

PUBLIC INFORMATION MEETING

Vineyard Wind SEIS Public Meeting

Virtual Public Meeting Day 3

July 2, 2020

5:00 p.m.

1 P-R-O-C-E-E-D-I-N-G-S

2 OPERATOR: Welcome. And thank you for
3 standing by.

4 At this time, all participants are in a
5 listen-only mode until the public comment session of
6 today's conference. At that time, you may press
7 Star 1 on your phone; clearly spell your first and
8 last name to get in the queue for public comments.

9 I would like to inform any parties that
10 today's conference is being recorded. If you have
11 any objections, you may disconnect at this time.

12 I would like to now turn the conference over
13 to our host, Christine Davis.

14 Christine, you may begin.

15 CHRISTINE DAVIS: Hello, everyone.

16 Thank you so much for joining us today. I'm
17 with ERM; and we're a third-party contractor working
18 with BOEM staff on the environmental review of the
19 Vineyard Wind Project. I'm here to help facilitate
20 and guide you through this meeting.

21 Appreciate you taking time to share your
22 thoughts with us.

23 The purpose of today's meeting is to gather
24 your input on Vineyard Wind's Offshore Wind 1

1 Project, and more specifically, on the Supplement to
2 the draft Environmental Impact Statement.

3 Your input will be used to refine and finalize
4 the final Environmental Impact Statement on this
5 project. As such, we are recording and have court
6 reporters documenting the meeting for the public
7 record.

8 We learned during our first couple of meetings
9 that some might want to ask questions right away. So
10 please note those of you that are on Zoom, there's a
11 Q & A function to address questions; and we use the
12 chat function to address any technical issues. I'll
13 talk more about Zoom in just a few minutes.

14 Before we go any further, I'd like to welcome
15 Bill Brown. Bill is with the Bureau of Ocean and
16 Energy Management and he is the Chief Environmental
17 Officer.

18 BILL BROWN: Hello -- hello, everyone.

19 As Chris said, I'm the Chief Environmental
20 Officer, and I oversee environmental science
21 assessment and regulation for BOEM's activities on
22 the Outer Continental Shelf, generally, including
23 wind energy development off the Atlantic Coast.

24 I thank you for joining us today at this

1 public meeting. I'm sorry we can't be together in
2 person, and I hope that you and your families and
3 friends are all safe and healthy. On the other
4 hand, I'm glad we have this technology to help us
5 meet this way.

6 So who are we? BOEM is a federal agency that
7 oversees development of federal offshore energy and
8 mineral resources subject to environmental
9 safeguards. We cover nearly 2.5 million acres,
10 which is a larger land area than the United States.
11 So it's a big job, and it includes offshore wind and
12 other renewable energy resources.

13 We have been working over 10 years with
14 states, tribes and diverse stakeholders to identify
15 the best areas for offshore wind development. We
16 have 16 active leases on the Atlantic currently from
17 Cape Cod to Cape Hatteras, and we foresee
18 development of nearly 22 gigawatts of electrical
19 power contributing to state goals of almost 30
20 gigawatts.

21 Under these leases, we have approved 10 site
22 assessment plans, and we are currently reviewing
23 seven Construction and Operation Plans, which we
24 call COPS.

1 We expect up to eight additional COPS will be
2 submitted for our review over the next 12 months.
3 That's a big load, and we've hired new staff, and
4 they're using third-party contractors to help manage
5 that.

6 The first turbines ever on the OCS were just
7 installed in this past month offshore in Virginia,
8 the Coastal Virginia Offshore Wind Project, and we
9 anticipate a dozen commercial-scale wind farms
10 during the next decade.

11 We want to make sure these projects are done
12 right with thoughtful consideration of all ocean
13 uses: Wind energy, commercial fishing, maritime
14 navigation and more. There will be impacts, but our
15 goal is for all users to coexist successfully.

16 Our task requires getting the best information
17 we can, analyzing impacts and alternatives as well,
18 and identifying mitigation. We want to establish a
19 strong foundation for all projects going forward.
20 These public meetings are an opportunity to help us
21 meet this goal and to hear from you about the
22 Vineyard Wind Project in particular.

23 Vineyard Wind is the first commercial offshore
24 wind project analyzed under the one federal decision

1 process. We've modified our approach since we've
2 worked through that process, and we believe the way
3 we're doing it now will facilitate future project
4 permitting.

5 To note, BOEM received over 300 comments from
6 stakeholders and cooperating agencies on the
7 Vineyard Wind draft Environmental Impact Statement;
8 some of these requested more robust analysis of
9 cumulative impacts. As a consequence of these
10 comments, we prepared a supplement to the draft
11 Environmental Impact Statement to the proposed
12 Vineyard Wind 1 offshore energy project and opened
13 the document for public comment on June 12. And
14 that's why where we're here today.

15 The supplement expands the reasonably
16 foreseeable future offshore wind development
17 scenario in the draft EIS and analyzes the effects
18 for that scenario.

19 The supplement also analyzes previously
20 unavailable fishing data and transit lane
21 alternative proposed by the fishing community and
22 changes to the Construction and Operation Plans of
23 the Vineyard Wind since the draft EIS was published.
24 This enhanced analysis will support and service

1 models for reviewing future projects.

2 That's why your comments on the supplement are
3 vitally important. We are making every effort to
4 hear from everyone concerned. This is one of five
5 virtual public meetings we are holding during the
6 comment period. Your input will help us to get it
7 right. We are committed to a permitting process
8 that minimizes user conflicts and establishes a
9 strong foundation for Wind projects moving forward.

10 Thank you and stay well.

11 Now I would like to invite Lisa Engler,
12 director of the Massachusetts Office of Coastal Zone
13 Management to offer her remarks.

14 LISA ENGLER: Thank you, Bill.

15 Good evening, everyone.

16 On behalf of Energy and Environmental Affairs
17 Secretary Kathleen Theoharides, we are pleased to
18 welcome the Bureau of Ocean Energy Management for
19 tonight's public meeting on the supplement to the
20 draft Environmental Impact Statement for the
21 Vineyard Wind 1 project.

22 Joining me from fellow Massachusetts agencies
23 are Bruce Carlile, from the Massachusetts Clean
24 Energy Center; and Mike Pole (phonetic) from the

1 Massachusetts Division of Marine Fisheries. We're
2 looking forward to the presentations and the
3 opportunity to hear your comments and input to the
4 federal review process for this project.

5 Global climate change presents a serious
6 threat to the commonwealth environment, residents,
7 community and economy. Governor Baker has expressed
8 the need for action, stating, "The magnitude of the
9 impacts from climate change requires all of us to
10 put politics aside and act together quickly and
11 decisively. We still have the opportunity to check
12 the severity of future impacts by aggressively
13 reducing greenhouse gas emissions and adapting to
14 the changes that are ongoing."

15 With the 2008 Global Warming Solutions Act,
16 Massachusetts became one of the first states in the
17 nation to require a carbon emission reduction of at
18 least 80% below 1990 levels by 2050 with interim
19 targets every decade. We are on track to meet our
20 2020 goal of a 25% reduction from 1990. In
21 addition, in December of last year, Governor Baker
22 committed the Commonwealth to net zero emissions by
23 2050.

24 Meeting these targets will include efforts and

1 commitments by the public and private sectors and
2 will require changes to business as usual.

3 Responsibly sited, developed and operated offshore
4 winds will be key to meeting new carbon emission
5 reduction targets.

6 For more than a decade, we have worked closely
7 with our federal, state, local and tribal partners
8 through BOEM's intergovernmental task force on
9 offshore energy in the planning, siting, leasing and
10 review of potential offshore wind projects on the
11 Outer Continental Shelf.

12 We have also worked closely with stakeholders
13 through state-formed fisheries and habitat working
14 groups on offshore wind and in community-based
15 meetings and discussions.

16 The fishing industry is a critical partner in
17 the development of offshore wind, and we value the
18 opportunity to use these forums for important
19 dialogue and feedback in the responsible development
20 of offshore wind.

21 Under Governor Baker's leadership, the Energy
22 Diversity Act was passed in 2016 to allow for the
23 solicitation of 1600 megawatts of offshore wind.
24 This led to the successful procurement of the

1 Vineyard Wind 1 Project in 2018, which will result
2 in significant greenhouse gas emissions at a highly
3 competitive price.

4 Massachusetts has continued to lead the
5 development of the offshore wind market in the U.S.,
6 and in 2018, passed additional legislation that
7 doubled the amount of offshore wind energy
8 solicitation to 3200 megawatts.

9 The development of the offshore wind market
10 will lead to substantial economic development in the
11 Commonwealth and the region bringing necessary clean
12 energy that will provide significant greenhouse gas
13 emissions reduction.

14 The Federal National Environmental Policy Act
15 review process led by BOEM is a critically important
16 component in our collective responsibility to avoid,
17 minimize and mitigate potential adverse effects.
18 And in the case of the Vineyard Wind Project, the
19 SEIS has provided a broader substantive basis for
20 reviewing the project within the context of other
21 offshore wind development. The cumulative analysis
22 included in the SEIS ensures that potential impacts
23 beyond this individual project are evaluated.

24 In parallel to the BOEM review, the Vineyard

1 Wind Project was also reviewed by state agencies,
2 including the Massachusetts Department of
3 Environmental Protection, the Energy Facility Siting
4 Board, the Massachusetts Environmental Policy Act
5 Office, The Department of Public Utilities, and the
6 Massachusetts Office of Coastal Zone Management.
7 This Massachusetts State review is now complete.

8 Thank you all for joining us virtually
9 tonight. Your participation is so important as we
10 continue to work with agencies, stakeholders and
11 local communities in the review of the BOEM
12 commercial leasing construction and operations
13 process.

14 Thank you. And I'll turn it back over to
15 Christine.

16 CHRISTINE DAVIS: Thank you, Lisa.

17 Looking at the agenda now, BOEM will provide a
18 project overview, discuss the environmental review
19 process and next steps.

20 We'll open the meeting for public testimony,
21 and then we'll close by answering your questions. As
22 a reminder, the focus of the meeting today is to
23 provide public comments. So let's spend the bulk of
24 our time together on that agenda item.

1 Everyone who would like to provide comments
2 today will need to press Star 1 and speak with a
3 live operator to get in the queue. Even if you're
4 pre-registered, you'll need to the press Star 1.
5 Please note that it may take the operator a little
6 bit of time to get to you, so please be patient.

7 Again, the steps for everyone who wants to
8 speak, including pre-registered people, is to press
9 Star 1, wait to speak to the live operator. So if
10 you've not already done so, please do so now or
11 anytime before we begin public comments.

12 So we can provide as many interested parties
13 as possible the opportunity to provide public
14 comments, we ask that you keep your comments to
15 approximately five minutes.

16 As an attendee, you're not going to be on
17 camera today but your voice will come through on
18 phone. Those of you that are on phone only, that --
19 you know, we'll be able to hear you too, so thank
20 you.

21 Only the BOEM in ERM presenters and I will be
22 on video today. Please note that oral comments will
23 be provided, are going to be on the record, and the
24 entire meeting is being recorded.

1 So welcome to Zoom, for those of you that are
2 on the Zoom.

3 You've heard me refer to the Q & A and chat
4 functions. You should be able to see the icons at
5 the bottom of your screen. If you click on the Q &
6 A icon, you'll see a box pop up for you to type in a
7 question. We'll answer the bulk of the questions at
8 the end of public testimony so that we can maximize
9 our time to public comments.

10 Some questions with short answers may be
11 addressed right away, but for others, we will have
12 subject matter experts ready to respond in person
13 later in the meeting. Do not be alarmed if you
14 don't see your question right away. The questions
15 will show up as we answer them verbally during that
16 Q & A session.

17 As briefly noted, please only use the Zoom
18 chat function to alert us to a technical issue. Like
19 me, I lost power for just a little bit, but I'm
20 back. So if you have any kind of technical issues,
21 please do use that chat function. Later on, we'll
22 use Zoom and we will use that for the public
23 comment.

24 Attendees will only use the raise-hand

1 function if we call on you.

2 If at any time you have technical challenges
3 using Zoom, you can continue to participate in this
4 call by using the number 1-888 -- 1-888, three
5 eights, good grief -- 606-7043, and a participant
6 code 6516733#.

7 If you want to give public testimony and have
8 not already done, so please press Star 1 and speak
9 to our live operator to get in that queue.

10 Does anyone have any questions right now about
11 Zoom or the phone line that you'd like to ask at
12 this time? So type a Q & A, or press Star 1, and,
13 Isis, I will defer to you. Any questions that we
14 need to address?

15 ISIS FARMER: Hi, Christine. I think we have
16 one question. And I think the question is: If
17 someone presses Star 1, and they get the automated
18 operator, not a live operator, whether or not
19 they're in the queue?

20 So I think, you know, you should -- once you
21 press that Star 1 key, I just want to note that the
22 operator -- you know, we only have two operators for
23 all of the attendees who are on our line. So it may
24 take a little while for that live operator to get to

1 you.

2 But if you have any questions about where you
3 are in the queue, feel free to, you know, send us a
4 chat and we'll check your name and get back to you
5 in the chat.

6 CHRISTINE DAVIS: You know, that's a great
7 point, Isis. We will be using the chat function
8 later on to provide a list of about five names at
9 a time in the queue, so be patient with us. I do
10 believe we've got a number of people that have
11 already pressed Star 1, so we'll be putting those
12 names in about five at a time, but you'll have
13 enough time to prepare and know where you are in
14 that queue.

15 All right. So at this time, I'm going to turn
16 it over to Jennifer Bucatari from the Bureau of
17 Ocean Energy Management. She'll explain the
18 environmental review process and then provide an
19 overview of the supplements of the draft EIS. After
20 her presentation, we'll begin that public testimony
21 period.

22 As a reminder to sign up for comments later
23 on, please make sure you press that Star 1 and wait
24 for that operator, give them enough time.

1 With that, I'm going to turn it over to Jenn.
2 Jenn, are you on?

3 JENNIFER BUCATARI: Yep, I'm here.

4 CHRISTINE DAVIS: All right, great.

5 JENNIFER BUCATARI: Great. Thanks,
6 Christine.

7 Hello, everyone and welcome to the Vineyard
8 Winds Supplement to the draft Environmental Impact
9 Statement, also known as the SEIS Virtual -- Virtual
10 Public Meeting.

11 As Bill previously mentioned, BOEM is the
12 Federal Bureau within the Department of Interior
13 that oversees the development of our energy and
14 mineral resources subject to environmental
15 safeguards. We cover the nearly 2.5 billion acres
16 of the nation's Outer Continental Shelf, or as we
17 call it, the OCS, including the development of
18 marine minerals, oil and gas, and renewable energy
19 resources.

20 We appreciate your participation in this
21 meeting and look forward to hearing your comments
22 following that summary presentation.

23 As mentioned, my name is Jennifer Bucatari,
24 and I'm one of the environmental coordinators in

1 this project.

2 To the greatest extent possible, we are
3 working to maintain services to the American people
4 and our stakeholders consistent with evolving
5 guidance provided by the CDC and state and local
6 health authorities. As such, we're moving forward
7 with our public meeting in a virtual environment in
8 order to provide information to our public in the
9 safest and most efficient way possible and to
10 receive feedback from our stakeholders.

11 These public meetings, while virtual, are
12 still an opportunity for public involvement and an
13 opportunity to provide comments on the supplemental
14 EIS.

15 BOEM has developed a virtual meeting room web
16 page. You can see the address here at the top of
17 the slide. You likely probably visited this page
18 already to register, but either way, we encourage
19 you to explore this page and the additional content
20 that we have here.

21 The content on this slide shows the poster
22 stations that we have on a virtual meeting web page.

23 The posters and the presentations that are on
24 the next slide are meant to mimic the stations that

1 we normally have at an in-person meeting.

2 The posters seen here relay a brief summary of
3 important topics to our stakeholders.

4 On the slide, we have the presentations that
5 are listed on the virtual meeting web page. These
6 are summaries of important -- of impacts in several
7 key topics or resource areas.

8 The presentations were developed and recorded
9 by the BOEM subject matter expert who also developed
10 the supplemental EIS impact analysis for that
11 resource.

12 The National Environmental Policy Act, or
13 NEPA, is a law requiring federal agencies to assess
14 the environmental effects of the proposed action and
15 reasonable alternative. The NEPA process collects
16 relevant information for the decision-maker to
17 either approve, approve with conditions or
18 disapprove the plan.

19 Through the NEPA process, an Environmental
20 Impact Statement, or EIS, must be prepared if the
21 agency is proposing a major federal action that may
22 significantly affect the quality of the human
23 environment.

24 The purpose of the analysis is to outline the

1 impact of a proposed project on its surrounding
2 environment. The process also includes public
3 scoping, public comment period, and an analysis of
4 reasonable alternatives and cumulative effects.

5 BOEM's renewable energy leasing and
6 development process occurs in four phases. For the
7 Vineyard Wind 1 Project, we are in the fourth phase,
8 as you can see here on the right. This includes
9 conducting an environmental review of the lessees'
10 Construction and Operations Plan, or COP.

11 The draft EIS was published for public review
12 in December of 2018, and a supplement to the draft
13 EIS, the SEIS, was published on June 12, 2020.

14 The Vineyard Wind 1 Project proposed project
15 location, as seen here in this 12 nautical miles at
16 its nearest point to land. The project is situated
17 southeast of Martha's Vineyard. The proposed cable
18 landfalls are in two locations on Cape Cod, Lewis
19 Bay or New Hampshire Avenue.

20 A brief background on the project is presented
21 here.

22 The development of the supplemental EIS began
23 following public hearings that were held in February
24 2019. Comments from the public and stakeholders

1 requested and expanded cumulative analysis and
2 analysis efficient data previously unavailable to
3 BOEM. In addition to this, there were updates to
4 the Construction and Operations Plan that were
5 submitted by Vineyard Wind on January 31st and March
6 9th, 2020.

7 BOEM developed the supplemental EIS to address
8 comments from the public and stakeholders, expand
9 the cumulative analysis, analyzed previously
10 unavailable fishing data, analyze the new
11 alternative and project changes.

12 As mentioned in January and March 2020,
13 Vineyard Wind submitted -- submitted updates to the
14 Construction and Operations Plan which included
15 changes to the project envelope and onshore
16 substation. The updates included an expansion of
17 the turbine capacity to include up to 14 megawatt
18 turbines. The total project capacity still remains
19 at 800 megawatt, and a change to the turbine
20 capacity does not result in a change to the
21 footprint or to the minimum turbine capacity, which
22 is eight megawatts.

23 The proposed project includes up to 106 wind
24 turbine locations with up to 100 wind turbines. Up

1 to -- up to 12 jacket foundations may be used, 10
2 for the turbine foundations and up to two for the
3 electrical service platform. Any remaining
4 foundations would be monopile.

5 Vineyard Wind also submitted changes to the
6 onshore substation. For the expanded substation, the
7 total approximate area of ground disturbance would
8 be 7.7 acres, which is 1.8 acres greater than the
9 area analyzed in the DEIS, or the draft EIS.

10 The notice of availability for the SEIS, or
11 supplemental EIS, was published on June 12th, 2020,
12 in the Federal Register. We are holding a series of
13 five virtual public meeting, as seen here. We're on
14 the third public meeting right now. The comment
15 period will close after 45 days on July 27th, 2020.
16 For additional project related info, please see the
17 project website here.

18 To be most helpful, comments should be as
19 specific as possible. A substantive comment
20 discusses the accuracy of the information; suggests
21 alternate methodologies and the reason or reasons
22 why they should be used; provides new information
23 relevant to the analysis; identifies a different
24 source of credible research, which, if used in the

1 analysis, could result in different effects; or
2 provides clarification when needed.

3 The table on this slide outlines some notable
4 sections of the supplemental EIS, including where
5 you can find more information about the
6 environmental analysis, the cumulative impact
7 scenario, the project envelope, and the status of
8 environmental consultation. All the supplemental
9 EIS includes analysis of the direct and indirect
10 impacts of the proposed action.

11 The focus of the supplement is on the expanded
12 cumulative impact scenario, the new alternatives,
13 and information that has changed or become available
14 the issuance of the draft EIS.

15 This inverted triangle represents the
16 different levels of reasonably foreseeable
17 development we considered in the cumulative
18 scenario. A bar usually encompasses the bar below
19 it, but the lower bars will often be duplicative
20 rather than additive.

21 For example, Vineyard Wind 1 is already
22 included in the 5.4 gigawatts of the Construction
23 and Operations Plan submitted or approved, which is
24 that second bar from the bottom.

1 The previous standard for the scope of
2 reasonably foreseeable offshore wind development was
3 based on projects permitted, and then added to this,
4 projects entering the construction permitting
5 process. This time we began by examining the
6 greatest number of possible projects and then
7 eliminated offshore development that would be
8 unreasonable to consider based on the lack of state
9 demand or technical inability.

10 The top bar is the total Atlantic offshore
11 wind technical resource potential. This bar
12 represents how much wind energy is available on the
13 Atlantic Outer Continental Shelf with present
14 technology. Such a build-out is not only materially
15 and physically impossible, but also the amount of
16 energy exceeds the demand of the entire eastern
17 United States; thus, this level was not determined
18 to be reasonably foreseeable.

19 The second bar down is the technical resource
20 potential of the Atlantic call, wind energy and
21 lease areas. Call areas are areas that have not
22 been leased and are still being evaluated for
23 whether they are suitable to be offered for lease.
24 There's no guarantee that such areas will make it to

1 the leasing stage; therefore, evaluating
2 construction on them is premature. And this level
3 of development was not considered reasonably
4 foreseeable at this time.

5 The third bar down is state capacity
6 commitments. While the tier system and the draft
7 EIS looked at development from a regulatory and
8 projects perspective, in this scenario, we examined
9 future projects from a state demand perspective.

10 This number has grown over the last several
11 months and it's currently at about 29 gigawatt with
12 the recent additional commitments from New Jersey.
13 This exceeds the technical resource potential of
14 existing Atlantic leases with existing technology
15 and includes New York commitments that have been
16 made in anticipation of future leasing; therefore,
17 this doubled development was deemed not reasonably
18 foreseeable at this time.

19 The fourth bar from the top is the technical
20 resource potential of the existing Atlantic leases.
21 State capacity commitments are not evenly
22 distributed along the coast and, perhaps
23 surprisingly, are not tied to the existing available
24 leased capacity within transmission range. For

1 example, the state capacity commitments of New York
2 and New Jersey exceed the technical resource
3 potential of leases in transmission range for those
4 days.

5 Also, there are going to be conflicts such as
6 with cultural resource sites, historical sites,
7 essential fish habitat and navigation that will make
8 developing the entire technical resource potential
9 of existing Atlantic leases impossible; therefore,
10 this level of development is not considered
11 reasonably foreseeable.

12 This fifth bar from the top and all of those
13 that follow below it make up our reasonably
14 foreseeable cumulative scenario. This includes any
15 projects with awarded offtake and any projects that
16 have entered or announced their intention to enter
17 the permitting process and, of course, any approved
18 projects. Basically, if a project has a name, it is
19 included in the reasonably foreseeable scenario.

20 After considering all projects with awards,
21 Construction and Operation Plans, or that have been
22 announced, there's still some state capacity
23 leftover that has not been awarded. This potential
24 for additional future development beyond named

1 project is also accounted for and analyzed in the
2 scenario.

3 If you would like additional information on
4 the cumulative scope, or to hear this presented
5 again, please visit the virtual meeting web page to
6 listen to a presentation on the subject.

7 Alternative A, the proposed action
8 alternative, is a construction, operation,
9 maintenance and eventual decommissioning of an up to
10 800 megawatt wind energy facility on the Outer --
11 Outer Continental Shelf. Offshore Massachusetts
12 within the proposed projects area and associated
13 export cables would occur within the range of design
14 parameters outlined in the Vineyard Wind
15 Construction and Operations Plan subject to
16 available mitigation measures.

17 The additional action alternatives and the
18 no-action alternative are presented here.

19 Alternative B, the Covell Beach landfall
20 alternative, excludes the New Hampshire Avenue
21 landfall location to potentially reduce impact on
22 environmental and socioeconomic resources.

23 On June 26th, 2020, Vineyard Wind informed
24 BOEM that they are no longer pursuing the New

1 Hampshire Avenue landing site. While the New
2 Hampshire Avenue site was included in the
3 Construction and Operations Plan, Vineyard Wind has
4 obtained all of the state and local permits
5 necessary to bring the cable on shore at the Covell
6 Beach landing site.

7 Alternative C excludes surface occupancy in
8 the northernmost portion of the proposed project
9 area to potentially reduce impacts from the proposed
10 project and to reduce potential conflicts to
11 existing ocean users such as marine navigation and
12 commercial fishing.

13 Alternative D-1 would require a minimum of
14 one-nautical-mile-by-one-nautical-mile spacing
15 between wind turbine generators and the lanes
16 between them. This alternative would potentially
17 reduce conflicts with existing ocean uses such as
18 commercial fishing and marine navigation.

19 Alternatives D-2 would require a layout and an
20 east-west orientation. And all of the turbines in
21 the east-west direction would have a minimum spacing
22 of one nautical mile between them to allow for
23 vessels to travel between turbines and to reduce
24 conflicts with existing ocean users such as

1 commercial fishing.

2 Alternative E reduces the project size no more
3 than 84 turbines. This alternative would
4 potentially reduce impacts on existing ocean users
5 and on environmental resources due to the fewer
6 number of foundations.

7 Alternative F is the new alternative, which
8 would include a vessel transiting through the wind
9 development area in which no surface occupancy would
10 occur. Any turbine presently planned for this area
11 would be moved further south in the wind development
12 area. This alternative could potentially facilitate
13 transit of vessels through the project area from
14 Southern New England Port to fishing areas on
15 Georges Bank.

16 Alternative G is the no-action alternative. In
17 this alternative, the proposed project would not be
18 approved in any potential action economic --
19 socioeconomic and environmental benefits associated
20 with the proposed project -- sorry -- socioeconomic
21 costs and benefits associated with the project would
22 not occur. However, impacts from reasonably
23 foreseeable future offshore winds and non-wind
24 related activities would still occur. This

1 alternative is required to be analyzed under NEPA.

2 Since the draft EIS was published, a new
3 alternative has been added and analyzed in the
4 supplemental EIS. Alternative F, the vessel transit
5 lane alternatives, include the new vessel transit
6 lane in response to the January 3rd, 2020,
7 Responsible Offshore Development Alliance, known as
8 RODA, layout proposal. The RODA proposal includes
9 six total designated transit lanes, each at least
10 four nautical miles wide, as seen in the figure
11 here.

12 Although the proposal includes six total
13 transit lanes, only one of those lanes intersects
14 the Vineyard Wind Projects, as shown in this figure.

15 As mentioned, the purpose of the proposed
16 northwest-southeast transit corridor would be mainly
17 to facilitate -- facilitate vessel transit from
18 Southern New England ports, primarily New Bedford,
19 to fishing areas on Georges Bank. The transit lane
20 would have no occupancy, and therefore, the turbines
21 that could have occurred in these areas would not be
22 eliminated but instead a displaced turbine would be
23 shifted south within the Vineyard Wind lease area.

24 The layout shown in this figure, this is in

1 Appendix A, and it's Figure A.7-17, is for
2 illustrative purposes only and does not guarantee
3 that the positions identified by the black dots are
4 buildable. The layout is based on the all developer
5 agreement for east-west orientation and
6 one-nautical-mile-by-one-nautical-mile spacing.

7 The positions -- the positions shown do not
8 necessarily represent future turbine location, but
9 the intent of the figure is to show the potential
10 displacement of turbines if all six transit lanes
11 were to occur. The turbine locations within the
12 pale yellow lane would not be utilized.

13 Under the current cumulative scenario,
14 displacement of all these turbine locations is not
15 feasible, and, therefore, the addition of all six
16 transit lanes would lead to the elimination of some
17 of the turbines that could have occurred within
18 these lanes.

19 Our impacts analysis included biological,
20 physical and socioeconomic resources as seen here.
21 The subject matter experts to analyze impacts to
22 these resources are also on this webinar and will be
23 here to answer questions later in the meeting.

24 These same resources are also seen in the

1 summary table that you can find in the executive
2 summary in the front of the SEIS. This table
3 summarizes the overall direct and indirect and the
4 cumulative impact level for each resource.

5 The following five slides have the summaries
6 for additional resources that are not seen on this
7 slide.

8 I will discuss the impact levels for specific
9 resources in more detail in a few slides. But I
10 wanted to orient you to the table and some key
11 elements to the analyses here. More detailed
12 analyses and impact levels for future offshore wind
13 activities may be found for each resource in Chapter
14 3 and in the table and Appendices A, as in an apple,
15 and B, as in boy, of the supplemental EIS.

16 The color coding in the table indicates if the
17 highest impact level is minor, moderate or major;
18 with green being minor, yellow moderate and orange
19 major. You can find the definition of impact levels
20 in Table 1.2-3 in Appendix B, as in boy, of the
21 supplemental EIS.

22 In addition, there is a poster on the project
23 web page -- the virtual meeting web page, I should
24 specify -- which details the impact level

1 definition.

2 For resources with an indirect and direct
3 impact level of negligible or minor, the impacts
4 analysis have been moved to Appendix A, as in apple.

5 This was done to meet the page limit goals outlined
6 in the Department of Interior's Secretarial Order
7 3355.

8 To understand the cumulative impact for each
9 resource, BOEM analyzed the effects of the no-action
10 alternative, which includes baseline conditions,
11 ongoing activities of all types and future offshore
12 activities other than wind. We then follow this
13 with an analysis of future offshore wind activity
14 and the potential cumulative effects of the proposed
15 action and action alternatives.

16 Resource impact levels seen here on this slide
17 include terrestrial and coastal fauna, coastal
18 habitat, benthic resources, and fin fish,
19 invertebrates and essential fish habitat. Additional
20 resource impact levels, as seen here, include marine
21 mammals, sea turtles, demographics, employment and
22 economic and environmental justice. Again, we'll
23 speak about notable differences between alternatives
24 in future slides.

1 Resource impact levels seen here on this slide
2 include cultural, historical and archaeological
3 resources, recreation and tourism, and commercial
4 fisheries and for-hire recreational fishing.

5 The overall resource impact levels seen on
6 this slide include land use and coastal
7 infrastructure and navigation and vessel traffic.

8 The resource that you see here on this slide
9 is other uses. Other uses encompasses research and
10 surveys, military and national security, aviation
11 and air traffic, cable and pipeline and radar
12 system.

13 And, finally, on this slide, the resources you
14 see include air quality, water quality, bird and
15 bat. All of these resources are included in
16 Appendix A, as an apple.

17 Excuse me.

18 Here we will discuss the direct and indirect
19 impacts of the proposed action. As summarized in
20 the executive summary table and assessed in detail
21 in Chapter 3 of the supplemental EIS, BOEM
22 determined for most resources, direct and indirect
23 impacts were negligible to moderate with some major
24 short-term and long-term impacts. The proposed

1 action or certain action alternatives could have
2 major direct or indirect impact on environmental
3 justice communities and other uses.

4 The following major impacts of these resources
5 are anticipated:

6 Major direct impacts on environmental justice
7 communities could occur from the proposed action and
8 alternatives other than Alternative B, which is the
9 Covell Beach landfall alternative; Alternative F,
10 which is the vessel transit lane alternative; and
11 the no-action alternative, which is G.

12 The placement of cable and maintenance within
13 Lewis Bay, associated with the New Hampshire Avenue
14 landfall site, would lead to potential effects on
15 vessel traffic and to environmental justice
16 populations that rely on subsistence fishing or
17 employment and income from marine businesses. This
18 impact would lessen to moderate under Alternative B
19 the Covell Beach landfall alternative, which would
20 exclude the use of the New Hampshire landfall
21 location.

22 As mentioned on the alternative slide, Slide
23 18, Vineyard Wind is no longer pursuing the New
24 Hampshire Avenue landfall location.

1 Alternative F, the vessel transit lane
2 alternatives, leads to lower direct and indirect
3 impacts for environmental justice due to reduce
4 impacts related to allusions and collisions from the
5 presence of the transit lane. The reduced risk of
6 collision or allisions would lessen the impact on
7 marine businesses and also on the low-income workers
8 employed in these industries.

9 By reducing impacts on these businesses,
10 Alternative F would have a smaller incremental
11 impact an environmental justice population, although
12 those impacts would remain negligible to moderate.

13 The direct and indirect impacts for other uses
14 was determined to be major for scientific research
15 and surveys for the proposed action and all action
16 alternatives. The placement of structures within
17 the wind development area pose a navigational hazard
18 to survey aircraft and vessels and restrict access
19 to survey location. This would impact the
20 statistical design of surveys and cause a loss of
21 information leading to major impact.

22 Analysis of the other resource areas listed
23 here found that there could be direct and indirect
24 impacts that were minor to moderate beneficial from

1 the proposed action and action alternatives.

2 Now, here we will discuss the cumulative
3 impacts of the proposed action we found in the SEI.
4 So this would be the proposed action in addition to
5 ongoing activities, future offshore nonwind
6 activities, and future offshore wind activities, so
7 the cumulative impacts.

8 For most resources, cumulative impacts were
9 minor to moderate with some major short- and
10 long-term impacts. Major cumulative impacts could
11 occur to commercial fisheries and for-hire
12 recreational fishing for the proposed action and all
13 action alternatives.

14 Here the impact risk rating is driven mostly
15 by changes due to fish distribution and an
16 availability associated with climate change, reduced
17 stock levels due to fishing mortality, and permanent
18 impacts due to the presence of structures, such as
19 cable protection measures and foundations from
20 offshore wind activity.

21 Major cumulative impacts on navigation could
22 occur as a result of the presence of structures
23 which increase the risk of collision and allisions
24 under the proposed action and all the alternatives,

1 with the exception of D-2, which is the east-west
2 and one-nautical-mile turbine layout alternative;
3 with -- and F, the vessel transit lane alternative,
4 when paired with D2; and the no-action alternative,
5 which is G.

6 That impact level becomes moderate under D-2
7 with a one-by-one-nautical-mile uniform grid layout;
8 and under F, when paired with D-2, due to the large
9 spacing between structures and the regular layout.

10 Major cumulative impacts on scientific
11 research and surveys, as I mentioned on the previous
12 slide, is included under other uses, could occur as
13 a result of the proposed action and all-action
14 alternatives due to the presence of structures which
15 could hinder surveys within the project area. This
16 is similar to the direct and indirect impacts but
17 greater in magnitude due to the cumulative scenario.

18 In addition, there would be major cumulative
19 impact on military and national security uses as a
20 result of the proposed action and action
21 alternatives other than D-2, which again, is the
22 east-west and one-nautical-mile turbine layout; and
23 Alternative F, the vessel transit lane alternatives
24 with D-2, due to the navigational complexity from

1 structure presence, which could increase the
2 difficulty to conduct search-and-rescue operations.

3 The major impact goes down to moderate for
4 search-and-rescue operations under D-2; or
5 Alternative F paired with D-2, due to the uniform
6 grid of D-2; or the vessel transit lane with a
7 uniform grid, which would be Alternative F with
8 Alternative D-2.

9 There are also some minor beneficial
10 cumulative impacts primarily in recreation and
11 tourism, land use and coastal infrastructure, and
12 demographics, employment and economic.

13 This is a proposed schedule that is on our
14 permanent dashboard. However, that schedule could
15 change based on comments received, for example, if
16 someone identifies a significant issue that we did
17 not consider in the draft or supplemental EIS that
18 requires new analysis.

19 There are also ongoing consultations including
20 the Endangered Species Act, the Marine Mammal
21 Protection Act, the National Historic Preservation
22 Act, and the Magnuson-Stevens Fishery -- Fishery and
23 Conservation and Management Act that need to be
24 completed prior to the signing of the record of the

1 decision.

2 BOEM is working with agencies to incorporate
3 new project changes into the existing consultation.
4 Additional details about ongoing and completed
5 consultations may be found in Appendix D on the
6 Vineyard Wind web page, includes a variety of
7 informative documents including Vineyard Winds'
8 Construction and Operations Plan, copies of the
9 draft EIS, copies of the supplemental EIS, a
10 large-print copy of the supplemental EIS, and a link
11 to the virtual meeting room web page.

12 Within the web page -- the virtual meeting
13 room web page, you will find the aforementioned
14 posters and presentations, along with additional
15 posters and presentations highlighting key topics in
16 resource areas, like our how-to-comment poster.

17 And with that, we want to thank you for your
18 attendance and participation today. We look forward
19 to your comments and to your questions.

20 And with that, I'll hand it back over to
21 Christine.

22 CHRISTINE DAVIS: Thanks, Jenn.

23 Okay. So you'll be able to provide comments a
24 number of ways, as is demonstrated on this slide by

1 using regulations.gov, providing oral testimony
2 during any of our meetings, and also by mailing
3 comments to the Office of Renewable Energy Programs
4 at the address provided on the slides and on the
5 Vineyard Wind virtual meeting page. I'll provide
6 that address later on in this presentation.

7 If you haven't done so already, I'd like to
8 provide comments -- and would like to provide
9 comments, please press Star 1 now and speak to our
10 operator. And I know we've got a number of
11 questions that are coming up in that Q & A box. So
12 as a reminder, we will address those after the
13 public comment period.

14 If, when you're pressing Star 1, again, be
15 patient. I know that we have operators that are
16 trying to get people into the queue as quickly as
17 possible. So thank you for your patience with us.

18 If you'd prefer to submit your comments
19 electronically, visit at <http://www.regulations.gov>
20 and search for the docket BOEM-2020-0005, and next
21 click on "comment now."

22 Comments may also be submitted by mail with
23 the envelope labeled Vineyard Wind Supplement to the
24 draft EIS, addressed to the Program Manager at the

1 Office of Renewable Energy, Bureau of Ocean Energy
2 Management. The address is 45600 Woodland Road,
3 VAM-OREP, or V, as in Victor, A, as in Alpha, M, as
4 in Mary, dash O-R-E, as in Echo, and P, as in Paul,
5 in Sterling, Virginia 20166. Comments must be
6 postmarked no later than July 27th, 2020.

7 BOEM does not consider anonymous comments, so
8 please include your name and address as part of your
9 submittal.

10 All the comments will be made part of the
11 public record and may be publicly posted without --
12 without any changes.

13 You can also submit your comments online at
14 regulations.gov.

15 So please take a few minutes to submit your
16 questions either about the presentation, SEIS, in
17 general, to BOEM through the Q & A box in Zoom. I
18 will respond to those after the public comments.

19 So, with that, I'd like to open it for public
20 comments in just a minute. If you're providing
21 comments, your remarks will be recorded, transcribed
22 and entered into the administrative record.

23 So even though you may not see your name in
24 the chat box, which we'll start putting those there,

1 on the bottom of your screen, please state your name
2 slowly and spell it. That'll help a number of
3 things. It'll help the court reporters, who are
4 listening in, and anyone who is also joining us by
5 phone. So please state and spell your name. If
6 you'd like, you can include any organization that
7 you're affiliated with too, if applicable.

8 All the comments today will be taken into
9 consideration by BOEM to update the final EIS. The
10 comments you make today will be recorded and also
11 publicly posted.

12 Please be mindful of time so that everybody
13 has an opportunity to speak. I'll ask you to wrap
14 things up at the five-minute mark. However, if you
15 need more time, put your name at the end of the
16 queue. This will allow everyone the opportunity to
17 speak at least once, and if time allows, we'll give
18 you another chance.

19 Please note if your comments are lengthy, you
20 can also submit them in writing in the methods I
21 just described, as both written and oral comments
22 are being considered equally.

23 So I'll take repeat speakers but only after
24 everyone who is interested has had a chance to

1 provide comments at least once.

2 After identifying the first couple of
3 speakers, we will know who to speak next. In
4 addition to putting names in the speakers' box, I
5 will call them out for those on the phone.

6 Typically, I like to greet people when we're
7 meeting in person, so I can hear how you pronounce
8 your name, but we don't have that luxury today. So
9 I sincerely apologize for any mispronunciations I
10 make this evening. I realize that everybody likes to
11 hear our names properly pronounced, so I ask you for
12 your patience and understanding.

13 We'll commit to getting all the questions and
14 comments from today and the other meetings and
15 responding to them as appropriate in the final EIS.

16 So with that, I'm going to read off a couple
17 of names to get our first speakers lined up. We've
18 got David H., Joe M., Kai F., Michael F., and Eileen
19 M. Those will be our first speakers. If there's
20 anyone else who would like to make comments, please
21 do press that Star 1, and we will get you into the
22 queue.

23 So with that, I will ask that, David, you will
24 be available to provide your comments and we'll get

1 started. David H.?

2 DAVID HARDY: Okay, can you hear me?

3 CHRISTINE DAVIS: I can hear you just fine.

4 DAVID HARDY: Thank you.

5 Acting Director Cruickshank and other members
6 of the Bureau of Ocean Energy Management, thank you
7 for allowing me to offer this brief statement this
8 evening on the Vineyard Wind supplemental
9 Environmental Impact Statement, the SEIS.

10 My name is David Hardy, H-a-r-d-y, and I'm the
11 President and Chief Operating Officer for Orsted
12 North America Offshore.

13 Orsted is the world's leading developer of
14 offshore wind with 26 operating wind farms globally,
15 comprising -- comprising 6.8 gigawatts of clean
16 and renewable generation.

17 Here in the U.S., we have been awarded over
18 2900 megawatts of offtake rights. The states of
19 Rhode Island, Connecticut, New York, New Jersey,
20 Maryland, and Virginia have all entrusted Orsted to
21 build their first offshore wind projects in the U.S.

22 And as the leaseholder of multiple wind energy
23 areas in the Mid Atlantic and New England regions,
24 we are poised to deliver from 8 to 10 gigawatts of

1 additional capacity and bring the economic,
2 environmental and energy benefits of offshore into
3 these markets.

4 I'd like to start by commending BOEM for its
5 work on the supplemental EIS. It is no small feat
6 to forecast the myriad impacts that the development
7 of a new ocean-based renewable resource will have on
8 the human and natural environment, both positive and
9 negative. But BOEM has largely presented a
10 comprehensive, thoughtful and data driven analysis
11 of the reasonably foreseeable impacts of project
12 development along the Eastern Seaboard. Just as
13 importantly, BOEM has honored its commitment to
14 deliver the SEIS in a timely fashion.

15 It's hard to overemphasize this point. As a
16 nascent industry, market participants are looking to
17 BOEM and other state and federal agencies to create
18 stable, predictable and transparent permitting
19 processes and timelines that are paramount to
20 unlocking the billions of dollars in private sector
21 investment that will be required to stand up this
22 new industry here in the U.S. and meet state energy
23 targets. The release of the SEIS is, therefore, a
24 critical milestone.

1 With the completion of the cumulative impact
2 analysis, and establishment of a methodology that
3 can be broadly replicated across all planned
4 offshore wind projects, we urge Secretary Bernhardt
5 to now lift the Department's hold on the formal
6 environmental review projects in the queue.

7 But the remainder of my time, I'd like to
8 briefly touch on a few substantive points regarding
9 the SEIS. These points will be amplified in public
10 hearing statements by Orsted subject matter experts
11 and in our written comments.

12 First, we strongly support the adoption of
13 Alternative D-2 as the preferred alternative for
14 project layout in the Rhode Island/Massachusetts
15 contiguous lease area.

16 As one of the participating developers to the
17 consensus proposal for a uniform
18 one-nautical-mile-by-one-nautical-mile east-west
19 grid configuration for these specific lease areas,
20 we were heartened to see the solid evidence
21 presented in the SEIS demonstrating the superiority
22 of this approach from a navigational safety
23 perspective while still respecting the ability of
24 commercial fishermen and other navigators to transit

1 in and through our lease area.

2 We encourage BOEM to defer to judgment of the
3 U.S. Coast Guard, which in the context of the
4 recently released final Massachusetts Rhode Island
5 Port Access Route Study, the MARIPARS, determined
6 that the grid layout pattern, and I quote, will
7 result in the functional equivalent of numerous
8 navigational corridors that can safely accommodate
9 both transits through and fishing within the wind --
10 the WEAs, and declined to recommend further formal
11 or informal vessel routing measures. Diversely, we
12 take issue with the SEIS finding that Alternative F
13 contemplating a dedicated four-mile-wide transit
14 corridor could, quote, technically and economically
15 meet the purpose and need.

16 As an example, the Responsible Offshore
17 Development Alliance wrote a proposal for a
18 four-nautical-mile-wide transit lane, the basis for
19 Alternative F, if -- if adopted and extended to
20 other projects would result in the loss of over
21 50 -- 50 wind turbine locations from our current
22 three projects, South Fork, Revolution and Sunrise
23 Wind, that have current existing PPA obligations.
24 This equates to nearly 25% loss in the total wind

1 turbine locations needed to support our state power
2 purchase agreements.

3 In light of this significant constraint on our
4 development -- developable footprint and attendance
5 production loss, we believe the SEIS conclusion of
6 technical and economic feasibility with respect to
7 Alternative F is misplaced.

8 Second, it's hard to reconcile the SEIS
9 qualitative assessment that future offshore wind
10 development will result in only minor net economic
11 benefits to the region with the study's recognition
12 of significant new investment in ports and harbors,
13 manufacturing and other supply chain activities and
14 workforce development.

15 Our company alone is on its way to investing
16 15 billion over the next decade in the U.S. The
17 SEIS should reflect a more favorable rating of
18 offshore wind as a domestic economic development
19 engine consistent with ongoing and planned
20 investments.

21 Third, for many of the cumulative impact
22 parameters considered in the SEIS, BOEM chose not to
23 incorporate widely accepted or legally mandated
24 mitigation strategies. Thus, the bottom-line impact

1 of the 22 gigawatt build-out must be considered a
2 worst case scenario and not a representative --
3 representative as -- representative of
4 as-constructed project impacts. The SEIS should
5 place the impact assessment in proper context.

6 Fourth, since the SEIS acknowledges that
7 ongoing climate change, which contributes to
8 cumulative impact, it's important to reemphasize the
9 positive climate impact that renewable energy
10 projects will provide to terrestrial and marine
11 fauna and local communities.

12 For example, Orsted's ocean wind project is
13 expected to avoid emissions of over 100 million tons
14 of carbon dioxide, almost 200,000 tons of sulfur
15 dioxide, and over 80,000 tons of NOx over the life
16 of the project. Offshore wind thereby results in a
17 net reduction of regional air pollution.

18 In conclusion, we applaud BOEM for an
19 instrumental role in encouraging America's offshore
20 wind energy to continue to advance. This SEIS an
21 important step in this journey. We remain confident
22 that our offshore wind farms can coexist with all
23 other ocean users including the Northeast commercial
24 fishing industry. As noted, we've already taken

1 steps to support that coexistence.

2 At the same time, we stand ready to help the
3 Northeast recover long term from this unprecedented --
4 unprecedented economic crisis by creating thousands
5 of good local jobs and investing hundreds of
6 millions of dollars in local ports to develop
7 homegrown clean energy that will combat climate
8 change and power our communities for decades to
9 come.

10 Thank you.

11 CHRISTINE DAVIS: Thank you, David.

12 Up next, we'll have Joe M., Kai S., Michael
13 S., Michael S. and Eileen M.

14 So, Joe, are you available? And please state
15 and spell your name?

16 JOE MARTENS: Yes, Christine. Can you hear
17 me?

18 CHRISTINE DAVIS: I can hear you just fine.
19 Thank you very much.

20 JOE MARTENS: Great. Thank you.

21 Good evening. My name is Joe Martens, J-o-e
22 M-a-r-t-e-n-s, and I'm the director of the New York
23 Offshore Wind Alliance, or NYOWA, which is a project
24 of the Alliance for Clean Energy New York.

1 I'm also the former commissioner of the New
2 York State Department of Environmental Conservation
3 where I served Governor Cuomo from 2011 to 2015.

4 NYOWA is unique coalition of offshore wind
5 developers, environmental NGOs, labor organization,
6 and a variety of businesses all dedicated to
7 promoting the responsible development of offshore
8 wind in federal waters off of New York State's
9 coastline. Vineyard Wind is a NYOWA member.

10 Let me start by thanking BOEM and its staff
11 for completing and releasing the supplemental EIS in
12 the midst of a national health emergency. This was
13 no small task.

14 It is critical work moving forward on this
15 project. And it's important not only to
16 Massachusetts, as many have testified in the
17 previous hearings, but for states up and down the
18 Eastern Seaboard in the nation. It's critical on
19 many levels in the fight against climate change, in
20 our effort to reduce criteria pollutants, improve
21 public health, address long standing environmental
22 justice issues, and to help restart the economy in
23 the wake of the COVID pandemic.

24 I plan to submit written comments on behalf of

1 NYOWA, but I wanted to emphasize a few points in my
2 oral testimony this evening.

3 First, the supplemental EIS is, by design,
4 focused on the cumulative impacts of the Vineyard
5 Wind Project and other offshore wind projects that
6 are reasonably foreseeable. But a plain reading of
7 the SEIS could lead to the conclusion that if the
8 Vineyard Wind 1 Project is not advanced, other
9 projects in various stages in the pipeline
10 inevitably will. I don't think this will be the
11 case, and I'm going to explain why further in my
12 testimony.

13 Then Vineyard Wind team of Copenhagen
14 Investment Partners and Avangrid Renewables, as
15 developers of the first commercial scale offshore
16 wind proposal to advance since Cape Wind, have gone
17 above and beyond the extensive federal, state and
18 local requirements for offshore wind. They've done
19 extensive due diligence, worked closely with BOEM
20 and state and local regulators, and reached out to a
21 wide variety of stakeholders, including commercial
22 fishermen and environmental NGOs.

23 They've modified the project in response to
24 concerns and objections, and they've collaborated

1 with other Massachusetts leaseholders. Collectively,
2 they have voluntarily agreed to a one-by-one
3 nautical mile spacing to address concerns raised by
4 both commercial fishermen and the Coast Guard.

5 Further, Vineyard Wind has voluntarily entered
6 into an agreement with the National Wildlife Society
7 and RDC and the Conservation Law Foundation to
8 adhere to a host of measures that will help ensure
9 protection of endangered right whales and other
10 marine mammals.

11 The project has significant environmental and
12 public health benefits. It would reduce carbon
13 emissions by almost 1.7 million tons per year would
14 cut NOx emissions by over 1000 tons per year and SO2
15 emissions by 860 tons per year. It has significant
16 economic benefits.

17 The project would generate 2.8 billion in
18 direct private investment and provide some 3600
19 family-sustaining jobs, and it would have a
20 significant ratepayer benefit generating 1.4 billion
21 in savings over the life of the project.

22 And that's just the Vineyard Wind Project and
23 doesn't nearly speak to the magnitude of the
24 benefits for the remaining 22 gigawatts that BOEM

1 analyzed.

2 It's important to remember that BOEM already
3 went through an extensive process, when it
4 established the Massachusetts Wind Energy area, to
5 minimize conflicts and environmental impacts. And
6 then, as noted above, Vineyard Wind also went
7 through an extensive process -- process to develop a
8 project that addressed concerns raised by
9 stakeholders.

10 As this project is the first anticipated large
11 scale wind project in the United States, it is, in
12 many respects, a litmus test for offshore wind
13 development in this country. Where BOEM comes out
14 on this project will send a message to the entire
15 offshore wind industry and will likely determine its
16 fate in the U.S. All eyes are on this project.

17 It's clear that BOEM's decision here will have
18 ramifications well beyond the Massachusetts border.
19 New York, for example, has three offshore wind
20 projects in the pipeline totaling more than 1800
21 megawatts and has a state mandate to achieve 9000
22 megawatts of offshore wind energy generation by
23 2035.

24 If those projects do not advance or are

1 subject to onerous conditions, such as a
2 four-mile-wide transit lane, New York -- New York
3 will not achieve its statutory clean energy
4 standards. It's that simple.

5 So I urge BOEM to reject the Alternative F.

6 As noted earlier, Vineyard Wind, along with
7 other New England wind energy area leaseholders,
8 have agreed to advance future projects in their
9 lease with a uniform one-by-one nautical mile
10 layout. The U.S. Coast Guard has since determined
11 that this type of standard and uniform grid pattern
12 would maximize safe navigation in the wind energy
13 area.

14 Alternative F is completely unnecessary and
15 would severely constrain clean energy production in
16 the Massachusetts wind energy areas and not
17 meaningfully improve navigation or safety.

18 In short, it threatens the viability of all
19 offshore wind projects in the region and the state's
20 ability to meet their renewable energy goals, and in
21 some cases, like New York's, its mandates. If it is
22 imposed, we would lose -- lose the substantial
23 benefits of these offshore wind projects, including
24 emission reductions, improved human health, billions

1 in economic investment, and thousands of
2 family-sustaining jobs.

3 So I urge BOEM to stick to its public
4 schedule, issue -- issue a final EIS in November,
5 and a record or position approving the project as
6 proposed and modified by the applicant in December.

7 Thanks again to BOEM for all his hard work,
8 and thanks for the opportunity to testify.

9 CHRISTINE DAVIS: Thank you, Joe.

10 Next, we'll have Kyle -- Kai, and then after
11 that, Michael and Eileen.

12 So Kai, are you with us?

13 KAI SALEM: Yes. This is Kai Salem, that's
14 K-a-i S-a-l-e-m, and I'm a policy advocate for
15 Green Energy Consumers Alliance.

16 So thank you to the Bureau of Ocean Energy
17 Management for the opportunity to comment this
18 evening.

19 My name is Kai Salem. Green Energy Consumers
20 Alliance is a nonprofit founded in 1982. Our mission
21 is to harness our power as energy consumers to speed
22 the transition to a low-carbon future.

23 As such, we manage programs to connect our
24 members with green energy choices, whether that

1 means we're helping them get electric vehicles or
2 access renewable energy. Further, we advocate for
3 practical but ambitious policy solutions to reducing
4 greenhouse gas emissions in Massachusetts and Rhode
5 Island.

6 Our over 10,000 members, well over 10,000
7 members, across Rhode Island and Massachusetts, who
8 are involved in our energy program, demonstrate that
9 New Englanders want clean energy, and they want
10 clean energy that is affordable and reliable in
11 building a local green energy economy in our states.

12 Most of our members, like the staff and board
13 here, at Green Energy Consumers Alliance are deeply
14 concerned about the climate crisis and about our
15 state's own role in addressing the climate crisis.
16 We are working together to urgently develop an
17 energy system that is affordable, reliable, and most
18 importantly, free of fossil fuels which create local
19 and global air pollution problem.

20 As such, Green Energy Consumers supports the
21 Vineyard Wind Project. We believe this SEIS
22 demonstrates that offshore wind can be constructed
23 at minimal environmental impact and that this
24 project will lead to affordable and reliable clean

1 energy for New England ratepayers. Moreover, this
2 project is an essential step in the larger grid
3 decarbonization that needs to happen in New England
4 over the coming decades.

5 The development of offshore wind in the region
6 is essential for the achievement of our clean energy
7 goals. We strongly support this project. It's the
8 first large-scale project in the region.

9 Most states in the region, including Rhode
10 Island, which doesn't have binding targets, and
11 Massachusetts, are behind on the targets including
12 the 2030 and 2050 climate targets. The task of
13 meeting these targets is daunting. It is even more
14 daunting or perhaps impossible without offshore
15 wind.

16 New England, according to a recent analysis by
17 Brattle Group for the Massachusetts State
18 Government, needs 43 gigawatts, or significantly
19 more than one gigawatt per year over the next 30
20 years, to decarbonize our energy system. That
21 daunting task grows even more daunting the longer we
22 wait. And it's time to move on this project.

23 The recent Massachusetts power purchase
24 agreements create savings to ratepayers as offshore

1 wind prices have come in lower than the other
2 resources in the wholesale market. That means that
3 offshore wind can contribute not just to the clean
4 aspect of our energy market in our energy system
5 goals, but also the affordability aspect.

6 Significant alterations to the project, such
7 as the incorporation of extra-wide vessel transit
8 lanes, or reducing the overall size of the project
9 would reduce the region's ability to meet its
10 decarbonization targets. It would also affect the
11 viability and cost efficiency of the project.

12 However, proposed Alternative D-1, the
13 one-nautical-mile-wind-turbine spacing, does allow
14 for both project viability and least amount of
15 obstruction to the commercial fishing industry. As
16 this project will be a boon to the local economy, we
17 certainly support minimizing the amount of
18 obstruction to the commercial fishing industry.

19 The development of these large-scale projects
20 fosters economic activity and job creation.
21 Massachusetts and Rhode Island and other states
22 throughout New England have repeatedly committed to
23 the development of the clean energy economy as the
24 future of these states. And moving ahead with this

1 project will allow the economic benefits to result
2 from the clean energy industry that we want to see.

3 So thank you, again, for the opportunity to
4 comment. We see offshore wind broadly as essential
5 to the future of our region and our members. And
6 our staff and board here at Green Energy Consumers
7 strongly support this project.

8 Thank you again for the opportunity to
9 comment.

10 CHRISTINE DAVIS: Thank you, Kai.

11 Next, we have Michael S. and then Eileen.
12 After that, we'll have Fred H., Bradley L., and
13 Janice K. So you folks are new names to the queue.
14 So again, after Eileen will be Fred, Bradley and
15 Janice.

16 And with that, I'll turn it to Michael.

17 Michael, are you with us? Michael, I don't
18 know if --

19 OPERATOR: Michael retracted his question in
20 the queue.

21 CHRISTINE DAVIS: Okay. All right.

22 Can we move forward to Eileen, please?

23 EILEEN MATHIEU: Okay, can you hear me?

24 CHRISTINE DAVIS: I can hear just fine,

1 Eileen. Thank you.

2 EILEEN MATHIEU: Okay, good. Thank you.

3 So my name is Eileen Haley Mathieu, 44
4 Longview Drive, Marblehead, Mass. I'm the chair of
5 Clean Energy and Public Policy Group of a
6 Sustainable Marblehead. I'm also a member of
7 Massachusetts Climate Action Network, Mass Audubon,
8 and I'm an avid birder and a sailor.

9 But my reasons for being in favor of Vineyard
10 Wind are three, and I'm going to go back in more
11 detail on number one. But start with number one, we
12 need more renewable energy in Massachusetts and for
13 Massachusetts.

14 Number two, the Vineyard Wind project has been
15 very thoroughly vetted. It's supported by major
16 environmental groups such as Mass Audubon,
17 Conservation Law Foundation, and Natural Resources
18 Defense Council, which are just topnotch groups. And
19 as long as I've been involved in this for 40 or 50
20 years, they're groups I look up to.

21 So secondly, there's been very careful
22 evaluation of the current marine environment in the
23 area preconstruction. And Vineyard Wind has
24 committed to evaluation and assessments during

1 construction, and after installation of the wind
2 turbines impacts, will be closely monitored. So I
3 think that there's a very scientific, careful,
4 thoughtful approach that should minimize any
5 negative effects on us.

6 The third issue is that with climate change
7 bearing down on us rapidly, and New England expected
8 to see higher and more rapid temperature rises -- in
9 fact, in The Globe yesterday, they were talking
10 about how Connecticut has already achieved two
11 degrees centigrade higher temperatures than the
12 1890s.

13 And then we have more extreme precipitation
14 events predicted for New England; stronger
15 hurricanes, of course, coming at the coast, and we
16 get those intermittently; certainly more extreme
17 wind events; many thunderstorms now result in power
18 outages than they did, and that didn't used to
19 happen, but the winds will be clocked at, you know,
20 80 or 100 miles an hour.

21 So obtaining electricity from a carbon-free
22 source such as wind power, which reduces carbon
23 emissions, and, therefore, hopefully will help us
24 get a feeling of emissions and then begin to reduce

1 how much is in the atmosphere, is terribly
2 important.

3 So regarding the need for renewable energy in
4 Massachusetts, I'm wearing my Sustainable Marblehead
5 hat and my MCAN, Mass Climate Action Network, hat.

6 So in Marblehead, our Municipal Light
7 Department, which supplies our electricity, is eager
8 to be able to purchase reasonably priced electricity
9 from renewable sources. And we have constant
10 discussions with them about that.

11 However, local resources are very constrained
12 so that right now we only have 12% renewable energy
13 in our portfolio and then 26% nuclear. We purchase
14 our power through PSA and PPAs through MMWEC, which
15 is the Mass Municipal Wholesale Electric
16 Corporation. MMWEC needs wind options to provide
17 its 22 Municipal light plant members? And currently
18 it has none.

19 You know, we have Berkshire Wind. We jointly,
20 with some other munis, own eight turbines in Western
21 Mass. But clearly, there's no future wind on the
22 horizon unless Vineyard Wind gets approved.

23 And suddenly, there's a real trend happening
24 in Massachusetts and in Marblehead. So starting

1 with Marblehead, Sustainable Marblehead took the
2 lead and got the town to pass a warrant article at
3 our town meeting in 2018 committing the town to 100%
4 carbon-free energy. And that was in transportation,
5 building use and our electric grid.

6 Many other towns in the Boston area, including
7 Natick, Arlington, Melrose, Concord, Wellesley,
8 Belmont, are all actively pursuing similar
9 zero-carbon emission goals by 2040. This goal is
10 more aggressive than Governor Baker's 2050 goal for
11 Massachusetts. So there's a real groundswell of
12 communities trying to get this done.

13 To reach these goals, all these communities
14 will need more renewable energy sources in their
15 portfolios. So we need more sources of renewable
16 energy. And most of the communities in eastern Mass
17 are too densely populated to have the land area for
18 land-based wind or for solar at utility scale; thus
19 the offshore wind project of Vineyard Wind holds a
20 tremendously important potential for Massachusetts.

21 So, in short, I feel that approving this
22 project without delay is very important. And since
23 it is -- this is not new technology and it's been
24 thoroughly vetted, I urge your approval.

1 Thank you.

2 CHRISTINE DAVIS: Thank you, Eileen.

3 Next we have Fred, Bradley, Janice, then John
4 B. and Mark K.

5 So with that, I'll turn it to, Fred.

6 FRED HOPPS: Yes. Hello. My name is Fred
7 Hopps, F-r-e-d H-o-p-p-s. And I live in the
8 coastal city of Beverly, Mass. I'm the founder of
9 the Clean Energy Advisory Committee, duly
10 appointed by the mayor and council, and a local
11 advocate with North Shore 350.

12 Beverly is the home to the original and still
13 functional commercial-sized 100 kW Photovoltaic
14 Research and Development Project commissioned in
15 1981 with funds from the Carter administration.

16 At the time the experimental PV site was
17 constructed, I was living in Copenhagen, Denmark,
18 and I watched the Danes for four years responding to
19 the oil embargo and energy crisis of the 70s.

20 And up until about 10 years ago, Denmark was
21 the number one world leader in development
22 deployment for wind power. Still today, the Danes
23 are leading the way with technology expertise, and
24 indeed, Orsted and Copenhagen Investment Partners

1 are major players in the proposed build-out.

2 (Speaker speaks in foreign language.)

3 A thousand thanks to the Danes who practically
4 single-handedly kept the wind power industry alive.
5 Compare that to the progress to the Carter
6 administration initiative for energy independence
7 that was dismantled when he left office in 1981.

8 The old solar field in Beverly is a testimony
9 to both the road not taken and yet a glimmer of hope
10 to the burgeoning solar expansion today.

11 Committing to a clean energy future is now
12 viable and essential. In 2011, Scotland set a goal
13 for 100% clean energy, and they will reach that
14 target by November. The Scots found a way to supply
15 all their power without exploiting or destroying the
16 surrounding natural world, and much like the
17 Vineyard Wind Project where the utmost care is being
18 provided with consideration for fishing industry,
19 marine life and birds.

20 Mass Audubon will be monitoring bird migration
21 behavior. National Wildlife Federation stands as
22 the champions for marine life and wholeheartedly
23 supports this project. The Coast Guard has approved
24 adequate spacing of turbines and conclude that

1 corridors provided will -- will create proper
2 navigational opportunity.

3 Please reject Option 4 and adopt Option D in
4 that regard.

5 So if we are responsible as a society, we're
6 going to alleviate the devastating long-term effects
7 of climate crisis, offshore wind is the easiest and
8 lowest energy delivered cost. Let's not forget the
9 tens of thousands of jobs that the wind power
10 industry could generate long term.

11 I would like to say that Beverly Mass is
12 committing to 100% renewable as well. And our
13 targets are actually 2025 for electricity and 2030
14 for transportation and heat.

15 I've been involved with the old solar fields
16 in Beverly since 2004, and there's been steady
17 progress in the solar industry in the last 16 years.

18 It is an economic and environmental tragedy that
19 the solar industry could have been and should have
20 been developed quicker.

21 Let us not delay this current renaissance for
22 clean energy infrastructure. Let's repair that road
23 not taken 40 years ago. Let wind power help create a
24 new leadership role for the United States. It's not

1 too late. Indeed, the time has come. Indeed, the
2 time is now to unleash the power of wind for
3 energizing the Clean Energy Future of now.

4 I'd also like to suggest that we are creating
5 a geopolitical stability as we develop local clean
6 energy. I urge BOEM to approve the Vineyard Wind
7 Project.

8 And thank you for your listening time.

9 CHRISTINE DAVIS: Thank you, Fred.

10 All right, next we have Bradley L., then
11 Janice, John, Mark.

12 So, Bradley?

13 BRADLEY LIMA: Can you hear me?

14 CHRISTINE DAVIS: I can hear you just fine.

15 Thank you.

16 BRADLEY LIMA: Great.

17 First name Brad, B-r-a-d, last name Lima,
18 L-i-m-a. Recently retired from Massachusetts
19 Maritime Academy as the Chief Academic Officer.
20 I've been involved with higher education for nearly
21 40 years, and I'm also a deep sea mariner.

22 I'd like to first go on record in supporting
23 the one-mile distancing between towers.

24 And there was one statement in the Coast Guard

1 report that stood out to me: Anything that can be
2 done to reduce traffic scenarios is a prudent
3 decision. So I'm very supportive of that.

4 I would like to read a written statement that
5 I have already submitted to the program manager.

6 Most of my 50-year career had been intricately
7 linked to the field of power generation. As we
8 address the challenges associated with the
9 development of offshore wind, we should also look
10 back into the history of power generation and
11 determine if there are lessons learned from the
12 past.

13 In the 1940s and '50s, power generation in the
14 west was primarily focused on oil and coal, which
15 were built with 40-year-life expectancies. Coal and
16 oil were abundant, low in cost, and yielded high co2
17 emissions along with high levels of sulfur dioxide.

18 In the 1960s and '70s, focus became on nuclear
19 power generation. These plants were built with a
20 40-year-life expectancy. Government, understanding
21 there were risks associated with nuclear power,
22 responded with the creation of the Nuclear
23 Regulatory Commission for oversight of this
24 industry.

1 As the U.S. entered the 1980s and 1990s, there
2 was a change of thought towards building plants for
3 15 to 20-year-life expectancy, with the
4 understanding that higher overall plant efficiencies
5 must be attained. The concept of combined cycle
6 power generation was adopted were plant efficiencies
7 could achieve 55% or even higher while using natural
8 gas as a fuel source.

9 As we enter a new century, the power
10 generation industry must now take into consideration
11 of impact items such as climate change, carbon
12 dioxide emissions, capacity of fossil fuels while
13 experiencing an increase in demand for electricity.
14 The direction taken on power generation supports
15 concepts which was adopted with wind power.

16 It's quite evident, based on the number of
17 companies which have won leases for the Atlantic
18 Coast sites, that offshore wind is where power
19 generation wants to be.

20 Globally today, there are 600 gigawatts of
21 wind power with approximately 23 gigawatts of wind
22 power coming from offshore. Offshore wind is no
23 longer a new industry. Offshore wind has been
24 around for 20 years predominantly in Northern

1 Europe.

2 Many of the concerns addressed in the BOEM
3 report can be answered by communicating with those
4 who have met the challenges associated with offshore
5 wind.

6 As I reviewed the BOEM report, I took notice
7 of the study on avian fatality. And the model that
8 was created indicated one fatality every 6.25 years.

9 So it's kind of nice to know that a turbine is not
10 a bird Cuisinart.

11 In reading the BOEM white paper, there was one
12 statement which was continually used, and that
13 statement is, to the degree wind energy development
14 offsets the use of fossil fuel used to generate
15 power, it will reduce carbon emissions and further
16 effects to reduce global warming.

17 Calculated risks are necessary when adopting a
18 new concept for the first time. Global warming is a
19 subject that must be addressed now, and corrective
20 measures -- measures must be adopted so future
21 generations are not burdened by the lack of
22 decisiveness by regulatory authorities.

23 As a country who takes great pride in wanting
24 to be a global leader --

1 CHRISTINE DAVIS: Did we lose Brad or -- I
2 don't know if the operator can help me out, but
3 I'm not hearing Brad.

4 OPERATOR: We've lost his audio for some
5 reason.

6 CHRISTINE DAVIS: Okay.

7 OPERATOR: Give it -- maybe it will come back
8 in just a moment. But, yeah, he's not talking
9 though.

10 CHRISTINE DAVIS: Okay.

11 OPERATOR: So his line may have dropped.

12 CHRISTINE DAVIS: Okay. Well, why don't we
13 do this: If he comes back on, let's put him after
14 Janice. But let's keep moving forward with
15 Janice, and we'll -- we'll bring Brad back, if he
16 comes back on. Does that sound --

17 OPERATOR: Janice is no longer -- Janice is
18 no longer in the queue either. She must have
19 retracted her question.

20 CHRISTINE DAVIS: Okay, how about John?

21 OPERATOR: John is -- well, we've got Mark
22 and then John.

23 CHRISTINE DAVIS: All right. Let's go for
24 Mark.

1 OPERATOR: Okay, here's Mark.

2 CHRISTINE DAVIS: Thank you.

3 MARK KRESOWIK: Thank you very much. Can you
4 hear me?

5 CHRISTINE DAVIS: Yes, I can hear you just
6 fine. Thank you, Mark.

7 MARK KRESOWIK: All right. My name is Mark,
8 M-a-r-k, Kresowik, K-r-e-s-o-w-i-k. I'm a Deputy
9 Regional Director for the Sierra Club.

10 Sierra Club is a national nonprofit
11 organization founded in 1892 to explore, enjoy and
12 protect the wild places of the earth; to practice
13 and promote the responsible use of the earth's
14 ecosystem and resources; to educate and enlist
15 humanity in the protection and restoration of the
16 quality of the natural and human environments and to
17 use all lawful means to carry out these objectives.

18 In service of that mission, Sierra Club has
19 committed ourselves to a transition to clean energy
20 that is equitable and affordable for all people. On
21 behalf of our more than 3.8 million members and
22 supporters in the United States, thank you for fully
23 analyzing the environmental and economic impacts of
24 the Vineyard Wind Project and the nearly 22,000

1 megawatts of offshore wind projects along the entire
2 East Coast.

3 This comprehensive and detailed analysis that
4 you all have conducted shows that responsibly
5 developing the offshore wind industry will create
6 tens of thousands of quality jobs, pump billions and
7 economic growth into coastal communities, protect
8 wildlife, lower pollution, and safeguard navigation.

9 The Vineyard Wind Projects' developers have
10 already made landmark commitments to protect the
11 critically endangered North Atlantic Right Whale,
12 negotiate project labor agreements, and create a
13 one-nautical-mile-wide transition lane between their
14 turbines.

15 The Coast Guard has recommended that layout as
16 the best way to ensure everyone can use the oceans
17 safely and prosperously. And this draft
18 Environmental Impact Analysis verifies that such a
19 layout is the most fair, responsible and protective
20 of all impacted constituencies.

21 The Bureau and the Coast Guard have
22 appropriately taken significant efforts to consider
23 the perspectives of all stakeholders, especially the
24 parts of the fishing industry that have been most

1 vocal about their concerns. We thank you for your
2 due diligence and your efforts.

3 Both the robust Coast Guard study and this
4 incredibly detailed analysis show that establishing
5 wider transit lanes would actually make navigation
6 more difficult for most ocean users, limit the full
7 potential of the offshore wind lease area, and
8 reduce tremendous economic and environmental
9 benefits brought by this new offshore wind industry
10 for families, workers and businesses along the
11 coast.

12 We urge you to finalize this environmental
13 impact analysis. Approve the Vineyard Wind Project,
14 as agreed to by the developers, by the end of this
15 year. Launch a new offshore wind industry that can
16 create jobs, protect our climate, and launch a
17 thriving clean energy economy from Maine all the way
18 down to Georgia.

19 Thank you very much for your diligence, your
20 time, your effort to listen to our comments, to
21 conduct this analysis to do what's right for all
22 stakeholders and users of the ocean, the coast and
23 the entire country.

24 Thank you very much.

1 CHRISTINE DAVIS: Thank you, Mark.

2 We're going to go next to John. And I'm
3 thinking is John Rogers, but let's see. And let's
4 get John queued up by chance?

5 JOHN ROGERS: Yeah, this is John. Can you
6 hear me?

7 CHRISTINE DAVIS: I can hear you just fine.
8 If you can state and spell your name. Thank you.

9 JOHN ROGERS: Great. Thank you.
10 My name is John Rogers; J-o-h-n, R-o-g-e-r-s.
11 And I'm a senior energy analyst with the Union of
12 Concerned Scientists.

13 UCS puts rigorous independent science to work
14 to solve our planet's most pressing problems, and
15 that includes our work in the power sector. And
16 that's why we appreciate BOEM's efforts and
17 thoroughness and the opportunity to comment tonight
18 on the supplemental GIS.

19 What brings me here is not a single project
20 but the chance to comment based on the broad scope
21 of the SEIS and all the projects that it
22 encompasses.

23 As I'm sure is clear, offshore wind offers
24 exciting prospects. It can offer large amounts of

1 pollution-free generation, which many states,
2 including along the Eastern Seaboard, are demanding.
3 That matters for reducing air pollution from
4 colossal fuel power plants; that affects, in
5 particular, the often marginalized communities that
6 abut those plants; and it matters for reducing
7 climate changes, harmful impacts, including on the
8 marine environment and all that depends on it.

9 Offshore wind generates at times that make it
10 an excellent compliment to other renewable energy
11 resources, including, because of its strength, in
12 winter. Offshore wind can offer savings to
13 electricity customers thanks to the strong cost
14 reductions that the industry has achieved which are
15 themselves thanks in part to the strong state
16 policies that have prompted larger projects and
17 offered economies of scale.

18 And offshore wind can offer economic
19 development and jobs with the creation of an
20 entirely new industry with all the projects, study,
21 development, installation, maintenance,
22 manufacturing, finance and more that the industry
23 entails. That job creation potential seems
24 particularly important with the high unemployment

1 and an economy in need of rebuilding.

2 All of those benefits depend on having a
3 smooth science-based regulatory process for good
4 decision-making. So it is really encouraging to have
5 the BOEM SEIS out for comment, and we thank you for
6 that. And it's especially encouraging to see that
7 the SEIS found relatively low impacts, even with its
8 consideration of a substantial collection of
9 offshore wind projects, far beyond the one project
10 that had been the focus of this polling process.

11 One area of consideration that you've heard
12 about from others deserves particular attention and
13 comment, the spacing and layout of the turbines.

14 When the five other -- when the five New
15 England leaseholders proposed to adopt a uniform
16 one-by-one turbine layout and the same
17 east-west-north-south orientation, that was a solid
18 response to many of the concerns expressed about the
19 prior plans and navigation to the projects.

20 And as you've heard in this recent MARIPARS
21 study, the U.S. Coast Guard confirmed the
22 appropriateness of that spacing. But spacing the
23 turbines so much farther apart also appreciably
24 reduces the number of turbines and generation

1 possible in the lease areas. Vineyard Wind itself
2 has estimated a 13,000-megawatt reduction for the
3 New England lease areas with a 30% reduction in
4 potential clean energy.

5 So we add our voice to the strong opposition
6 to the SEIS Alternative F, which would require
7 additional transit lanes beyond the hundreds
8 provided by the one-by-one fixed orientation layout.
9 Alternative F would lead to a lot more loss
10 potential, fewer megawatts. And less generation
11 would mean more air pollution impacts on the fossil
12 fuel generation that those turbines could have
13 displaced; less savings on electricity bills; fewer
14 opportunities for economic development and jobs; and
15 a heightened impact on marine wildlife, given the
16 worsening impacts of climate change.

17 None of those should be acceptable outcomes,
18 and we ask you to reject Alternative F in
19 particular.

20 In my almost three decades of working in the
21 power sector, I have never seen an opportunity like
22 we're seeing now with offshore wind. The lengthy
23 process to date, and now a strongly supportive SEIS,
24 provide a strong basis for moving forward with

1 appropriate attention to mitigation.

2 What comes to this process isn't about one
3 project, as you've heard, it's about every project
4 in the queue behind it and about fidelity to science
5 and facts and good decision-making.

6 After years of consideration of offshore wind
7 in these parts, it's time for us to act and to begin
8 to realize the tremendous benefits of offshore wind.

9 So thank you for all you have done and for
10 what is yet to come.

11 CHRISTINE DAVIS: Thank you, John.

12 Okay. Next, we're gonna go to Moncrieff, then
13 Lee and then Wendy.

14 So can we have Moncrieff, by chance?

15 MONCRIEFF COCHRAN: Can you hear me?

16 CHRISTINE DAVIS: I can you just fine. Thank
17 you so much.

18 MONCRIEFF COCHRAN: That's great.

19 My name is Moncrieff Cochran, M-o-n-c-r-i-e-f,
20 as in Frank, F, as in Frank, C-o-c-h-r-a-n. I'm
21 testifying in my roles as Board Member of the
22 Friends of Pleasant Bay on Cape Cod, and Executive
23 Director of the Cape Cod Climate Change
24 Collaborative.

1 Eighteen months ago, the governing board of
2 the Climate Change Collaborative endorsed the
3 Vineyard Wind offshore wind energy project. We did
4 so because we recognized the threat that global
5 warming poses to commercial fishing, a backbone
6 industry on the Cape and islands and to the overall
7 physical and economic viability of Cape Cod.

8 The ocean off New England is warming at an
9 alarming rate, much faster even than scientists
10 thought four years ago. This warming water means
11 that cold-water fish species will leave the area in
12 search of cooler ocean. Warmer water also
13 strengthens summer storms and winter gales that are
14 a real danger to -- both to our fishing fleets and
15 to our fragile landmass.

16 The draft Supplemental Environmental Impact
17 Statement recently published by the Federal Bureau
18 of Ocean Energy Management reinforces our conviction
19 that the Vineyard Wind Project will be a huge net
20 positive not only for the Cape and islands but for
21 the entire northeastern region of the United States.

22 Electrification must be a primary strategy for
23 mitigating the release of carbon dioxide into the
24 atmosphere, and the Vineyard Wind Project will be in

1 a position to provide the clean energy, the clean
2 electricity needed to revamp our heating, cooling
3 and transportation systems.

4 It's important to note that the untapped
5 offshore wind resource along the U.S. Eastern
6 Seaboard is one of the most powerful in the world.
7 It is within reach or dense -- in densely populated
8 areas along the East Coast where energy demands are
9 high and new resource options are few. Estimates
10 indicate that the offshore wind industry could
11 provide as many as 83,000 jobs and deliver \$25
12 billion in annual economic input in this region by
13 2030.

14 I commend BOEM and the other federal and state
15 agencies and entities that have worked hard to bring
16 together a full range of stakeholders. I'm
17 particularly impressed by the way that the states of
18 Massachusetts and Rhode Island have surveyed,
19 monitored and sought to minimize impacts to natural
20 resources, fish, birds and other sea life, as
21 documented in the draft SEIS, including robust
22 agreements to protect endangered species like the
23 North Atlantic Right Whale.

24 Within the draft SEIS, I have several specific

1 recommendations.

2 I support the east-west
3 one-nautical-mile-wind-turbine spacing without
4 transit lanes -- that's Alternative D-2 -- which
5 will give fishermen and other ocean vessel captains
6 plenty of room to maneuver as they pass through the
7 wind turbine -- the wind farm, sorry.

8 This alternative would require that the wind
9 turbine generators be oriented in the east-west
10 direction and have a minimum spacing of one nautical
11 mile between them. That's allowing for continued
12 coexistence between a new industry and existing
13 marine users.

14 I also support the Covell Beach landfall
15 alternative, Alternative B, which will limit the
16 cable landfall to only that location. This location
17 would reduce impacts on environmental and
18 socioeconomic resources, and especially on Lewis
19 Bay.

20 I'm delighted to see the SEIS provides the
21 information needed to proceed with the development
22 of the offshore wind industry more broadly along the
23 East Coast of the United States, and more
24 specifically, the Vineyard Wind Project.

1 This much needed clean renewable energy
2 resource must be -- must proceed with all deliberate
3 speed and no delays. The very future of the planet
4 depends on the responsible development of offshore
5 wind power in the United States and abroad. The
6 Bureau of Ocean Energy Management Supplemental EIS
7 points the way to this vital resource -- this vital
8 source of clean energy.

9 Thank you very much.

10 CHRISTINE DAVIS: Thank you, Moncrieff.

11 Looking ahead, we've got about five more
12 speakers left, and I'll read the names. And then as
13 you can see on the screen, if you haven't already
14 done so, and you'd like to get into the queue,
15 please press Star 1 now and wait to speak to the
16 operator. Just want to make sure that folks know we
17 still have an opportunity to be added to the queue.

18 But what I have left are Lee, Wendy, William
19 Janice and Susan.

20 So with that, I will turn it to Lee.

21 LEE BURNS: Good afternoon. My name is
22 Dr. Lee Burns, and I currently reside in Sandwich,
23 Massachusetts.

24 Prior to retiring, I did research in tumor

1 biology at the NIH. But then in 2009, I returned to
2 Massachusetts and became involved with environmental
3 issues and climate emergency.

4 I became a member of the Natural Resources
5 Coastal Beach Committee, chaired the Energy
6 Committee, and a town meeting member in Plymouth.
7 Next, I volunteered for the whale and dolphin
8 conservation and learned about some facts and the
9 endangered Right Whales and what this organization
10 and the Center for Coastal Studies in Providence
11 were doing to support them.

12 Clearly, safe marine -- safety of marine
13 mammals and our oceans' wellbeings should be
14 balanced with the needs for producing green energy.
15 These are just a couple of the many concerns that
16 stakeholders have brought to the table and have then
17 adequately addressed.

18 Currently I'm a member of 350 Cape Cod and
19 have introduced petitions -- well, 350 has
20 introduced petitions throughout towns on the Cape to
21 recognize the climate emergency and to support net
22 zero.

23 Also a member of the State Legislative team
24 for 350 Mass to work for the pass -- passage of net

1 zero bills in the House while supporting EJ
2 inclusion. I feel that the BOEM, along with other
3 governmental agencies, have worked to mediate
4 dangers to our ocean while fostering support to the
5 important fisheries in the area.

6 The one-by-one NM separation distance between
7 the wind turbines in the north-south east-west
8 directions appears wide enough for transit and is
9 actually a width larger than wind turbines, and --
10 that is standard in the North Sea.

11 Although offshore wind turbines are more
12 expensive to build and install, their payback time
13 is less than a year and -- to provide critical green
14 energy for consumers.

15 In addition, by contrast, wind turbines on
16 land are getting substantial pushback. And in one
17 court, a wind turbine has to be dismantled while
18 they're being shut down in other towns. Thus, our
19 need for electricity will be much easier to satisfy
20 with offshore wind turbines like Vineyard Wind.

21 Thus, I feel that the climate emergency is
22 real and a dire threat to our wellbeing and Vineyard
23 Wind desperately needed. And its placement with the
24 one-by-one nautical mile separation for individual

1 turbines has been very well planned and needs to be
2 approved.

3 Thank you.

4 CHRISTINE DAVIS: Thank you, Dr. Burns. And
5 though your name seems to be pretty
6 straightforward, would you mind stating --
7 spelling it for the record, please.

8 LEE BURNS: Yes, Lee, L-e-e, Burns,
9 B-u-r-n-s.

10 CHRISTINE DAVIS: Thank you so much.

11 Okay. Well, with that, we'll turn it to
12 Wendy, and then William, Janice, Susan, and then
13 Janet.

14 So go ahead, Wendy.

15 WENDY NORTHCROSS: Thank you. I'm Wendy
16 Northcross; W-e-n-d-y N-o-r-t-h-c-r-o-s-s, as in
17 Sally. I'm the CEO of the Cape Cod Chamber of
18 Commerce, who is also a member of the Chambers for
19 Innovation and Clean Energy, which is a nationwide
20 network of Chambers of Commerce that help chambers
21 and member companies navigate and prosper in the
22 clean energy space. And we are proud to be
23 affiliated with one of the largest local chamber
24 organizations in the country.

1 And on behalf of our 1236-member businesses
2 and organizations, we thank you for the opportunity
3 to comment on the SEIS for Vineyard Wind 1.

4 We acknowledge that the creation of a major
5 new industry is a significant undertaking and needs
6 to be approached with careful consideration. We feel
7 the federal government has done its due diligence
8 and urge execution of the final permit for Vineyard
9 Wind 1. We agree that is important that the first
10 commercial offshore wind projects are done right,
11 and it's imperative to evaluate the cumulative
12 impacts to existing maritime uses, as well as the
13 environment, and to establish best practices that
14 minimize those.

15 We're especially sensitive to the concerns of
16 the commercial fishing industry as an important
17 piece of our past, present and future economy, and
18 one that is impacted the greatest by this new
19 emerging industry.

20 Vineyard Winds has gone through many
21 iterations in an effort to craft a facility that's
22 economically feasible, while at the same time taking
23 its impacts into account.

24 Vineyard Wind has been a collaborative,

1 communicative and engaged partner with many
2 stakeholder groups, and has shown genuine interest
3 in the region's environmental and economic health.

4 While it's clear that there will be impacts to
5 existing uses, and that the emergence of this new
6 industry will require changes in both practice and
7 habit, we feel that the adjustments made to this
8 permitting process and the mitigations put in place
9 will minimize those impacts.

10 Developers have made a commitment to
11 coordinate a predictable layout that answers marine
12 concerns and comes at the cost of substantial
13 reductions in clean energy potential among the lease
14 areas. We support the proposal, and further
15 dilution beyond this proposal could jeopardize the
16 project's viability, increase the cost to
17 ratepayers, as well as increased environmental
18 impact, rendering the existing lease areas
19 insufficient to meet the region's clean energy
20 mandates. And if this -- all this would occur if
21 additional transit lanes are added to the plan,
22 which the U.S. Coast Guard has asserted will not
23 provide meaningful increases in ease of transits and
24 actually could create increased conflict.

1 In terms of economic development, Vineyard
2 Wind represents a major opportunity to bring \$1.8
3 billion in direct economic benefits to
4 Massachusetts, including 3600 new jobs. The project
5 has created a \$15 million fund to help build a
6 sustainable offshore wind industry in Massachusetts
7 that would bolster development of the supply chain,
8 businesses and infrastructure. This type of economic
9 development will play out up and down the East Coast
10 of the United States if the nation ushers in this
11 new renewable energy industry.

12 We urge BOEM to arrive at a final decision on
13 the federal permits this year. This is critical not
14 only for the viability of Vineyard Wind but for the
15 entire future of the U.S. offshore wind industry,
16 including shipbuilders, suppliers and other maritime
17 interests. Considering the nation's abrupt economic
18 downturn this year due to COVID-19 impacts, this
19 will help spur immediate economic growth in our
20 nation's economy.

21 Thank you again for the opportunity to comment
22 on this project. Thank you.

23 CHRISTINE DAVIS: Thank you, Wendy.

24 All right. Let's move forward with William,

1 then Janice, Susan and Janet.

2 And, again, if you are not in the queue yet,
3 if you haven't heard your name, please press Star 1
4 and wait to speak to the operator to get added to
5 that.

6 So with that, I'll turn to William.

7 WILLIAM JOHNSON: Hello, my name is William
8 Johnson, W-i-l-l-i-a-m J-o-h-n-s-o-n.

9 As a Danvers, Massachusetts, resident and a
10 current student at Amherst College, I'd like to
11 voice my full support for the Vineyard Wind 1
12 offshore wind project.

13 The project will be crucial for fulfilling
14 Massachusetts climate goals and will provide
15 thousands of good paying jobs.

16 I'm especially interested in voicing my
17 support because Vineyard Wind has made outreach to
18 organized labor a priority, pledging time on project
19 labor agreements ensuring both fair compensation and
20 adherence to the highest construction standards.

21 Consciously, Vineyard Wind will help launch a
22 dynamic industry with positive effects extending
23 across the region.

24 As a college student, I'm particularly excited

1 for the long term benefits regarding both climate
2 and employment that this project and similar ones
3 will provide.

4 Thank you for your time.

5 CHRISTINE DAVIS: Thank you.

6 All right, next, Janice and Susan and Janet.

7 So Janice?

8 JANICE KUBIAC: Hello, can you hear me?

9 CHRISTINE DAVIS: I can hear you just fine,
10 Janice. Thank you.

11 JANICE KUBIAC: Oh good. Great.

12 Thank you very much for allowing me to
13 participate in these comments.

14 I'm a member of Citizens' Climate Lobby. We
15 advocate for carbon fee and dividends, the Federal
16 Bill H.R. 763. And our goal is to incentivize
17 renewable energy.

18 I'm a full supporter of Vineyard Wind and have
19 appreciated just seeing them go through the process
20 since 2017.

21 I do worry that not everyone involved in these
22 stakeholder negotiations has a sense of the urgency
23 of launching this wind facility. We are not usually
24 educated via our media about the horrors of climate

1 change. We don't get a global news report. We
2 rightfully struggle with the tragedies of racial
3 injustice and coronavirus but we can't afford to
4 ignore the reality of climate change.

5 So I'm hoping we can broaden the education
6 that makes everything run more smoothly on this
7 project and that it gets going.

8 I was very encouraged that the Coast Guard saw
9 that the distance that they had between the wind
10 turbines now is fine.

11 So thank you very much. Bye bye.

12 CHRISTINE DAVIS: Thank you very much, too.

13 So thank you, Janice.

14 And we've got Susan and Janet. And they -- I
15 believe if I just scroll down here a little bit --
16 yeah, that looks like that's -- that's in that chat
17 box.

18 So, Susan, go ahead.

19 SUSAN STARKEY: Great. So can you hear me?

20 CHRISTINE DAVIS: I can hear you just fine.

21 Thank you.

22 SUSAN STARKEY: Oh, terrific.

23 Susan Starkey, S-t-a-r-k-e-y.

24 As the co-chair of the Faith Communities

1 Environmental Network, of which a few other speakers
2 who are also members of our group, I care greatly
3 about sharing our concerns for the cry of the earth
4 and the cry of the marginalized people and all
5 species.

6 Personally, BOEM is one who's worked on
7 understanding these issues since 2017, when we were
8 working on bringing Vineyard Winds cables into
9 Yarmouth Port.

10 I fully support Vineyard Wind's offshore wind
11 projects. They have engaged the communities, many
12 stakeholders for years in advance and have dedicated
13 millions of dollars to ensure safe mitigation of all
14 the potential harm that can happen during
15 mitigation.

16 Regarding the current BOEM report, Vineyard
17 Wind responded to the fisheries' main ask for
18 changing the spacing between lanes as to the other
19 companies. This was and is a dramatic concession
20 that gives up to a third of development, which,
21 frankly, I believe is too much to concede really.
22 And now, I'm -- I'm fearing that we're going to hear
23 from fisheries that potentially apply that they
24 haven't been heard enough and think that that is

1 unconscionable.

2 There has been so much community outreach and
3 stakeholder engagement. Further confessions are
4 unnecessary and would call damage moving forward.

5 I ask you to reject Proposal F, as it further
6 stalls the progress of renewable offshore wind
7 energy. It is time to move forward.

8 The proposal, as Vineyard Wind presents it,
9 has the best chance of addressing many of the needs
10 of our most marginalized citizens in the northeast.
11 They need affordable renewable energy; they need job
12 creation in a new industry with good paying jobs;
13 and they need us to address climate change before
14 its crisis affects all of us further.

15 Climate change, not renewable energy, is
16 causing chaos for the fishing industry. We need to
17 all work together to support the safe and effective
18 development of this industry in order to mitigate
19 the climate emergency we face in the next few years.

20 Pushing through unnecessary changes at this
21 point is of little benefit to the fishing industry
22 and hamstringing a new offshore wind industry is
23 unfortunate, to say the least.

24 So you might know that Vineyard Wind went

1 through every permitting process without a
2 significant override compared to Cape Wind years
3 ago. They've gotten their permits fair and square.

4 We need every offshore wind company to be
5 diligent in these ways. And so I thank BOEM for
6 their diligence and making sure that every company
7 has those.

8 We need to do what Vineyard Wind has done,
9 which is to ensure that they will do proper
10 mitigation to impacts of marine life and to commit
11 to ongoing monitoring and research that will help
12 perfect the industry here in the U.S. We need every
13 company that proposes offshore wind projects in
14 these protected waters to be similarly diligent and
15 collaborative.

16 It is well past time to move forward with
17 Vineyard Wind's projects.

18 Thank you.

19 CHRISTINE DAVIS: Thank you, Susan.

20 Next, we have Janet. And at this time, Janet
21 is our last speaker.

22 I want to remind you of a couple things. If
23 you do want to speak, please press Star 1 right now
24 and ask -- speak to the operator to get you in the

1 queue.

2 And then also, I know that there have been
3 quite a few questions and answers -- or questions
4 that have been populated into those folks that are
5 on Zoom, using the Zoom Q & A box. So if you've got
6 questions, we are getting to the last speaker and
7 we're going to turn to the question-and-answer
8 period next. So please enter any questions that you
9 might have.

10 And with that, Janet, I'll turn it over to
11 you.

12 JANET WILLIAMS: Yes, thank you.

13 My name is Janet, J-a-n-e-t, Williams,
14 W-i-l-l-i-a-m-s. I'm a member of the Cape Cod
15 Climate Change Collaborative, but I'm here today
16 representing the Chatham Climate Action Network, a
17 collaboration of organizations, businesses and
18 residents of Chatham, Massachusetts, united in our
19 desire and effort to address and reduce the
20 increasingly negative impact of climate change on
21 our town, our region and the world.

22 We first would like to thank BOEM for the
23 opportunity to provide comment today on this SEIS on
24 the Vineyard Wind projects. And we also want to

1 thank and commend BOEM for making the substantial
2 but absolutely necessary effort to thoroughly
3 analyze the environmental and economic impacts of
4 this project and offshore wind development in the
5 northeast U.S. and to develop this comprehensive
6 assessment.

7 So there are two reasons why the Chatham
8 Climate Action Network is uniquely situated to speak
9 today with respect to the Vineyard Wind Project.
10 First, if you don't know, Chatham is located at the
11 elbow of Cape Cod; and as such, is surrounded on
12 three sides by water.

13 And secondly, Chatham, as a result of that,
14 has a long and proud tradition and to this day
15 remains heavily dependent on our commercial fishing
16 industry.

17 These two facts mean that here in Chatham,
18 we're very focused on eliminating or reducing, if we
19 can't eliminate, the damaging aspects of our
20 changing climate as they show up here locally with
21 rising sea levels, increased number of storms,
22 increased intensity and frequency of storms,
23 increasing erosion of our coastline, loss of our
24 saltwater marshes that are so important to protect

1 our coasts.

2 And we're also keenly attuned to the impact of
3 our changing climate on our fishing industry,
4 particularly with respect to declining critical fish
5 stocks, as they either move northward in warming
6 waters or simply disappear resulting in the loss of
7 economic opportunities and loss of jobs that are so
8 important to our community.

9 So we're very concerned that movement toward
10 resolving climate change move as quickly as possible
11 to avoid them and reduce, to me, very damaging
12 impact.

13 We believe that offshore wind generally, and
14 the Vineyard Wind Project in particular, is a
15 critically important part of the solution to the
16 climate crisis. We believe that the town of Chatham
17 stands to benefit in many ways from this project
18 moving -- moving forward quickly by reducing our
19 continued reliance on fossil fuels, to provide
20 electricity to heat our homes, by creating many new
21 jobs and creating other economic development
22 opportunities for our town.

23 So here we are today here to speak in support
24 of the Vineyard Wind Project. We specifically want

1 to support Alternative D-2, the east-west
2 one-nautical-mile turbine spacing without transit
3 lane. This alternative will reduce conflict with
4 commercial fishing and marine navigation. It
5 recognizes and protects existing ocean uses, such as
6 the commercial fishing industry, while protecting
7 the marine environment and setting the path forward
8 in a fair and responsible way to protect all
9 stakeholders, particularly the commercial --
10 commercial fishing industry.

11 Requiring additional transit lanes has been
12 deemed unnecessary by the U.S. Coast Guard, and we
13 agree. This would result in more complex -- more
14 delay and damage to our industry and potentially
15 making ocean transit even more complex and dangerous
16 to the fisherman.

17 So we are therefore opposed to alternative
18 asks requiring additional transit lanes and support
19 Alternative D-2.

20 The SEIS in front of us today clearly
21 demonstrates that offshore wind energy can be
22 developed in a manner that is completely compatible
23 with commercial fishing and other ocean marine
24 activities. And that projects, such as Vineyard

1 Wind, should advance as quickly as possible, as
2 quickly as reasonable and responsible development
3 can allow.

4 We believe that this SEIS provides more than
5 sufficient information and support of the
6 development of the offshore wind industry and the
7 much needed clean, renewable energy resource it will
8 provide including the Vineyard Wind Project.

9 So we urge BOEM to complete this review in a
10 timely fashion in accordance with the -- with the
11 timeline that was laid out and referred to earlier
12 and provide a pathway for this project to move
13 forward recognizing all the compromise that has been
14 made and avoid any serious consequences that could
15 only further delay and jeopardize our ability to at
16 last move forward beyond reliance on fossil fuel.

17 We here in Chatham are depending on you to
18 help move this forward and approve the Vineyard Wind
19 Project.

20 Thank you very much.

21 CHRISTINE DAVIS: Thank you, Janice.

22 And thank you to everyone who's provided
23 comments today. I appreciate folks participating in
24 this process and providing your input.

1 I'll pause just a moment to see if anyone else
2 wants to press Star 1 at this time today to join the
3 queue and potentially provide comment. I'm giving it
4 just a second here to see if we got anyone.

5 Okay. I'm not seeing anyone else in the
6 queue. So with that, I'm going to officially close
7 the public testimony for today's session at 7:00
8 Eastern Time, straight up on the hour.

9 All right. So next we're going to do Q & A.
10 And two-way communication is very much a priority
11 for BOEM. So we're going to answer questions --
12 we're going to start by answering the questions that
13 participants have already submitted, and then any
14 others that we see in the next 15, 20 minutes or so.

15 Some of you have already done this, but if
16 you'd like to submit a question, please use the Q
17 & A function on Zoom. We've had several people
18 who've dedicated the time today to watch in the Q &
19 A box. They're preparing answers to the questions.

20 Additionally, I'd encourage you to visit the
21 Frequently Asked Questions on the virtual meeting
22 web page. There's a bunch of information there.

23 And so at this time, I'm going to turn it over
24 to Isis Farmer with BOEM to address the questions

1 that we've received and to open the meeting up to
2 other questions.

3 As a reminder, you can use the Zoom Q & A
4 function to submit your questions.

5 So Isis?

6 ISIS FARMER: Thank you, Christine. I
7 appreciate that introduction.

8 My name is Isis Farmer, and I'm an
9 environmental coordinator at BOEM in our office of
10 Renewable Energy Program. I'm also one of the
11 co-leads for the Vineyards Wind 1 Project
12 Supplemental Environmental Impact Statement.

13 And as Christine noted, we do have several
14 questions that have been submitted throughout this
15 meeting through our Q & A box. And if you do still
16 have questions that you'd like to submit, feel free
17 to open up the Q & A box and submit your question.

18 Please note that you will not see the
19 questions right away -- Christine mentioned this
20 earlier -- but you will see the questions show up as
21 we answer them live.

22 And for the first question that we have, I'd
23 like Michelle Morin, would you mind turning on your
24 camera and unmuting your line and introducing

1 yourself?

2 MICHELLE MORIN: Yes. Thank you, Isis.

3 My name is Michelle Morin. I'm the Chief of
4 BOEM's environmental branch for renewable energy.

5 ISIS FARMER: Thank you, Michelle.

6 And the first question I have for you is a
7 general question. And the question is: Do you feel
8 that the virtual meetings are reaching a true
9 representation of the stakeholders and the people
10 who have concerns about this project? Or do you
11 feel that you will need to have an in-person meeting
12 to properly meet the regulations?

13 MICHELLE MORIN: Thank you, Isis.

14 During the COVID-19 pandemic, federal agencies
15 are required to continue to operate under all the
16 same legal mandates and administrative regulations.
17 And to the greatest extent possible, we need to
18 continue to maintain services to the American people
19 and our stakeholders consistent with the guidance
20 that's coming out from the CDC and state and local
21 health authorities.

22 As such, we're moving forward with our public
23 meetings in this virtual environment in order to
24 provide information to the public in the safest and

1 most effective way possible.

2 These public meetings, while they are virtual,
3 are still a great opportunity for a public
4 involvement and opportunities for you to provide
5 comments on the supplemental EIS.

6 In fact, I've heard a lot of great positive
7 feedback about our virtual meetings. And we
8 actually have had a much greater turnout to these
9 virtual meetings than we do our in-person meetings.

10 If it was not for COVID-19, we would be having
11 these meetings in person. But again, these virtual
12 meetings do comply with our public engagement
13 requirements in NEPA.

14 ISIS FARMER: Thank you, Michelle.

15 The next question I have for you is: Where in
16 the Supplemental Environmental Impact Statements is
17 the risk of foundation and power collapse due to
18 ship impact or simple fatigue failure discussed?
19 Are the various structural risks discussed? And is
20 the risk of cable failure discussed? And how -- and
21 how that will be repaired, and the environmental
22 impact that fixing the cable will result in.

23 MICHELLE MORIN: Thank you.

24 So, in addition to looking at potential

1 impacts with construction and operations -- I'm
2 sorry construction and decommissioning, the EIS also
3 considers potential impacts from maintenance and
4 operations, which would include repairs.

5 However, since the focus of this supplemental
6 is really on the expanded cumulative analysis, I
7 would refer people to the draft EIS for more detail,
8 and we'll have additional detail in the final EIS.
9 Offshore wind projects are more structurally --
10 their design is more complex than land-based wind.
11 And -- and in contrast to onshore turbines, offshore
12 turbines are more dynamic structures because of the
13 loading conditions. Therefore, these facilities are
14 designed to the appropriate standards for those
15 conditions.

16 And to ensure that, BOEM relies on what we
17 call Certified Verification Agents, or CVAs. And you
18 can find out more about the CVA requirement if you
19 go to our optional renewable regulations,
20 particularly, it's 30 CFR Part 585 Part G that talks
21 about facility design, fabrication installation.
22 And CVAs are independent companies that employ
23 professional engineers with appropriate
24 qualifications and experience to conduct these

1 third-party reviews.

2 And CVAs are very common. They're used in the
3 review and approval process for offshore wind in
4 Europe, but also offshore oil and gas in the United
5 States since the 1980s.

6 ISIS FARMER: Thank you, Michelle.

7 And so for our next question, I'm going to ask
8 for Bill Brown, our Chief Environmental Officer, to
9 turn on his camera and unmute his line.

10 BILL BROWN: I'm unmuted. Can you see me?

11 ISIS FARMER: Give us one second. We got
12 you.

13 BILL BROWN: All right. Okay.

14 ISIS FARMER: Thanks, Bill.

15 BILL BROWN: I got -- my internet has cut out
16 periodically, but I tend to get on fast.

17 Yeah. So there was questions about does BOEM
18 have climate awareness programs. And I think the
19 best way to answer that is, is principally through
20 our environmental studies program and through
21 assessments that we prepare that are -- the use that
22 information and other information -- and we do have
23 this environmental studies program that -- that
24 spends roughly \$30 million a year on -- on

1 addressing research on the potential environmental
2 impacts of the things we authorize, including
3 offshore wind.

4 And I would say that we have many studies that
5 address climate change. And I think they
6 collectively demonstrate ongoing changes from
7 climate change that threatened ecosystems and the
8 enterprises and cultures that depend on them.

9 And then we take the studies that we -- we
10 fund, and when we use them in assessments, like this
11 one, and I think as you will note, in the draft EIS,
12 for example, you know, there's a robust discussion
13 of, you know, the big picture on climate.

14 And, you know, we have, we have meetings with
15 the public on environmental documents, like this
16 one. So here's -- here's one way to raise
17 awareness.

18 And then I would like to just note one thing,
19 a little more specific, which is we have now for
20 five years funded a continuing review of our
21 environmental programs by a committee of the
22 National Academy of Science Engineering and
23 Medicine. And those -- there's committees called
24 the Committee on Offshore Science and Assessment,

1 and its meetings are accessible to anyone who has
2 access to the internet.

3 The next meeting is next Tuesday and
4 Wednesday, July 7 and 8th.

5 It focuses on BOEM's study profiles. And one
6 study profile that's up for discussion, for example,
7 concerns potential impacts of air pollution and
8 environmental justice, which is an area that we,
9 like many, are thinking very hard about right now.

10 And if you search for Committee on Offshore
11 Science and Assessment and National Academies of
12 Science Engineering Medicine on the web, I think you
13 can pretty easily find the page for the meeting.
14 It's preregistration. So I recommend to do that.

15 Thank you.

16 ISIS FARMER: Thank you very much, Bill.

17 And I'll also add that there's additional
18 information and publications on our virtual meeting
19 web page, including our Atlantic Science 2019 Year
20 in Review.

21 And the next question I have is for Michelle.

22 Michelle, would you mind turning your camera
23 back on and unmuting your line? Thank you.

24 So we've received a question that says:

1 Vineyard Wind has spent on the order of \$900 million
2 on lobbying in 2019, or said it spent about 300
3 million on lobbying in 2019. How can BOEM guarantee
4 that the comments presented for the supplemental EIS
5 are not all tainted by money from the developers?
6 How can all stakeholders be confident they are
7 getting a fair representation in this discussion?

8 MICHELLE MORIN: Yeah, thank you for that
9 question.

10 I can't think of lobbying that any one company
11 does, but I can speak to our goals and our
12 requirements.

13 There's two main purposes of the National
14 Environmental Policy Act, or NEPA, it's along under
15 which we're preparing the supplemental EIS. And the
16 two main purposes are to involve the public and then
17 form the decision.

18 And one of the ways we're doing this is by
19 holding these five separate public meetings on the
20 supplemental EIS. And we're making efforts also to
21 answer your questions directly, like this one, and
22 allow for public testimony.

23 BOEM's Chief Environmental Officer is present
24 tonight to listen to the testimony, ensure that

1 anyone who wishes to can speak and be fairly and
2 equally representative -- represented in the
3 discussion.

4 As Bill stated in his opening remarks,
5 stakeholder involvement is very important to BOEM.
6 And it is our goal to ensure -- it is our goal that
7 all users can successfully coexist on the Outer
8 Continental Shelf.

9 And I'll see if Bill wants to add anything to
10 that.

11 BILL BROWN: Oh, I thought -- I thought that
12 was a great answer.

13 But let me just say that the -- I don't know
14 how much money anybody's spending on lobbying.
15 That's not something we're aware of. But the people
16 in BOEM are doing what Michelle said, we're reading
17 the law, we're reading the science.

18 And what we -- what we recommend is, you know,
19 unaffected by influences other than that.

20 ISIS FARMER: Thank you to you both.

21 The next question I will take. And the
22 question is: This development seems backwards. We
23 are developing a power plant prior to making a
24 reliable electrical grid. Why is BOEM allowing a

1 seemingly random walk (2:12:36) approach to
2 development rather than an organized -- than an
3 organized development? Ann Barik in Tufts
4 University presented a plan that would both reduce
5 the costs and allow development to progress for
6 relatively smaller consumers than state. This
7 approach is relying on state PPAs where industry
8 will struggle to purchase green power. In the
9 supplemental Environmental Impact Statement, where
10 does BOEM discuss the pros and cons of developing a
11 grid as opposed -- as proposed by Ann Berik versus
12 the proposed action, and can you summarize the
13 results?

14 So the submittal of proposals for regional
15 transmissions, such as under the Ann Barik proposal,
16 is allowed under our regulations.

17 As with most of these assumptions, the choice
18 was made because any shared transmission strategy
19 that developed on the Atlantic Outer Continental
20 Shelf would reduce impact. Ann Barik has submitted
21 an unsolicited -- unsolicited proposal so for a
22 little -- this is just a little bit of background.

23 Ann Barik has submitted unsolicited proposals
24 to BOEM for development of to open-access offshore

1 transmission systems; however, neither are
2 considered reasonably foreseeable projects for this
3 analysis.

4 Utilizing a transmission network may reduce
5 total miles of cables required to connect offshore
6 projects, environmental impacts associated with
7 subsea cabling and onshore interconnections and
8 costs of development and operation. So all of those
9 would be reduced.

10 These projects are currently under review with
11 BOEM and are not considered -- again, not considered
12 reasonably foreseeable at this time. If you want a
13 more detailed explanation, that can be found in
14 Appendix D of the supplemental EIS.

15 Okay. And so for our next question, I'm going
16 to go back to Michelle.

17 Michelle, if you wouldn't mind turning on your
18 camera and unmuting your line.

19 Okay. And the question is: Did BOEM analyze
20 in the Supplemental Environmental Impact Statement
21 the positive impact that closing this region to
22 commercial fishing as maybe a result as -- as maybe
23 a result due to the -- due to the insurance policies
24 will have on creating a marine protected area? Was

1 this analyzed? And in particular, with respect to
2 the addition to climate change and the great climate
3 change mitigation these projects will cumulatively
4 bring?

5 MICHELLE MORIN: Okay. Thank you.

6 In the EIS, we did not consider the closing of
7 all finishing -- closing of the wind development
8 area to all fishing as something that's reasonably
9 foreseeable.

10 The EIS does contemplate that some fishing
11 sectors, like mobile gear fishing, may just be
12 disrupted. However, other fishing, such as for
13 higher recreational, fixed gear, which includes
14 trap, pots and gillnets. And private -- private
15 anglers would continue to fish in some capacity in
16 the wind development area and other lease areas.

17 The EIS also considers the artificial reef
18 effect of foundations, but these effects are likely
19 to be localized to the area surrounding the
20 foundations. The supplemental EISs did analyze
21 impacts of climate change in the area related to
22 commercial fishing as it relates to the baseline for
23 this resource, and also ongoing and future impacts
24 to the commercial fishing resource.

1 ISIS FARMER: Thank you, Michelle.

2 And so for our next question, we have: If the
3 cost is presented -- if the cost as presented is
4 denied, what options are on the table for the
5 developer? Or will the opportunity for another
6 developer open up to provide the benefits of
7 offshore wind in this area? And how fast can a
8 transition to another developer take place?

9 MICHELLE MORIN: Thank you.

10 So we do consider the disapproval of the
11 project in the supplemental EIS. That's considered
12 under what we call the no-action alternative, and
13 that's a requirement under NEPA, and so that is
14 included in our EIS.

15 So that does -- the disapproval of the
16 Construction Operation Plans doesn't preclude future
17 development within the lease area. If the project
18 was disapproved, another Construction Operation Plan
19 can be submitted for our review.

20 The average time for a lessee to develop a
21 Construction Operation Plan does vary, but typically
22 it's about two years. So, for example, for Vineyard
23 Wind, the lease was issued in March of 2015, and
24 their Construction Operation Plan was submitted in

1 December of 2017. And then, typically,
2 environmental review period be about another two
3 years.

4 So any future development in this area would
5 follow a similar timeline, additional reviews,
6 additional opportunity for public comment.

7 ISIS FARMER: Thank you, Michelle.

8 And I think I have one more question for you.
9 And the question is: The fact that a Supplemental
10 Environmental Impact Statement was required, was
11 this the first time this was requested by the
12 Department of the Interior? And the extreme need of
13 the developer for the tax incentives, which, by the
14 way, were renewed at a greater level, though they
15 actually made out financially by the pause and their
16 greatly competitive price, and the fact that the
17 developers spent so much money and resources on
18 courting Massachusetts entities while not treating
19 this as a regional or global project, indicate a
20 reckless developer. What guarantees can BOEM give
21 that moving forward, this developer will develop
22 this lease as is regionally responsible -- as a
23 regionally responsible partner to the United States?

24 MICHELLE MORIN: Thank you. So supplemental

1 EISs do occur. I myself have coordinated on one
2 when I was in our oil and gas program, so they do
3 happen. So that is not unusual.

4 And CQ regulations do spell out the process
5 for that. And they're typically focused like the
6 supplemental is, and Jenn explained earlier in the
7 presentation.

8 And so I can't really comment on the tax
9 incentive. But with regard to kind of oversight as
10 the project, we do have ability, under our
11 regulations, you know, to -- to monitor, to correct
12 any actions that would take place that would not --
13 that are not in the approval.

14 ISIS FARMER: And, Michelle, if you don't
15 mind, we have one more question that just came in.
16 So what this question says: When will BOEM
17 determine that there has been enough community
18 engagement and it's important to move forward?

19 MICHELLE MORIN: Okay. I think, you know,
20 part of that are these public meetings. So we're
21 going to, you know, continue this outreach.

22 In addition to the meetings, we are trying to
23 use every opportunity that's out there to engage the
24 public about what's in this document and about our

1 offshore wind program.

2 The comment period is open through July 27th.
3 And immediately after that -- well, actually, during
4 the comment period, as they're coming in, we are
5 assessing the comments and looking at those sort of
6 questions.

7 ISIS FARMER: Thank you, Michelle.

8 And now I'm going to go to Jenn.

9 Jenn, would you mind turning on your camera
10 and unmuting your line?

11 JENNIFER BUCATARI: Hi.

12 ISIS FARMER: Thank you.

13 JENNIFER BUCATARI: Okay.

14 ISIS FARMER: All right. So I have a
15 couple -- there are a couple of NEPA questions
16 that came in. And the first question is: What is
17 the -- what is the projected impact of F -- I'm
18 assuming they're referring to Alternative F -- on
19 cost, schedule, output and financial performance?

20 JENNIFER BUCATARI: Okay. Thanks, Isis.

21 The impacts to various resources from
22 Alternative F are considered under the appropriate
23 resource within the supplemental EIS, such as
24 demographics, employment and economics.

1 Also, in Chapter 2 of the supplemental EIS --
2 and we discussed some of the broader implications of
3 Alternative F, which I think this question might be
4 getting to. These implications include things like
5 the delay of the proposed project construction, if
6 significant additional survey work is need -- is
7 required. And also, the assumption that BOEM makes
8 that the addition of all six of the four nautical
9 mile transit lanes proposed by RODA would reduce the
10 technical capability of the Rhode Island and
11 Massachusetts lease areas by approximately 3,300
12 megawatts, which is 500 megawatts less than the
13 current state demand for offshore wind in that area.

14 ISIS FARMER: Thank you, Jenn.

15 And then another question for you: Is it
16 possible to expedite the process and permit Vineyard
17 Wind sooner than December? And may we also expedite
18 the permits on the wind facilities -- actually, I'm
19 sorry, this is a question for Michelle.

20 Michelle, would you my mind --

21 JENNIFER BUCATARI: I can respond, if you
22 want. That's okay.

23 MICHELLE MORIN: Okay. That's fine.

24 ISIS FARMER: I'm gonna start -- reread the

1 question. Sorry.

2 Is it possible to expedite the process and
3 permit Vineyard Wind sooner than December? And may
4 we also expedite the permits on the wind facilities
5 that are scheduled to follow along the East Coast?
6 The news from the Arctic is very troubling. This is
7 clearly a global emergency and deserves immediate
8 action.

9 JENNIFER BUCATARI: Okay. Thanks, Isis. And
10 thanks for the comment.

11 As these projects are considered to be major
12 infrastructure projects, the review and approval
13 process for offshore wind projects is already
14 expedited under the one federal decision process. So
15 issuance of a record of decision in December allows
16 us sufficient time to complete all the steps that we
17 need to and get public input on the SEIS and for
18 BOEM and cooperating agencies to address any
19 comments that are submitted in the preparation of
20 the final EIS.

21 ISIS FARMER: Thank you, Jenn.

22 Okay. And then there are a couple questions
23 for Ian.

24 Ian, would you mind turning on your camera,

1 unmuting your line and introducing yourself? And I
2 think -- are you on mute?

3 IAN SLAYTON: I am.

4 Hello, my name is Ian Slayton. I'm a fiscal
5 scientist at BOEM in the Offshore Renewable Energy
6 Program.

7 ISIS FARMER: Great. Thank you.

8 So the first question I have for you is on the
9 cumulative scenario. And the question is: On 516,
10 Jennifer states that New York and New Jersey have
11 asked for more offshore wind power than is
12 technically available to them. Are these demands
13 for offshore wind power in state law now? How does
14 BOEM plan to accommodate these requests?

15 IAN SLAYTON: So it's important to keep in
16 mind that what is technically available changes
17 with technology. So, with technology available off
18 the shelf right now, that full demand would not be
19 met.

20 The demand from those states is based on the
21 official state goals for offshore wind procurement
22 that each state has announced. And no decisions
23 have been made regarding additional leasing offshore
24 in New York and New Jersey.

1 BOEM will continue to work with the
2 intergovernmental state task forces and other
3 stakeholders to determine the best approach for any
4 future offshore wind leasing.

5 ISIS FARMER: Great. And the next -- I have
6 a couple questions for you on air quality, Ian.

7 So the next question is: Does the
8 Supplemental Environmental Impact Statement take
9 into account the required NOx and other emissions
10 regulations or requirements to do all of the -- all
11 of this construction? Can the number of sites be
12 accommodated while meeting the air pollution
13 regulations?

14 IAN SLAYTON: So the first project requires
15 and has applied for a clean air -- for Clean Air
16 Act permitting for the associated emissions with
17 building this kind of project. And the
18 Environmental Protection Agency is currently
19 processing that application.

20 Each project will undergo its own air
21 permitting, just like this proposed project is. And
22 each product -- just like each project is subject to
23 its own NIPA review, as this one is.

24 And with that, it'll determine how each

1 project can be built in accordance to the Clean Air
2 Act.

3 ISIS FARMER: Thank you, Ian.

4 And so there's another question. The question
5 is: Why was the very significant cumulative
6 greenhouse gas reduction benefit of the project that
7 are in the pipeline not included in the -- I'm
8 assuming they mean the Environmental Impact
9 Statement? After all, this is the -- I think there
10 was -- there's just another statement at the end of
11 the question about excitement for offshore wind, so
12 I'll stop there.

13 IAN SLAYTON: Okay. So, offshore wind on the
14 scale that's contemplated in this scenario is a --
15 it's a direct reflection of efforts on a state
16 level to reduce carbon emissions. But there's
17 only one -- that's only one component of those
18 efforts. They have others that are going along
19 with that.

20 And the contributions of these states are only
21 part of global emissions, right? The contributions
22 of their emission. And the scale of climate change
23 itself is quite large.

24 So with that said, the SEIS does discuss the

1 benefits of offshore wind projects on climate
2 change. In Section 8.8 of Appendix A, there's a
3 discussion about the increasing energy production
4 from offshore wind projects and what likely decrease
5 in greenhouse gas emissions -- emissions that would
6 relate to.

7 ISIS FARMER: Thank you, Ian. I now have a
8 couple questions for Brian Hooker.

9 Brian, would you mind turning on your camera
10 and unmuting your line?

11 BRIAN HOOKER: Hi, Isis. My name is Brian
12 Hooker. I'm a biologist in the renewable energy
13 program.

14 ISIS FARMER: Okay. Brian's going to get
15 your video spotlighted. There we go.

16 So the first question I have for you is: The
17 developers have said that they want RODA -- and
18 that's the Responsible Offshore Development
19 Alliance -- to represent the collective concerns of
20 the fisherman. However, the developers submitted a
21 preferred spacing to the Coast Guard. RODA also has
22 submitted recommendations in Alternative F. These
23 -- these conflict, but RODA is supposed to make
24 recommendations to or for the developers. How does

1 BOEM consider these facts in their analysis?

2 BRIAN HOOKER: Thanks, Isis.

3 So, I mean, BOEM, our responsibility is to
4 look at comments from whomever they come from,
5 whether they come from developers, whether they come
6 from the commercial fishing industry or other
7 sectors offshore.

8 So in this particular case, the developer
9 proposed layout is captured in Alternative D2, the
10 one -- one-by-one nautical mile spacing in an
11 east-west grid pattern.

12 The RODA transit lane proposal is in
13 Alternative F.

14 And these two alternatives are not mutually
15 exclusive, meaning the decision-maker can choose
16 both Alternative F and D-2; Alternative D-2 by
17 itself; Alternative F, you know, with the proposed
18 action, Alternative A; or other combinations.

19 BOEM assessed the impacts of these
20 alternatives singularly and in combination with
21 other alternatives, where -- where they were
22 appropriate.

23 ISIS FARMER: Thank you, Brian.

24 And the next question for you is: Where in

1 the Supplemental Environmental Impact Statement does
2 BOEM consider the potential for fisheries and energy
3 to work together? What are the options for the
4 assets to become assets for commercial fishermen and
5 the food industry? Can nets be integrated, or were
6 these conflicts analyzed? What's the encouragement
7 for the commercial fishermen to adapt to the new
8 landscape and the willingness of the offshore wind
9 developers analyzed? If so, what were the major
10 impediments to this collaboration? What were the
11 major benefits of this collaboration?

12 BRIAN HOOKER: So, BOEM strongly encourages,
13 you know, the -- you know, the commercial fishing
14 industry and the wind -- wind industry to work
15 together to find solutions to coexistence on the
16 Outer Continental Shelf. You know, we
17 participated and facilitated meetings regarding,
18 you know, alternative transit regarding transit
19 lanes, regarding, you know, facility designs.

20 However, the -- what the EIS -- the purpose of
21 the EIS does, it assesses the impacts to the
22 commercial fishing industry based on past and
23 current practices. So, we can't necessarily predict
24 future behaviors, you know -- you know, further out.

1 So, it's based on past and current practices.

2 However, the -- there are several state
3 negotiated mitigation agreements, such as Rhode
4 Island Fishermen's Viability Trust and the
5 Massachusetts Fisheries Foundation -- Massachusetts
6 Fisheries Innovation Fund that should continue to
7 facilitate this ongoing dialogue between these two
8 industries to find a best -- best -- best path for
9 coexistence. But there wasn't enough information
10 there to be able to analyze in the SEIS.

11 So I strongly encourage you to take a look at
12 table 3.11-5, that's in Appendix B of the SEIS, that
13 describes what the different mitigation packages are
14 that were developed by the State of Rhode Island and
15 the State of Massachusetts.

16 ISIS FARMER: Thank you, Brian.

17 And I think we have one question for you on
18 benthic repurpose.

19 BRIAN HOOKER: Sure.

20 ISIS FARMER: What did -- what did the
21 Supplemental Environmental Impact Statement
22 conclude as to the destruction of the benthos by
23 trawling and other dredging under fishing pressure
24 versus the destruction that the construction of

1 all the foreseeable wind farms will cause? The
2 National Academy of Science had to report on the
3 destruction by commercial fishing that I hope was
4 consulted in this analysis.

5 BRIAN HOOKER: Thanks, Isis. Maybe I'll
6 quickly answer the last part.

7 First, that there are actually a lot -- a lot
8 of different reports out there that discuss, you
9 know, what the impacts to the benthos are based
10 on -- on different, you know, fishing types. That
11 the National Marine Fishery Service has done one
12 specific to the fishing gear types that are found in
13 the Northeast region, within -- that our project
14 occurs. So those are certainly consulted.

15 But the cumulative impact analysis does
16 include the baseline conditions that -- in which the
17 Vineyard Wind Project would be occurring. And it
18 includes all bottom disturbing activities, whether
19 it be from commercial fishing, whether it be from,
20 you know, dredging for navigation or dredging for
21 beach renourishment, you know, the impact of other
22 cable placements.

23 These are all detailed in Table 3.3-1. That's
24 also in Appendix B.

1 Again, I point there because that's where we
2 really detail all the individual impact producing
3 factors, and sometimes referred to as IPF, in
4 greater detail than the text. The text does a good
5 job of summarizing that information that is in the
6 table, but if you wanted to look at, you know, each
7 of the specific impacts and those baseline
8 conditions, those are in that table.

9 But it was definitely a part of the
10 consideration and went into, you know, the
11 consideration of the incremental impacts of Vineyard
12 Wind with the understanding of the baseline
13 conditions.

14 But we didn't -- we didn't do a separate
15 assessment of all those different activities.

16 That's it.

17 ISIS FARMER: Thank you, Brian.

18 We're now going to go to Arianna. Arianna,
19 would you mind turning on your camera and unmuting
20 your line. Okay.

21 And the question -- first question I have for
22 you is: Will the structure lighting be able to be
23 activated by ships in distress for navigation when
24 the weather is unfavorable? Will the markings be

1 clear in under an -- will the markings be clear
2 under visual duress? Will they be active above a
3 critical seascape for navigational aid?

4 ARIANNA BAKER: Thank you, Isis.

5 So to introduce myself, my name is Arianna
6 Baker, and I'm the navigation analyst at BOEM.

7 So Vineyard Wind does discuss some of
8 potential aspects of their lighting and marking
9 plan, if you look in Section 5.4 of the Supplemental
10 Navigation Safety Risk Assessment. And that can be
11 found on BOEM's website on the Vineyard Wind web
12 page.

13 This includes potential marking using things
14 like sound system signals or marking turbines with
15 automatic identification system transponders. But
16 it states that the ultimate plan will be generated
17 with consultation with the Coast Guard and BOEM.

18 So while the specifics of the lighting and
19 marketing plan have not been solidified yet, BOEM
20 has a draft lighting and making guideline that
21 specified that when leases are required by the Coast
22 Guard, to obtain a permit for private aids
23 navigation, otherwise known as a PATON.

24 The PATON's regulations will require

1 individuals or organizations to mark privately-owned
2 marine obstructions or other similar hazards, namely
3 surface structures such as electronic service
4 platforms or wind turbines.

5 So BOEM will include, as a condition of COP
6 approval, the requirement that lets you submit a
7 copy of any PATON applications that they receive
8 from Coast Guard to the BOEM.

9 The U.S. Coast Guard Aids to Navigation Manual
10 establishes the requirements for offshore wind
11 facilities in Chapter 4 in Section G. And again,
12 that's the U.S. Coast Guard Aids to Navigation
13 Manual, Chapter 4, Section G.

14 Thank you, Isis.

15 ISIS FARMER: Thank you, Arianna.

16 Okay. And I believe our last question is
17 about other uses. And I'm gonna go back to Michelle.

18 Michelle, would you mind turning on your
19 camera and unmuting your line?

20 Okay. And again, this question is about other
21 uses. And the question is: How will the Atlantic
22 wind farm impact the defense objectives of the
23 United States? Are we opening up vulnerabilities to
24 observation and threats from foreign countries?

1 Where was this discovered in the Supplemental
2 Environmental Impact Statement? And these reports
3 that the West Coast Federal Defense forces oppose
4 the offshore wind farm. What was the reaction for
5 the East Coast offshore wind development?

6 MICHELLE MORIN: Thank you.

7 So BOEM does coordinate very closely with the
8 Department of Defense for activities both on the
9 West Coast and East Coast. Our coordination process
10 occurs prior to leasing, also when we get site
11 assessment plans, and then when we get Construction
12 and Operation Plans, like the one we're discussing
13 today. And service occurs at multiple stages in our
14 process.

15 So before we even issue a lease area, the
16 area's reviewed by DOD. Before we approve anything
17 to be constructive, DOD reviews again, including the
18 instrumentation that's proposed to be installed on
19 these facilities in the seafloor to see -- you know,
20 it looks for things that interfere.

21 So in particular, for the Vineyard Wind
22 Construction Operation Plan, DOD did an assessment
23 in 2018. And they stated, after their close review,
24 that they said the proposed project would result in

1 minor but acceptable impact to the Northern Command,
2 North America Air -- Airbase Defense, or NORAD
3 mission.

4 And so then we recently reconfirmed that 2018
5 assessment that is still valid after the change in
6 turbine style, and so DOD did confirm that.

7 I just wanted to remind everybody, if you want
8 to look at that in more detail, you can see Section
9 3.14 of the supplemental EIS. And it talks about
10 military and national security uses.

11 ISIS FARMER: Thank you, Michelle.

12 And with that, those are all of our questions.

13 And so I will hand things back over to Christine.

14 CHRISTINE DAVIS: Thank you, Isis.

15 I believe that we'll just pass to see if
16 anyone has any questions specific to the SEIS that
17 you want to get in? We'll give that just a moment
18 to see if there any, like I said, specific to the
19 SEIS questions that we can add to the mix.

20 And I want to thank everybody who's
21 participated today who have provided comments and
22 participated in this process.

23 So, you know, just a minute.

24 Isis, I think we're good? Yes.

1 ISIS FARMER: Yes, I think we're good. Oh.

2 CHRISTINE DAVIS: Okay. Great.

3 So, if you look at the slide -- this is the
4 next slide, please, Isis, was the one on where you
5 can provide comments -- the comment period is open
6 until July 27th.

7 We've completed three of the five public
8 meetings. There are a couple more next week with
9 more information available on the website and a
10 number of ways that you can provide comments in
11 addition to writing and online and whatnot. So just
12 be aware that there are other opportunities.

13 So please have those comments postmarked by
14 the 27th to get them in.

15 In a moment. I'll turn it over to Bill for his
16 closing remarks, but I want to thank you for
17 participating tonight on behalf of myself.

18 And also, have a great weekend, Fourth of
19 July. Stay -- stay safe and be well.

20 So back to Jim.

21 BILL BROWN: Hi. Back to Bill?

22 CHRISTINE DAVIS: Oh, I'm sorry, Bill. Sorry,
23 Bill. It's been a long week, right? Back to Bill.

24 BILL BROWN: That's okay, Christine. Thank

1 you.

2 CHRISTINE DAVIS: Sorry.

3 BILL BROWN: And for those that weren't at
4 the beginning, let me just restate that BOEM is a
5 federal agency charged with managing development
6 of energy resources, including offshore wind and
7 nonenergy minerals on the Outer Continental Shelf.
8 It includes, for examples, sand from two separate
9 hurricanes.

10 And the Outer Continental is the area beyond
11 state waters but subject to the jurisdiction of the
12 United States. And that includes nearly 2.5 billion
13 acres, more than the land area of the nation.

14 We thank you for joining us today. This has
15 been a great meeting with great comments and
16 questions, and we look forward to hearing more from
17 you.

18 BOEM is committed to protecting our oceans and
19 coasts and the communities that depend on them, and
20 to the future of offshore wind, also.

21 Please remember that the comment period on the
22 supplement to the draft EIS is open through July
23 27th.

24 Thank you, again, and stay well and good

1 evening.

2 (The meeting was adjourned at 7:27 p.m.)

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C E R T I F I C A T E

Commonwealth of Massachusetts

County of Norfolk, SS

I, Darcy Lee Schramm, a Professional Court Reporter and Notary Public in and for the Commonwealth of Massachusetts, do hereby certify that the foregoing Public Information Meeting was taken before me on July 2, 2020. The said testimony was taken digitally and transcribed under my direction. To the best of my knowledge, the within transcript is a complete, true and accurate record of said Meeting.

I am not connected by blood or marriage with any of the said parties, nor interested directly or indirectly in the matter in controversy.

In witness whereof, I have hereunto set my hand and Notary Seal this 15th day of July, 2020.




Darcy Lee Schramm

My Commission Expires:

April 4, 2025