 reports, studies, and sources of information we have
20 looked at include but aren't limited to studies by the
21 National Renewable Energy Laboratory, and the US
22 Department of Energy, Resources from the California
23 Public Utilities Commission, including Integrated Res —
24 Integrated Resource Plan, and the 2021 Preferred System
25 Plan, materials from the August 27, 2020 webinar on

1 offshore wind resource profile and technology costs, as
2 well as the December 17, 2021 planning workshop on the
3 roadmap for offshore wind and integrated resource
4 planning.

5 Additionally, we've looked at CAISO's study on
6 the CPU's — the CPUC's offshore wind policy driven
7 sensitivity portfolio for the 2021-2022 transmission
8 planning process, and the 2021 SD 100 Joint Agency
9 report.

10 These studies tell us the following: California
11 has some of the best offshore wind resources in the
12 world, and that there is a large technical potential off
13 our coasts. Cost for deploying offshore wind has become
14 has come down rapidly and will continue to decrease as
15 the technology becomes more mainstream throughout the
16 world. Offshore wind can contribute to ensuring load
17 flexibility and help save on overall system costs as we
18 move to meet — meet our SB 100 energy goals. A moderate
19 amount of offshore wind generation can be accommodated
20 on the transmission grid with reasonable upgrades.
21 Additional amounts are also possible but would require
22 significant investments in trand — transmission
23 infrastructure.

24 With existing technologies and assumptions, the
25 IRP February 2022 preferred system plan has 1.7

1 gigawatts online by 2032. And SB 100 driven growth, in
2 the capacity to generate and start clean electricity,
3 can create thousands of new high quality clean energy
4 jobs, especially in the installation and maintenance of
5 solar and wind systems.

6 This is just a starting point, and we know that
7 more study and analysis is warranted. We plan to
8 develop a list of the various studies and resources
9 we've been reviewing, which we'll make available
10 following the workshop. We invite and welcome comments
11 that recommend additional studies for our consideration.
12 As you continue to read our research and analysis and
13 invite comments and recommendations for how CEC could
14 consider using that information to evaluate and quantify
15 the maximum feasible capacity of offshore wind to
16 achieve reliability, ratepayer, employment and
17 decarbonization benefits.

18 Next slide please.

19 The legislation requires the Energy Commission
20 to consider twelve factors when establishing the
21 megawatt offshore wind planning goals. These include
22 findings from the joint agency SB 100 report, the need
23 to initiate long term transmission and infrastructure
24 planning, the need for renewable energy to accommodate
25 California's shifting payload, the generation profile of

1 offshore wind, potential impacts on coastal resources,
2 fisheries, Native American and indigenous people, and
3 national defense and strategies to address them, the
4 potential to attract supply and plane — supply chain
5 manufacturing, the need for economies of scales for
6 reduced costs, and real findings of California has 200
7 gigawatts of offshore wind technical potential, the need
8 to develop a skilled and trained offshore wind
9 workforce, the availability of federal tax incentives,
10 the opportunity for California to participate in federal
11 goals, and executive actions from the governor.

12 In our review, certain factors, those shown
13 above the horizontal line there, are likely to have
14 greater influence on shaping or affecting the goals than
15 others. But all of the factors in totality are
16 important in establishing megawatt planning goals and
17 contributing to the strategic plan. Today we'll walk
18 through each of the factors and share our thinking
19 giving more time and weight to the factors we think are
20 most pertinent to shaping the goal setting. Of course,
21 we welcome comments that might offer different
22 perspectives on which factors are likely more impactful
23 to shaping the goals.

24 So now we'll go ahead and walk through the
25 factors.

1 Next slide please.

2 The first factor provides critical context for
3 opportunity offshore wind energy represents for
4 California to generate carbon free energy and diversify
5 the state's renewable energy portfolio, especially in
6 light of the scale of the climate crisis. California
7 has very aggressive climate and renewable energy goals,
8 and we're working hard and fast to transition our energy
9 sector to clean electricity. We're working to create —
10 decrease greenhouse gas emissions to 40% below 1990
11 levels by 2030, and 80% below that by 2050. We're also
12 working toward the economy wide carbon neutrality goal
13 of 2040 by 2045. And we have very aggressive zero
14 emission transportation goals of 100% zero emission
15 vehicles by 2035, and for medium and heavy duty vehicles
16 by 2045.

17 The 100% Clean Energy Act of 2018, commonly
18 referred to as SB 100, is a pillar of the state's Clean
19 Energy Policy. Updating the state's renewable portfolio
20 standard to ensure that at least 60% of the state's
21 electricity comes from eligible renewable energy
22 resources by 2030, and that by 2045 all retail
23 electricity sold in California, and state agency
24 electricity needs, will be powered with renewable and
25 zero carbon resources.

1 SB 100 requires the Energy Commission,
2 California Air Resources Board and Public Utilities
3 Commission to prepare a joint report every four years
4 that meets statutory requirements. The first report was
5 issued in 2021 and AB 525 tasked the CEC to consider the
6 findings of the report in establishing the goals.

7 The SB 100 report found that we need significant
8 build out of clean energy generation over the next 25
9 years. Portfolio modeling completed for the report
10 covered a range of scenarios and technologies, and in
11 the core scenario, the modeling used a built in
12 assumption that 10 gigawatts of offshore wind was
13 included in the 2045 portfolio.

14 The core high flexibility scenario showed an
15 annual cost savings of 1 billion in 2045 with a
16 portfolio that includes 10 gigawatts of offshore wind.
17 This is due to avoided battery storage and decrease in
18 economic gas retention compared to SB 100 core scenario
19 with the same annual electric energy demand. The SB 100
20 Joint Agency Report acknowledges that there are
21 additional investments and actions that would have to
22 occur to realize 10 gigawatts of offshore wind by 2045,
23 and finds that while there is a significant resource
24 potential off the California coast, there are also
25 considerable barriers.

1 Among the foremost challenges are significant
2 anticipated transmission requirements, and completing —
3 and competing coastal uses including shipping, fishing,
4 recreation, marine conservation, and Department of
5 Defense activities. Report recommendations include the
6 need to continue to evaluate the potential effects of
7 cost saving emerging resources such as offshore wind,
8 long duration energy storage, green hydrogen
9 technologies, and demand flexibility, and to continue to
10 prioritize energy efficiency and load flexibility to
11 minimize total implementation costs.

12 Next slide please.

13 Transmission. Both the availability of existing
14 transmission and the need to develop more transmission
15 in specific areas affect the offshore wind planning
16 goals in Cal — the off shore wind planning goals
17 California sets, and can expect to achieve over time.
18 The North Coast wind potential is large, and wind speed
19 and consisties — contis — consistency is favorable for
20 commercial development.

21 The North Coast electricity — electric system
22 is relatively isolated from the California gig — grid,
23 and primarily serves local community need. Additional
24 transmission will be needed to deliver offshore wind

1 energy from this region to the grid. The sequence and
2 timing of new transmission is important for minimizing
3 mid term bottlenecks or reliability issues and providing
4 least regrets decisions for the mid and long term.

5 Existing transmission on the South Central Coast
6 is robust and is near large load centers. Retiring
7 generation provides an opportunity to repurpose existing
8 infrastructure, but there's still a need to do long term
9 planning for both the at sea infrastructure, and ability
10 to utilize existing onshore infrastructure. Ongoing
11 efforts to inform transmission planning and recently
12 completed studies, along with studies currently being
13 initiated, will inform the planning goals and the
14 overall strategic plan.

15 The three recent transmission efforts we've been
16 looking at while exploring the planning goals include
17 the CPUC's 2022-2023 IRP and transition planning
18 process, the CAISO's first ever draft 20 year
19 transmission outlook, which is a good step toward long
20 transmission long term transmission planning, especially
21 since it incorporates SB 100 resource assumptions, as
22 well as CAISO's sensitivity study results from the long
23 term transmission plan which will be incorporated into
24 future IRP modeling. And third, the transmission
25 upgrading report and policy analysis completed by the

1 Schatz Energy Research Center at Humboldt State.

2 These studies collectively evaluate transmission
3 implications of up to 21 gigawatts of offshore wind.
4 The CEC is initiating additional transmission studies in
5 partnership with the state of Oregon and the Department
6 of Defense to explore additional North Coast
7 transmission challenges and opportunities. The
8 information from these studies will influence the
9 development of offshore wind and will inform and help
10 guide the overall offshore wind strategic plan.

11 Next slide please.

12 California's shifting peak load. On average
13 California daily peak load is shifting to later in the
14 afternoon, which would create the need for renewable
15 energy sources that continue to generate electricity
16 later into the evening hours. As shown on the slide,
17 the profile of offshore wind in the North Coast on an
18 average day complements solar resources. The profile
19 for the Central Coast is similar to the North Coast, but
20 there are differences across the time of day, season,
21 and total wind resource potential.

22 Offshore wind is an attractive technology from a
23 system planning perspective due to the associated
24 generation profile that complements solar with higher
25 output in the evenings when electricity demand is high

1 and solar production is low. Offshore wind also
2 complements solar seasonally and could provide more
3 consistent output during winter months when solar
4 production is lower.

5 Most recently pursuant to the June 2021 Midterm
6 Reliability Procurement Order, the CPUC published
7 results of the reliability studies which included an
8 annual effective load carrying capability for offshore
9 wind at 36% for 2026, compared to a 22% effective load
10 carrying capability for in state land based wind.

11 Next slide please.

12 Closely related to the previous consideration of
13 addressing shifting peak load is the generation profile
14 of offshore wind. Offshore wind, like other variable
15 output renewables, is inherently uncertain. There's
16 inherent uncertainty associated with the projections
17 about its energy and reliability contributions.

18 In 2020, The Schatz Energy Research Center
19 conducted a study of wind resource generation —
20 conducted a study of the wind resource generation
21 profile in the Humboldt area and found that power output
22 from the offshore wind could be distributed to int — in
23 two extremes: either low to no generation as you can see
24 on the top there, or high generation. There can also be
25 times of high variability as seen on the bottom graph.

1 IRP modeling considers historical weather inputs
2 and their impact on generation and demand and uses them
3 in stochastic analysis to understand reliability of
4 future portfolios. However, additional analysis could
5 enhance our understanding of how offshore wind supports
6 the system and meets peak demand. Real time data is
7 being collected and work continues on this topic that
8 will inform the strategic plan.

9 Next slide please.

10 AB 525 requires the Energy Commission to
11 consider potential impacts on coastal resources,
12 fisheries, Native American and indigenous peoples, and
13 national defense, and strategies for addressing those
14 potential impacts in setting megawatt planning offshore
15 wind goals. The CEC, BOEM and state agencies
16 collaborated to develop the California Offshore Wind
17 Energy Gateway, available on the database and website,
18 that hosts hundreds of publicly available datasets to
19 explore ocean wind resources, ecological and natural
20 resources, ocean commercial and recreation uses and
21 community values.

22 The information on the Gateway was obtained and
23 reviewed in public outreach process with participation
24 by a variety of stakeholders. A public science process
25 helped with the review and evaluation of the datasets to

1 help determine the quality of the data and how it best,
2 how to best represent and use the data set to help plan
3 for offshore wind. These processes include participation
4 by data owners, species subject matters and the public.
5 The work is still ongoing to ensure we have the most up
6 to date science based data and information to support
7 planning and decision making.

8 In addition to understanding and using the data.
9 This works — this work helps identify critical gaps that
10 we are working to fill. This information is also key to
11 inheriting the identification — initiating the
12 identification of suitable sea space to further evaluate
13 the potential for offshore wind as an initial set of
14 information to assess potential for impacts. As
15 required by AB 525, the Energy Commission will
16 coordinate with other agencies, governments and
17 stakeholders to identify suitable sea space to
18 accommodate the offshore wind energy planning goals and
19 make recommendations regarding environmental impacts and
20 use conflicts, and strategies to avoid, minimize and
21 mitigate significant adverse impacts consistent with
22 California's long term renewable energy, greenhouse gas
23 emission reduction and biodiversity goals.

24 The statutory deadline for establishing the
25 planning goals is immediate and is required to occur

1 before the process to identify suitable sea space that
2 can accommodate the planning goals. We plan to
3 immediately begin working on the requirements to
4 identify suitable sea space, once the planning goals are
5 established. Therefore, we'll rely on existing
6 information, including the offshore wind energy gateway,
7 existing environmental reviews and analyses, and other
8 publicly available resources that can draw — we can draw
9 on in considering the potential impacts to establish the
10 planning goals.

11 Next slide please.

12 Decisions to deploy floating offshore wind will
13 result in new infrastructure into the marine environment
14 that will introduce the following effects: structural
15 impediments, sea bottom and habitat alterations, noise,
16 EMF effects, water quality changes, and ecosystem level
17 changes. Through extensive outreach and study, major
18 themes have emerged that help identify a suite of impact
19 concerns.

20 From an ocean uses perspective, tribal
21 governments have identified potential impacts to
22 cultural landscapes and sacred sites. Fishing industry
23 stakeholders have identified potential impacts of
24 fishing and fisheries, including restricted access to
25 fishing grounds, impacts to fish habitat and species,

1 and impacts to specific types of fishing activities such
2 as midwater and bottom trawl.

3 Coastal communities have identified concerns
4 regarding visual impacts from turbines and lighting,
5 increased vessel traffic and potential economic effects
6 of fishing and tourism in dependent coastal economies.
7 From an environmental perspective, potential impacts
8 have been identified to pelagic and benthic fish, marine
9 mammals, sea turtles, marine birds, seabird and habitat
10 disturbance, water quality, and ocean currents and
11 upwelling.

12 There are a multitude of study and research
13 efforts that are available and in process to help the
14 agencies examine the effects of and the potential
15 impacts from these effects for the deployment of
16 offshore wind that will be informative in the BOEM
17 affirm planning and leasing process, and in developing
18 the required analysis for the AB 525 strategic plan.

19 Academic institutions producing research and
20 studies examining a variety of issues are — are
21 producing research and studies examining a variety of
22 issues. Good examples are the work of the Humboldt
23 State University Schatz Energy Center, and the Center
24 for Marine Science at Cal Poly San Luis Obispo, which
25 both have a wealth of information available at their

1 respective websites. Agencies including BOEM, CEC, OPC,
2 and the State Lands Commission have recently completed
3 studies, have studies and progress, and studies about to
4 begin, which will continue to add to the information we
5 already have, fill data gaps and explore new issues that
6 are unique to the deployment of offshore wind.

7 The Ocean Protection Council has funded and co-
8 funded a variety of studies including ongoing work by
9 Conservation Biology Institute or CBI, to further
10 develop and assemble the offshore wind data on database
11 in, and help understand and visualize species and ocean
12 use. Work by po — work by Point Blue Conservation
13 Science to evaluate potential offshore wind locations,
14 and work by the Northern California Commercial
15 Fishermen's Association to identify community mapped
16 fishing grounds on the north coast.

17 Two recent papers are of — that are of
18 particular importance. We call your attention to a
19 paper by Maxwell and co-authors, which investigates the
20 potential impacts of floating wind turbine technology
21 for marine species and habitats, and a paper by Farr,
22 Ruttenberg and co-authors, explored the potential
23 environmental effects of deep water floating offshore
24 wind energy facilities.

25 These papers are the first available to examine

1 a large volume of published work on offshore wind and
2 similar infrastructure deployed in the marine
3 environment, and to synthesize that information as it
4 applies to Cal — California — the California experience
5 of examining offshore wind.

6 The CEC and other agencies are examining this
7 wealth of information as a start in evaluating the
8 potential impacts of offshore wind. Collectively this
9 information supports potential approach to examination
10 of the effects, impacts, and ocean use issues that is
11 helpful to employ when working through the strategic
12 planning process and the BOEM leasing process.

13 Other studies are too numerous to list or
14 discuss here, but as previously mentioned, following the
15 workshop, the CEC will post a list of known studies and
16 links to information hubs so that everyone has access to
17 this body of information.

18 Next slide, please.

19 A possible benefit of deploying wind offshore
20 California is the economic development opportunities for
21 California and the Pacific region from scaling up a new
22 industry. A report — opportunities — a report
23 California offshorwin, (indiscernible), off —
24 (indiscernible), impacts and grid integration conducted
25 by the UC Berkeley Lab — Labor center, indicates that

1 the largest economic development benefits of an offshore
2 wind industry would come from having a local supply
3 chain for manufacturing components used in the
4 development of projects. The offshore wind industry is
5 a global market, and floating technology today is
6 nowhere near having reached economies of scale, but it's
7 projected to do so over the next decade with projects
8 being planned in markets around the world.

9 We recognize that establishing these goals
10 provides an opportunity for this industry to develop a
11 thriving supply chain in California, and through
12 partnerships in the Pacific region and beyond, we can
13 build a thriving national domestic supply chain. And we
14 understand that for industry the size of the goal is
15 important for instilling confidence to make the
16 investments needed for local supply chain development.

17 Economies of scale. We are approaching the
18 requirement that the CEC consider the need for economies
19 of scale to reduce the costs of floating offshore wind
20 with the requirement to consider the potential to
21 attract supply chain manufacturing for components in the
22 Pacific region.

23 We welcome feedback offering a different
24 approach to evaluating supply chain and economies of
25 scale. This is supported in part by an NRL 2020 study

1 in partnership with BOEM and the CPUC to update cost
2 assumptions on offshore wind in California, and found
3 that the levelized cost of energy from offshore wind
4 could decrease by as much as 44% by 2032. Assum —
5 assuming a global deployment of eight gigawatts by 30 —
6 2032.

7 They attribute this potential cost decline to a
8 combination of things including turbine upsizing, which
9 will result in lower per unit costs, economies of scale
10 and efficiencies in manufacturing, and technology
11 innovations which carry reduced material use, improved
12 performance, and improved logistic efficiencies. Each
13 of which involves the development of a robust supply
14 chain.

15 The report and cost estimates do not include
16 other significant investments that will be needed to
17 construct offshore wind such as the port — support
18 facilities, and transmission. Of course, we welcome
19 feedback offering a different approach for evaluating
20 supply chain and economies of scale.

21 Next slide please.

22 In 2020, NRL published a report updating its
23 2016 assessment of offshore wind potential from 150
24 gigawatts to 200 gigawatts. The report included an
25 updated offshore wind speed data set and applied revised

1 input assumptions to generate new estimates of technical
2 potential for floating offshore wind in California. In
3 the report, NRL began with an estimated gross potential
4 capacity of close to 1700 gigawatts along the coast and
5 out 200 nautical miles from shore. After excluding
6 areas with low wind speed and water depths greater than
7 1300 meters, NRL got to the new estimate of 201
8 gigawatts of technical potential.

9 NRL's estimate of technical potential does not
10 account for other important factors such as competing
11 uses or environmental considerations, which can greatly
12 narrow the technical potential down to a more feasible
13 potential. We're proposing a more in-depth analysis of
14 sea space to accommodate the megawatt planning goals as
15 part of this strategic plan, and we'll — and we'll use
16 similar wind speed and assumptions — simili — similar
17 wind speed assumptions and depth limitations.

18 Next slide please.

19 Having a skilled and trained workforce will be
20 necessary to successfully deploying offshore wind in
21 California. We recognize that the workforce opportunity
22 — that the workforce opportunity from a robust offshore
23 wind industry in California is significant. In a report
24 published by the American Jobs project, they projected
25 that with additional state policies aimed toward

1 advancing offshore wind and a build out of 18 gigawatts
2 by 2045, California could see over 17,000 jobs. Without
3 additional policies supporting the growth of offshore
4 wind, they projected a build out of five gigawatts by
5 2045, yielding just over 5000 jobs.

6 We don't view workforce considerations as a
7 primary driver for establishing the amount of megawatt
8 planning goals, but are required by AB 525 to emphasize
9 and prioritize near term actions to accommodate jobs and
10 economic development and consult with representatives of
11 labor organizations and apprenticeship programs.

12 Further, AB 525 directs the CEC to conduct an
13 analysis of the workforce development needs of the
14 California offshore wind energy industry, including
15 occupational safety requirements, the need to require
16 the use of a skilled and trained workforce to perform
17 all work and the need for the Division of Apprenticeship
18 Standards to develop curriculum for in person classroom
19 and laboratory advanced safety training for workers.
20 And also, to make recommendations for workforce
21 standards for offshore wind energy facilities, and
22 associated infrastructure including but not limited to
23 prevailing wage, skilled and trained workforce,
24 apprenticeship, local hiring, and targeted hiring
25 standards and ensure sustained and equitable economic

1 development benefits.

2 We've already started some of this analysis
3 through engagement with the California Labor and
4 Workforce Development Agency, California Workforce
5 Development Board and key labor and trade organizations
6 as we're approaching the upcoming BOEING — BOEM leasing
7 process. For example, we've learned that the California
8 Workforce Development Board has a number of ongoing
9 activities that are helping set a foundation for future
10 offshore wind workforce development, including research
11 on workforce needs and supply chain sourcing, as well as
12 developing models for building regional partnerships,
13 inclusive of employers, organized labor, equity
14 organizations, education and training service providers
15 and local government. We've also been engaging with
16 ports and industry on port requirements and related
17 workforce opportunities and challenges.

18 Next slide, please.

19 Ports and watercraft facilities are a
20 requirement of supporting the installation, operation
21 and maintenance of floating offshore wind. Studies
22 conducted by both BOEM and the — the Schatz Energy
23 Research Center, have found that California's existing
24 ports would require major investment to expand their
25 existing infrastructure, which are along length — which

1 are long lead time investments.

2 Most of these improvements would be related to
3 work structures, lay down areas, storage, heavy load
4 high reach cranes, and potentially dredging for newer
5 expanded facilities. The state is actively taking steps
6 to better understand and address port infrastructure
7 challenges.

8 For example, the State Lands Commission in
9 partnership with BOEM is in the process of building on
10 their existing work by conducting a ports inventory, to
11 better understand infrastructure capability gaps. The
12 State Lands Commission will also be supporting a
13 regional ports assessment to explore any additional
14 opportunities outside of existing ports that may be
15 capable of supporting floating offshore wind activities,
16 especially in parts of the state where limited
17 capabilities exist.

18 In addition, the CEC and state agencies have met
19 with the offshore wind industry and representatives from
20 key ports to better understand the needs of floating
21 offsh — floating technology deployments, and the current
22 opportunities and constraints to accommodate those
23 needs.

24 Finally, in the 2021-2022 state budget, the CEC
25 was allocated 10 and a half million dollars to provide

1 the Humboldt Bay Harbor Recreation and Conservation
2 District to report improvements that can support
3 offshore wind, and the Governor's proposed 2022-2023
4 budget includes a proposed \$45 million allocation to the
5 CEC for supporting port development throughout the
6 state.

7 Next slide, please.

8 Tax incentives. So, the offer when provision of
9 the investment tax credit, or the ITC, allows for a 30%
10 investment tax credit that applies to capital
11 expenditures on projects that start construction before
12 2025, and are completed within 10 years. A safe harbor
13 provision allows for projects that start construction or
14 spend at least 5% of a project's total capital
15 expenditure by the end of 2025, and come online bef — by
16 — by 2035 to capture the benefit of the ITC.

17 The CPUC IRP preferred system plan includes 1.7
18 gigawatts of offshore wind energy through 203 — by 2032,
19 and assumed the 2025 safe harbor ITC deadline could be
20 met by developers. The IRP analysis showed that if the
21 ITC is not part of the offshore wind cost assumptions,
22 then the optimal ris — resource portfolio does not
23 include any offshore wind 2032 beyond the few hundred
24 megawatts included in some load serving entities'
25 individual IRP's

1 When combined with other key offshore wind
2 assumptions, including generation profile, capital and
3 operating expenses, and financing costs, the ITC has the
4 effect in the model of reducing implied levelized cost
5 of energy from the 60 to 70 megawatt hour range to the
6 40 to 50 megawatt per hour range. Or megawatt hour.
7 Excuse me, megawatt hour.

8 An important caveat to unpacking levelized cost
9 of energy used in the NRL report and the CPUC IRP
10 resource modeling, is that the cost of major bulk
11 transmission expansion are not included in the levelized
12 cost of energy or capital expenditure values.

13 However, we don't know the availability of the
14 federal tax incentives will be after 2025, and
15 developers of projects will be in the best position to
16 assess the risk factors involved in making capital
17 expenditures to qualify for the ITC.

18 In the federal — in the vein of federal efforts
19 in March of last year, the Department of the Interior
20 Energy and Commerce announced a shared goal to deploy 30
21 gigawatts of offshore wind in the United States by 2030,
22 while protecting biodiversity and promoting ocean co-
23 use. The Biden administration sees the achievement of
24 this target as a pathway to 110 gigawatts by 2025. The
25 Biden administration and Governor Newsom announced an

1 effort to advance areas for offshore wind up the
2 northern and central coast of California. The Biden
3 administration contextualizes this announcement as part
4 of the nationwide 2030 deployment goals.

5 As shown on the slide and reported by the 2020
6 — reported by the 2021 edition of the USDOE offshore
7 wind market report, there are eight states with existing
8 offshore wind procurement targets totaling close to 40
9 gigawatts by 2040. As part of the announcement of
10 setting a 30 gigawatt goal, the Biden administration
11 announced that BOEM is expecting to hold seven
12 additional lease sales by 2025, the first of which just
13 occurred in the New York Bight last week. BOEM is also
14 planning to review construction operation plans
15 representing more than 19 gigawatts of offshore wind by
16 2025.

17 Next slide please.

18 So here we have a summary snapshot of the known
19 embedded numbers that can inform the development of the
20 offshore wind planning goals and that you've heard
21 throughout the various considerations today. Combined,
22 the Humboldt and Morro Bay wind air — wind energy areas
23 designated by BOEM could support up to 4.6 gigawatts of
24 offshore wind development. The SB 100 Joint Agency
25 Report core scenario built an assumption in the resolved

1 model of 10 gigawatts of available offshore wind in the
2 resource portfolio by 2045.

3 Through the Integrated Resource Plan preferred
4 system planning process, the CPUC identified 1.7
5 gigawatts of offshore wind by 2032. Based on the CPUC
6 2019-2020 resource portfolio, CAISO's sensitivity study
7 assessed the cost of upgrading transmission to
8 accommodate 8.3 gigawatts of offshore wind with the
9 potential to scale up to 21 gigawatts. And in early
10 2020, NRL found that the offshore wind technical
11 resource for California was more than 200 gigawatts.

12 Next slide, please.

13 So that concludes the run through of the 12
14 factors AB 525 requires us to consider in evaluating the
15 offshore wind planning goals for 2030 and 2045. And
16 identified some of the information resources we're
17 looking at, as well as how are we thinking there — they
18 will be shaping the planning goals.

19 We invite and welcome comments that recommend
20 additional studies and information for the CEC's
21 consideration as we continue our research and analysis
22 and prepare a draft report on the evaluation and
23 quantification of the maximum feasible capacity of
24 offshore wind to achieve reliability, ratepayer,
25 employment and decarbonization benefits and establish

1 megawatt planning, offshore wind planning goals for 2030
2 and 2045.

3 We also invite comments on recommendations for
4 how the CEC considers using that information to inform
5 the megawatt offshore wind planning goals as required by
6 AB 525. And we welcome comments on other interrelated
7 aspects of the presentations and discussion today,
8 including the broader AB 525 requirements that were
9 discussed, as well as the upcoming steps in the BOEM
10 leasing process.

11 As a reminder, we would appreciate written
12 comments by March 11 to help inform a public review
13 document — draft document that describes how we're
14 meeting the requirements of AB 525 to establish the
15 offshore wind planning goals. We plan to provide
16 opportunity for public review of the draft document
17 before preparing a final document ahead of the CEC
18 business meeting for consideration by the CEC before
19 June 1, 2022.

20 That was my last slide I believe so thank you.
21 And I will hand it back to Jim.

22 MR. BARTRIDGE: Thanks, Rhetta, excellent
23 overview. Let me turn and ask if anyone on the dais has
24 any questions or comments and if you do, please turn on
25 your video.

1 Okay, one more call for the dais. Going once,
2 like an auction, right. Okay. So I just want to say
3 thanks to all of our presenters and participants today.
4 We'll now move to the public comment period. For that,
5 I'll turn it over to the public comment, public advisors
6 office and they just want to say that the public comment
7 today is really what's helping us with the strategic
8 plan and the goal setting so we definitely look forward
9 to what you have to say and submit written comments
10 afterwards if necessary as well. Thank you so much.

11 MS. AVALOS: Hi. Thank you, Jim. Hello. For
12 the record, I like to introduce myself, I'm Rosemary
13 Avalos and I work with the CEC Office of the Public
14 Advisor Energy Equity and Tribal Affairs.

15 Moment please.

16 Now we'll move on to public comments. For each
17 person you will have up to three minutes to speak and to
18 comment. In zoom click on the raise hand icon. On the
19 phone, press star nine, and to unmute star six. When
20 you are called upon your line will be opened, and please
21 make sure to unmute on your end. And, for the record,
22 please spell your name and state your affiliation, if
23 any, and then begin your comments. So I'm going to move
24 on to the participants and I would Manley McNinch, your
25 line is open.

1 MS. ANDERSON: Manley you should be able to
2 unmute yourself.

3 MR. MCNINCH: There we go. Can you hear me
4 okay?

5 MS. ANDERSON: Yes Great.

6 MR. MCNINCH: Hi, my name is Manley McNinch,
7 that's M-A-N-L-E-Y M-C capital N-I-N-C-H, and I am a
8 special representative for the Southwest Regional
9 Council of Carpenters, Local 805, and we cover the areas
10 from Ventura County through San Louis County. I
11 personally live in Santa Maria, Orcutt area.

12 I've lived in this area since 1979, and I've
13 seen a lot of en --, seen Diablo Canyon come, and now
14 I'm seeing it go. And I've seen a lot of new technology
15 new industry coming in. I want to commend the
16 Commissions for putting the skilled and trained worker
17 language in here to start, you know, focusing in on it.
18 Because it's going to be critical to replace these jobs
19 that we're losing up in that area, and this offshore
20 wind is going to be one of the best ways I've seen yet
21 to be able to do it.

22 It's going to be key that we put the skilled and
23 trained language in there and local hire protections
24 because, currently they just cut through putting a
25 onshore wind project up over in Lompoc, and not one

1 local person from California pretty much, worked on our
2 project. Every, you go out to the job site, it's people
3 from all over the country, except for anyone from the
4 local area. So all that tax dollars, all the money
5 everything just went right back out of, out of Santa
6 Barbara County. And these offshore wind projects are a
7 good way to bring, bring good high paying jobs in and
8 keep the money here. You know and local tax bases
9 because San Luis county is going to take a major hit
10 when Diablo Canyon gets decommissioned. The tax
11 revenues and stuff that could potentially come in off
12 these offshore wind projects is going to be a great shot
13 in the arm for the local counties. Santa Barbara County
14 is going to benefit off of it, and probably even Ventura
15 County as far, depending on where the port operations go
16 in.

17 Hopefully they'll put the one of the ports in
18 off Vandenberg, or excuse me off of Diablo Canyon, and
19 that's be a perfect way to reutilize that property out
20 there to keep it where it's making, helping people make
21 a living and making money. And I'd also like to
22 hopefully see the state people open up that area right
23 off Vandenberg Air Force Base. That's another really
24 good project that would bring great jobs, great income
25 to the local area. Thank you for your time today.

1 MS. AVALOS: Thank you, and now we'll move on to
2 the next commentor. And I'll remind your please, for
3 the record, spell your name and state your affiliation
4 if any. Adam Stern, you may go ahead and begin your
5 comments.

6 MR. STERN: Thank you. I'm Adam Stern. That's
7 S-T-E-R-N, executive director of Offshore Wind
8 California. We're a business group of developers and
9 technology firms dedicated to the responsible
10 development of offshore wind power in our state. We
11 want to thank the CEC for hosting this important
12 workshop today as well as the other state and federal
13 agencies who are participating.

14 Several decades of offshore wind industry
15 experience and academic study have demonstrated
16 conclusively that going big is one of the most important
17 keys to achieving success with this remarkable clean
18 energy technology in California, and other US and global
19 energy markets. For offshore wind, economies of scale
20 will be essential for driving down costs, delivering
21 competitively priced clean power and encouraging
22 industries and jobs to locate in our state.

23 We're seeing it on the US East Coast, where
24 states have made commitments to well over 30 gigawatts
25 of fixed bottom offshore wind, and we're seeing it in

1 Scotland, which in January concluded lease auctions that
2 will put 15 gigawatts of floating offshore wind turbines
3 in the water in the coming decade.

4 These successes are all being driven by
5 economies of scale and advances in wind turbine
6 technology that are dramatically reducing costs that can
7 save ratepayers money while also cleaning up our
8 environment. That's why our organization is encouraging
9 Californians to set bold but realistic goals to generate
10 a minimum of three gigawatts of offshore wind by 2030,
11 at least 10 gigawatts by 2040, and looking ahead at
12 least 20 gigawatts by 2050. This aligns well with the
13 Biden Administration's National goal of achieving 30
14 gigawatts by 2030 and 110 gigawatts by 2050.

15 It's also supported by last year's joint Agency
16 report, which would conclude that for California to
17 reach 100% clean energy by 2045, it will need a diverse
18 portfolio of renewable energy including offshore wind.
19 The studies SB 100 core scenario calls for 10 gigawatts
20 of offshore wind by 2045, or as much as the model would
21 allow. And in its first ever 20 year outlook CAISO has
22 included 10 gigawatts of offshore wind for transmission
23 planning.

24 Our organization believes that offshore wind
25 should be a big part of California's clean energy

1 economy. To make this a reality, we urge the CEC to set
2 ambitious goals for offshore wind in 2030 and 2045.
3 We're off to a good start with the planned auctions at
4 the Morro Bay and Humboldt wind energy areas this fall.
5 We're committed to working with the CEC and other
6 federal and state agencies to provide the best available
7 industry insights and data to make California a leader
8 in floating offshore wind power, much as it is in other
9 renewable energy resources. Thank you for your
10 consideration.

11 MS. AVALOS: Thank you. Moving on to the next
12 commenter, Gary Latshaw, and please for the record spell
13 your name and state your affiliation , if any, and then
14 begin your comments. You may begin.

15 MR. LATSHAW: Hello, my name is Gary Latshaw.
16 Gary G-A-R-Y, Latshaw, L-A-T-S-H-A-W. I belong to a
17 variety of environmental groups but I'm not in a
18 position to represent any of them right now. My request
19 is when it comes to the environmental analysis that you
20 allow, I don't know how to put to this, but you allow
21 some level of degradation, or it might be environmental
22 issues, to allow more power. Your goals are 10 ish
23 gigawatts with a potential of 200. The dangers of
24 climate change are essentially infinite.

25 We may be too late to actually save

1 civilization. So I think that that you should look at
2 higher numbers. Specify what will be lost, and the
3 decision makers will have to decide. And I'm not much
4 of a marine person, but on land it's often the red
5 legged frog. So you're not gonna just just think of how
6 many red legged frogs may be hurt out there.

7 The other thing is, this is also I think, an
8 opportunity for California to be an exporter of a new
9 technology. The floating platforms can be floated to
10 other coasts, either up the coast of Canada and our
11 states above us. Perhaps the next door or maybe even
12 South America. The key is very specialized
13 manufacturing for these very large devices. So I thank
14 you very much for providing this and given it so much
15 detail.

16 Thank you.

17 MS. AVALOS: Thank you. And turning now to our
18 next commenter, Anthony Ventura. And again, please, for
19 the record, spell your name, and state your affiliation,
20 if any, and you may begin your comments. You may need
21 to unmute on your end as well.

22 Go ahead, Anthony.

23 MR. VENTURA: Okay, good afternoon. My name is
24 Anthony Ventura, I'll spell it for you, A-N-T-H-O-N-Y,
25 last name Ventura, V-E-N-T-U-R-A. I am a representative

1 with the Southwest Regional Council of Carpenters, Local
2 805. Pat we have over 1900 members and their families
3 that live in the 805 area.

4 I also was born and raised in on the Central
5 Coast. In San Luis Obispo I was born, went to school
6 there, grade school then went on to Arroyo Grande High
7 School and graduated in 84. We support, we support the
8 clean and renewable energy, but the decommissioning of
9 Diablo Canyon and the loss of good job paying jobs, not
10 to mention all the revenue that we will lose from this.
11 With wind energy, this will bring in new good paying
12 jobs that will build these projects, and the revenue
13 that these projects will generate will go right back
14 into our community and local businesses. This will be
15 environmentally friendly and will offset the jobs and
16 revenue from the Diablo Canyon decommissioning.

17 These projects are exactly what we need to put
18 local residents back to work as the Diablo Canyon starts
19 to phase out. This will have a huge impact on the
20 Central Coast with the loss of jobs and revenue that
21 will impact the local economy. In closing, I strongly
22 support having a local skilled and trained workforce and
23 appreciate that you recognize the value of a skilled and
24 trained workforce.

25 Thank you.

1 MS. AVALOS: Thank you. And moving on to the
2 next commentor, Nancy Rader. And please, for the
3 record, spell your name and state your affiliation, and
4 you may go ahead and begin your comments.

5 MS. RADER: Good afternoon. Nancy Rader R-A-D-
6 E-R, with the California Wind Energy Association. It's
7 very encouraging to see the level of agency
8 collaboration that is evident today, and to see the
9 state's focus rise to the challenges we're facing. I
10 agree with another commentary that's very important that
11 the state set installation targets that are high enough
12 to drive economies of scale and supporting domestic
13 supply chain.

14 But we need a reality check. The recent East
15 Coast auctions have been successful because the fixed
16 bottom technology is proven and available, and there was
17 much greater certainty than we have in California right
18 now, including commitments for power offtake and
19 available port space.

20 California's ambitious goals must be accompanied
21 by careful plans and near term decisions to support the
22 investments that we will need to capture supply chain
23 and jobs for the new floating platforms here in
24 California. The proposed demonstration projects is
25 state waters, which can be online at least four years

1 ahead of the BOEM projects, should be used to evaluate
2 real world impacts, environmental impacts, mitigation
3 measures and technologies and support the buildup of
4 ports, supply chain, and workforce that offshore wind
5 projects will need if they're to assemble floating
6 platforms here in California. By the way, this is
7 Scotland's first step in its long term plans as well.

8 The state also needs to quickly make at least
9 some of the foundational decisions that investors need
10 to see before placing multi hundred million-dollar bids
11 in the upcoming auctions. Before those auctions occur,
12 we need to establish greater market certainty so
13 potential bidders can accurately gauge potential risks
14 and benefits.

15 To that end the state needs to devise a power
16 offtake plan this year for the demonstration and
17 commercial projects. It needs to complete a ports
18 assessment and plan this year. It needs to encourage
19 CAISO to reform its deliverability assessment
20 methodology, which by enabling more efficient use of the
21 grid, can immediately provide assurance of sufficient
22 transmission capacity for at least three gigawatts of
23 Morro Bay capacity.

24 We need to use the next transmission planning
25 cycle to make real progress towards the CAISO's 20 year

1 conceptual transmission plan. And finally, we need to
2 implement CEQUA streamlining measures for all offshore
3 wind related infrastructure to ensure that projects
4 don't get paralyzed and perhaps killed by years of
5 lawsuits.

6 And lastly, we're very concerned about the high
7 auction prices that we've seen on the East Coast. Sky
8 high lease payments could force developers to import
9 everything and drive the cost of offshore wind way up
10 without providing any economic or social benefits to the
11 state. We need BOEM's auction mechanism to include a
12 multiple

13 MS. ANDERSON: Hello, and welcome to black women
14 bare min(indiscernible).

15 MS. RADER: That counter acts these powerful
16 market forces and ensures lasting public support for
17 offshore wind in California. We'll be elaborating on
18 these and other issues in our written comments. And
19 thank you very much.

20 MS. AVALOS: Thank you. Now moving on to the
21 next commenter, Sarah Xu. And again, please, for the
22 record, spell your name, state your affiliation, if any,
23 and you may begin your comment. You may need to unmute
24 on your end as well. Go ahead, Sarah.

25 MS. XU: Good afternoon. My name is Sarah Xu,

1 spelled S-A-R-A-H X as in X-Ray, U as in uniform. And
2 I'm calling on behalf of Brightline Defense, an
3 environmental justice nonprofit based in San Francisco,
4 working on empowering communities to build sustainable
5 environments for clean energy and workforce development.
6 Thank you for this opportunity to comment.

7 Offshore wind has the potential to generate more
8 electricity for the state, and it will be critical for
9 California to achieve its 100% renewable energy goals
10 and create a new green economy. All this can be done
11 while creating 1000's of quality family sustaining jobs
12 in construction and maintenance of offshore wind
13 turbines. As last week's New York Bight auction
14 revealed, there's significant and growing interest in
15 offshore wind and renewable energy.

16 However, we must make sure that this work is
17 equitable increase the long lasting benefits for
18 California and Californians through investment in local
19 communities through strong local hire policies to reach
20 into historically underserved outlying communities, and
21 project labor agreements covering offshore wind related
22 construction, both onshore and offshore.

23 Project labor agreements can deliver more
24 economic benefits to the local communities, build a
25 skilled workforce, and strengthen offshore wind

1 workforce development pathways to long term sustainable
2 careers. The social economic impacts of offshore wind
3 are a significant benefit to frontline communities in
4 the Morro Bay and Humboldt regions. Strong local jobs
5 will create clear pathways for youth communities and
6 sustain where they live. A lack of meaningful and
7 thoughtful development will create and deepen
8 inequalities while forcing the local workforce to travel
9 further to work sites.

10 As a clean air alternative to powering the
11 state offshore wind will diversify our energy mix and
12 strengthen California's overall grid. Through these
13 workforce benefits and more, the California Energy
14 Commission should consider offshore wind deployment
15 about these 10 gigawatts by 2040 to put California on
16 track to a 100% clean energy future.

17 California should go big on offshore wind and
18 create a strong vision for California offshore wind for
19 generations to come. Thank you.

20 MS. AVALOS: Thank you. And moving on to our
21 next commenter, Natalie Nax. And again please spell
22 your name, state your affiliation, if any, and you
23 please may begin your comments. Natalie?

24 MS. NAX: my name is Natalie NAX. That's
25 spelled N-A-T-A-L-I-E N-A-X. I'm speaking on behalf of

1 Ceres, a sustainability nonprofit that runs a coalition
2 of more than 80 major businesses, many of whom have
3 substantial operations in California. The major
4 businesses we work with recognize that climate change
5 poses a significant risk to their long-term economic
6 success, and threatens the livelihood of the communities
7 in which they operate.

8 For these reasons, many publicly supported AB
9 525 to jumpstart California's offshore wind industry
10 including Salesforce, Sierra Nevada Brewing GAP and
11 Workday. These companies see offshore wind as a cost
12 effective clean energy resource and a significant
13 economic opportunity for the state.

14 We urge the Energy Commission to set ambitious
15 2030 and 2045 targets for offshore wind development.
16 Thank you for all your hard work to advance clean energy
17 solutions and we look forward to continued engagement
18 with you on AB 525 implementation. Thank you.

19 MS. AVALOS: Thank you. Now moving on to our
20 next commentor, LorryAnn Velez. And again, please, for
21 the record, spell your name and state your affiliation,
22 if any, and you may begin your comments. Okay, she
23 dropped off. Move on to the next commenter, Ben Grundy.
24 And again, for the record, spell your name, and name
25 your name, and state your affiliation, if any, and you

1 may begin. Thank you

2 MR. GRUNDY: Hi, my name is Ben Grundy, B-E-N G-
3 R-U-N-D-Y, and I'm speaking on behalf of Environment
4 California, a statewide advocacy group that works to
5 tackle global warming protect the ocean and fight for
6 clean air, clean water, open spaces and a livable
7 planet.

8 California's devastating wildfires and current
9 drought emergency underscore the urgent need to
10 accelerate our transition to a 100% clean energy
11 economy. One of the best clean energy sources in
12 California is the wind blowing off our coast where the
13 wind blows faster and harder than anywhere else in the
14 US. To deliver a grid resilience, better air quality
15 and clean energy to Californians, the California Energy
16 Commission must set a strong target for offshore wind
17 development of at least 10 gigawatts by 2040.

18 In our recent report, Offshore Wind for America,
19 we found that California has the technical potential to
20 meet more than 1.5 times our state's entire electricity
21 needs from 2019, just from offshore wind. California
22 cannot afford to maintain its unsustainable dependence
23 on fossil fuels. We must invest in clean energy
24 solutions that we can produce right here in California.
25 And the faster we can move to deploy clean energy

1 instead of burning fossil fuels, the better chance we
2 have for the future. Thank you.

3 MS. AVALOS: Thank you. Now moving on, again to
4 LorryAnn Velez. Again, Lorry, please, spell your name,
5 and state your affiliation, if any. You may go ahead
6 and begin. Okay. I think she's had a little bit of
7 trouble, um, being able to comment.

8 MS. ANDERSON: Rosemary, I'm sorry, she had to
9 be promoted to a panelist so, LorryAnn are you there?

10 MS. VELEZ: Yes I am.

11 MS. ANDERSON: Okay great.

12 MS. VELEZ: Yeah, can you hear me? Okay. Hi
13 my name is LoryAnn Velez, L-O-R-R-Y-A-N-N V-E-L-E-Z. I
14 am with the Barbareño Band of Chumash Indians here in
15 Santa Barbara. I just would like to acknowledge our
16 commissioners for, thank you, for the outreach for
17 tribal communities and we're looking forward for the
18 assessment and working further and furthering our
19 relationship with the commissioners. I want to thank
20 you for your time and very honored to be here today.
21 Thank you.

22 MS. AVALOS: Thank you, LoryAnn. Now turning to
23 Annie Secrest. And again, please Annie spell your name,
24 and state your affiliation, if any, and you may begin.
25 Annie, you may need to unmute on your end.

1 MS. SEACREST: Okay, thank you. Good afternoon.
2 My name is Annie Secrest A-N-N-I-E S-E-C-R-E-S-T, and
3 I'm with the County of San Luis Obispo. So to begin, I
4 would like to express my gratitude to Commissioner
5 Douglas and the rest of the federal and state agency
6 staff members have been working tirelessly and
7 thoughtfully to formulate a strategy for setting and
8 achieving offshore wind goals to help achieve our
9 ambitious climate goals.

10 I'd also like to thank Director Mark Gold for
11 his agency's work to assess the coastline for port
12 infrastructure that can support offshore wind. I humbly
13 ask that the state, that staff at the federal and state
14 agencies keep the Central Coast in mind when assessing
15 how the state can achieve its ambitious offshore wind
16 targets.

17 Our region declared its bipartisan commitment to
18 advancing offshore wind, planning and development, in a
19 letter that was signed by our congressman, California
20 Senator, Assemblyman, County Board of Supervisors, the
21 president of Cal Poly San Luis Obispo, our Tri County
22 Building and Trades Council and a regional economic
23 development consultant.

24 We understand that our challenges and
25 opportunities are different than those up north. The

1 Central Coast has existing transmission infrastructure
2 that can support offshore wind functions. Our region is
3 looking for ways to capitalize on this new potential
4 blue economy, especially in light of the impending
5 closure of Diablo Canyon. We are seeking to keep and
6 develop highroad jobs for our region. We are interested
7 in supporting offshore wind development while reusing
8 infrastructure to keep our beautiful coastline intact.
9 We ask that future efforts include assisting our region
10 in developing this new economy.

11 Thank you for your time.

12 MS. AVALOS: Thank you. And now that closes our
13 public comment period, and we would like to remind the
14 audience that the additional opportunity to submit
15 written comments through our Commission's filing system.
16 There's a link in the chat that you can link to the
17 filing system. And you can also visit the offshore
18 renewable energy webpage on the energy Commission's
19 website, and you'll find the link to submit comments to
20 the docket 17-MISC-01. The deadline is 3pm on Thursday,
21 March 11.

22 Now I invite Commissioner Douglas to return and
23 to provide closing remarks.

24 COMMISSIONER DOUGLAS: Thank you very much,
25 Rosemary, and let me ask just before I provide closing

1 remarks. Would anyone else on the dais like to provide
2 any closing thoughts?

3 (PAUSE)

4 All right. I see a couple people might have
5 their hands up. Eli is that right, or no?

6 (PAUSE)

7 Okay. All right. Well, if you're on the dais
8 and you'd like to speak, go ahead and turn your video
9 on, and otherwise I will start to adjourn this
10 proceeding.

11 I want to thank, again, the interagency staff
12 teams for their close collaboration and their very hard
13 work on offshore wind issues going forward and back over
14 years really. And the leadership group just the
15 tremendous leadership groups and the different agencies,
16 departments, commissions, involved in all of this. My
17 advisors, in particular, for really digging in on the
18 with staff to help prepare for this workshop. And all
19 of the participants, all the speakers, and all the
20 participants in today's workshop.

21 So with that, I very much appreciated the public
22 comment. I want to emphasize the value, and the value
23 to us and the importance of submitting written comments
24 if you would like to do so. And with that, we're
25 adjourned.

1 MR. BARTRIDGE: Commissioner, if I could
2 interrupt you, it looks -

3 COMMISSIONER DOUGLAS: Oh, sorry.

4 MR. BARTRIDGE: - like we do have some more
5 public I apologize for that. Yeah.

6 COMMISSIONER DOUGLAS: Let's do it, not a worry.

7 MR. BARTRIDGE: Thank you. RoseMarie?

8 MS. AVALOS: Yes. I'll go ahead and call on
9 Matthew. Okay, we do have a few more that just came in
10 after we were closing. Go ahead Matthew. Make your
11 comment. And again, please spell your name, state your
12 affiliation, if any, and you may start.

13 MR. MARSHAL: This is Matthew Marshal. M-A-T-T-
14 H-E-W M-A-R-S-H-A-L-L. I'm the Executive Director of
15 the Redwood Coast Energy Authority, and I was trying to
16 sneak in the last public comment before it closed just
17 to acknowledge Commissioner Douglas's work and
18 contributions on this. Hopefully with a different title
19 going forward, I hear, but your leadership on this issue
20 has been very important to us on the North Coast who are
21 very committed to seeing this move forward. And so I
22 didn't want to go off the record. I want to be on the
23 record as communicating from the North Coast our
24 appreciation for your efforts. Thank you.

25 MS. AVALOS: Thank you, and we'll move on to the

1 next public commentor, Varner Seaman. And again, please
2 spell your name and state your affiliation, if any, and
3 you may need to unmute on your end. Thank you, go
4 ahead.

5 MR. SEAMAN: Thank you. My name is Varner
6 Seaman V-A-R-N-E-R, and my last name is Seaman S-E-A-M-
7 A-N. I'm with the American Clean Power Association,
8 California. We're the California branch of a national
9 trade association that's a multi technology clean energy
10 trade association of wind, solar and battery storage,
11 working both nationally as well as in the state of
12 California. Our membership is made up of here in
13 California, of folks who are working on doing the
14 development of offshore wind technology.

15 I just wanted to thank, as other folks that
16 said, to acknowledge the tremendous collaboration
17 between both federal agencies and the state agencies.
18 We, as an industry, very much appreciate this
19 collaboration, and we know that as we go forward, it's
20 going to be very important that we continue to develop
21 that collaboration and strengthen it, and find ways to
22 make sure as we continue down the path forward that that
23 we can keep the momentum that we've already built going
24 forward.

25 And also as others have said, to thank

1 Commissioner Douglas for your leadership and keeping us
2 moving forward in a timely fashion on all this work. I
3 also wanted to just as we, as we look forward to
4 establishing these goals and appreciating all the staff
5 work that's gone into this, and the work that it's going
6 to take in the next few weeks to put together a draft
7 report, we would encourage the state to take an
8 ambitious and an assertive role in terms of establishing
9 the goals as they come forward.

10 At ACP we think that the best way to incentivize
11 and to create that supply chain and create the good jobs
12 and supporting the local jobs creation that this
13 industry has the potential to do so, that a consistent
14 procurement that takes place between now and 2045 is
15 going to be an important way to move forward. What we
16 would encourage, and we'll put this in written comments
17 as well, is that the state look to establish a three
18 gigawatt goal by 2030. and that we, as the state of
19 California, that we look towards adding five gigawatts a
20 year, or five gigawatts every five years or a gigawatt a
21 year, eventually reaching an 18 gigawatt offshore wind
22 target by 2045.

23 We think that that consistent glide path is is
24 complementary with what offshore wind California talked
25 about and a good way to create a strong path forward for

1 this industry. I also want to just echo the comments
2 that Nancy Rader with CALWEA made in terms of support
3 for early action and knowing that we've got a long road
4 in front of us. This is an important year an important
5 year for us to get some clarity in terms of procurement
6 as well as port activity.

7 So with that, thank you very much and we
8 appreciate everybody's time and look forward to working
9 with everyone as we move forward. Thank you.

10 MS. AVALOS: Thank you. Now moving on to our
11 next comment to Nancy Kirshner Rodriguez. And again,
12 please spell your name, and state your affiliation, if
13 any. You may begin. Thank you.

14 MS. RODRIGUEZ: Thank you so much. And good
15 afternoon everyone. Nancy, N-A-N-C-Y, Kirschner, K-I-R-
16 S-C-H-N-E-R, Rodriguez, R-O-D-R-I-G-U-E-Z, and I am with
17 the Business Network for Offshore Wind, and I will echo,
18 as others have said, wishing Commissioner Douglas a
19 great opportunity in her new role and to thank her and
20 the many other leaders that spoke today for their
21 collaboration and commitment to moving offshore wind
22 forward as we look towards a future auction and
23 opportunities for the development of a domestic supply
24 chain and many opportunities for Californians with this
25 renewable energy technology.

1 Business Network for Offshore Wind is a national
2 nonprofit. We do, we have members that range across the
3 spectrum of the supply chain and, and we have been proud
4 to work and partner with many of the organizations
5 commenting here today. We, too, believe that it is
6 extremely important for there to be a significant goal
7 identified, and moving forward, and we do agree with the
8 goal of three gigawatts by 2030, and looking towards as
9 large a result as we can see by 2045. And we recognize
10 and we want to comment on the need for there to be a
11 significant goal to move forward this significant
12 industry and supply chain.

13 We appreciate the many different voices that we
14 are hearing today. We as an organization are committed
15 to working in partnering with others and we look forward
16 to the next level of process here. And we will be
17 submitting written comments as well. Thank you.

18 MS. AVALOS: Thank you. Moving on now to Molly
19 Croll. And again, please spell your name, state your
20 affiliation, if any, and you may begin.

21 MS. Croll: Thank you very much. Molly Croll,
22 C-R-O-L-L. I'm with Avangrid Renewables. We are a land
23 based and offshore wind developer with roughly five
24 gigawatts of offshore wind in development on the East
25 Coast, including the Vineyard Wind One project, which is

1 the first commercial scale project under construction in
2 the US. Of course we'd like to echo a strong amount of
3 gratitude for Commissioner Douglas, we certainly would
4 not be where we are today without your leadership. So
5 thank you.

6 Appreciate the comments from the commissioners
7 on the dais about the work the CEC, the CAISO, the PUC,
8 and other state agencies have done over the last couple
9 of years. Also appreciate your presentation, Rhetta,
10 showing the work that's been done and the resources from
11 academic institutions that can guide the CEC's goal
12 setting process.

13 I'd like to just emphasize that AB 525 is
14 offshore wind planning legislation, and the goals the
15 CEC is assigned to set are planning goals. They will
16 not tie the hands of the PUC, who is proceeding on its
17 own IRP planning and evaluation for how offshore wind
18 fits into reliability, cost and, carbon driven
19 portfolios.

20 So while I agree with Nancy Rader that we will
21 need a broker about for offshore wind, the task before
22 the CEC today is not to determine that. The task is
23 about setting planning goals for the state and setting a
24 vision. So I would argue that the purpose of these
25 goals is really sending the market signal based on long

1 term expected needs, directing planning at the right
2 scale to solve some of our challenges of port
3 infrastructure, and planning for supply chain and
4 infrastructure, and third, quantifying future potential
5 sea space needs so we can do the right environmental and
6 spatial planning ahead of the next wave of offshore wind
7 options.

8 So those three goals, I think, really cover the
9 criteria included in the 525 legislation. So again, I
10 think you know, thinking about this as a top down
11 exercise rather than a bottom ex-, bottom up exercise,
12 will be very helpful. We don't have to get super
13 wrapped around the axle on precisely what's feasible
14 over what timeframe but instead, setting ambitious
15 enough goals with reasonable assumptions about starting
16 point, end point, and pace of development, would be the
17 right way to go.

18 And with that, you know, all levels of industry
19 and developers through the supply chain, I think will
20 rise to meet the opportunity as we've seen on the East
21 Coast. And with that support the goal ACP and B-Now
22 proposed, of three gigawatts in 2030, with five
23 gigawatts every five years, up to 18 in 2045. Thank you
24 very much.

25 MS. AVALOS: Thank you, and I'd like to let the

1 audience know we do have time to continue with public
2 comment and, a reminder to those on the phone, that if
3 you'd like to raise your hand you can press star nine to
4 raise your hand and star six to unmute.

5 So I'll give a little bit time to see if there's
6 anyone else who would like to provide comments. Okay,
7 we have one more commenter, Rachel Koss. Again, please
8 spell your name and state any affiliation, and you may
9 begin.

10 MS. KOSS: Thank you so much, Rachel Koss, R-A-
11 C-H-E-L K-O-S-S, for the Coalition of California Utility
12 Employees or CUE. CUE is a coalition of labor unions
13 with about 40,000 members who work at most of the
14 electric utilities in California and the employees of
15 CUE's begin members build and maintain the electric
16 infrastructure. This includes the transmission systems,
17 and includes marine cable work. We really appreciate
18 the energy Commission's focus on meaningful work force
19 standards and creating good local jobs, and economic
20 opportunities for local communities.

21 There has been a lot of discussion about how
22 developers of offshore wind faced significant
23 competitive market pressures. This is because there's
24 no suitable port facilities for floating offshore wind.
25 There's limited coastal transmission, and no currently

1 existing supply chain. So we expect bids in the auction
2 to be exceedingly high, and we expect developers to cut
3 costs wherever possible. We need to make sure that
4 those developers that choose to take the jobs high road,
5 are not at a competitive disadvantage.

6 So we strongly urge BOEM to level the playing
7 field by implementing a multiple factor bidding system
8 that incentivizes project wide labor agreements, which
9 cover all phases of the project, onshore and offshore
10 construction and installation, as well as the use of
11 skilled and trained workforce.

12 Again, thank you so much for the Energy
13 Commission's focus on these really important issues for
14 our state, and we will be submitting additional comments
15 and writing. Thank you.

16 MS. AVALOS: Thank you. And now, is there
17 anyone else that would like to make any additional
18 comments? Audience, you can raise your hand.

19 (PAUSE)

20 Okay, seeing that there are no other hands
21 raised, I'll turn to Commissioner Douglas. And for now
22 the closing remarks.

23 COMMISSIONER DOUGLAS: All right, well, thank
24 you, Rosemary, and thank you to everyone who made
25 additional comments and I think, you know, I do want to

1 say as I sit and reflect on this workshop, in addition
2 to the thanks to all of the participants, a big thanks
3 to everybody who's been on this offshore wind journey
4 with us here in California since 2016.

5 And we, you know, and I very much look forward
6 to continuing on it in my new role. It's — it's a lot
7 to process sitting here after 14 years on the Energy
8 Commission and knowing I'm about to adjourn my last
9 Energy Commission here, workshop as a commissioner.
10 Certainly not my last Energy Commission workshop. But
11 many thanks again to all of you. We very much look
12 forward to your comments, and I very much look forward
13 to continuing to engage with all of you in the offshore
14 wind space.

15 So, with that, I think we really are adjourned
16 and thanks again.

17 (Thereupon, the Workshop was adjourned at
18 3:20 p.m.)

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CERTIFICATE OF REPORTER

I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were reported by me, a certified electronic court reporter and a disinterested person, and was under my supervision thereafter transcribed into typewriting.

And I further certify that I am not of counsel or attorney for either or any of the parties to said hearing nor in any way interested in the outcome of the cause named in said caption.

IN WITNESS WHEREOF, I have hereunto set my hand this 4th day of March, 2022.



MARTHA L. NELSON,
CERT**367

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I do hereby certify that the testimony in the foregoing hearing was taken at the time and place therein stated; that the testimony of said witnesses were transcribed by me, a certified transcriber and a disinterested person, and was under my supervision thereafter transcribed into typewriting.

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I certify that the foregoing is a correct transcript, to the best of my ability, from the electronic sound recording of the proceedings in the above-entitled matter.



MARTHA L. NELSON, CERT**367

April 4, 2022