

In The Matter Of:

Department of Natural Resources & Environmental Control

In re: Offshore Wind Public Comment Workshop

Hearing

December 5, 2017

Wilcox & Fetzer, Ltd.

1330 King Street

Wilmington, DE 19801

email: depos@wilfet.com, web: www.wilfet.com

phone: 302-655-0477, fax: 302-655-0497



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DEPARTMENT OF NATURAL RESOURCES & ENVIRONMENTAL CONTROL
OF THE STATE OF DELAWARE

RE: Offshore Wind Public)
Comment Workshop)

..

Lewes Public Library
111 Adams Avenue
Lewes, Delaware 19958

Tuesday, December 5, 2017
6:00 p.m.

..

BEFORE: Lisa Vest, Hearing Officer

ALSO PRESENT: Thomas Noyes, DNREC
Rob Underwood, DNREC

-- Transcript of Proceedings --

WILCOX & FETZER
1330 King Street
Wilmington, DE 19801
(302) 655-0477
www.wilfet.com



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1 MS. VEST: Good evening. Can
2 everybody hear me?

3 UNIDENTIFIED SPEAKER: Yes.

4 MS. VEST: Okay. I want to welcome
5 everybody that has chosen to come out tonight. The
6 time is 6:05 p.m. on Tuesday, December 5, 2017. And
7 we are going to go ahead and begin the proceedings
8 tonight.

9 Thank you guys for coming out and
10 taking the time out of your busy holiday schedules.
11 For those of you that may not recognize me, my name
12 is Lisa Vest, and I have been delegated to preside
13 over the hearing/meeting this evening.

14 In conjunction with DNREC's Division
15 of Energy and Climate, Delaware's Offshore Wind
16 Working Group is hosting public workshops to gather
17 input from the public about the potential for
18 offshore wind energy and the ways that it might
19 benefit the state.

20 This is the second of two such
21 workshops that are currently scheduled by the
22 Offshore Wind Working Group.

23 We are doing our best to make sure
24 that everyone has signed in. There are sign-up



1 sheets that have been passed around. I know some
2 people came in late. But if you have not already
3 done so, I would encourage you to raise your hand
4 for these gentlemen, Tom Noyes and Rob Underwood.

5 We do have sign-up sheets here at the
6 front. We want to make sure that everybody signs up
7 for a couple of reasons. We want to make sure that
8 there is an accurate record of attendance at
9 tonight's proceedings, as well as being able to
10 document who here might wish to offer formal comment
11 for the record being developed in this matter.

12 A little bit of protocol for this
13 evening's events: Following my opening comments,
14 Mr. Noyes will be given the floor to give a briefing
15 on the current status of the Offshore Wind Working
16 Group.

17 After that, representatives from both
18 US Wind and Deepwater Wind companies will offer
19 their presentations on projects approved earlier
20 this year by the Maryland Public Service Commission.

21 At the conclusion of those
22 presentations, those wishing to offer formal comment
23 on these projects and this matter in general will be
24 recognized accordingly.



1 Even if you don't wish to speak
2 tonight, we do want to have an accurate record of
3 attendance. So, again, please, for those of you
4 coming in late, if you have not seen the sign-up
5 sheet, let us know.

6 In an effort to accommodate everyone
7 who has a desire to offer comment for the record and
8 in order to provide fair and equal time to everyone
9 who has wished to speak at any of the workshops
10 being held in this matter, comments must be limited
11 solely to the subject matter at hand.

12 Additionally, as was the case in the
13 prior workshop, each commenter is asked to offer
14 their comment for the record in as precise a manner
15 as possible. To that end, each commenter will be
16 granted three minutes of time.

17 Please note, there will be no
18 yielding of one's time to another speaker in an
19 attempt to accumulate more than the allocated time
20 of three minutes.

21 If you have prepared written comments
22 or statements, I would ask that you present the same
23 to me when you have been recognized to approach the
24 front so that the same can be entered into the



1 formal record being generated in this matter.

2 You may then use your three minutes
3 of time to offer a brief summary of your comments
4 verbally for those that are in attendance tonight.

5 Whether listening or speaking, we ask
6 that everybody here today be respectful and
7 considerate of all opinions regarding this subject,
8 even though some may, in fact, be different from
9 your own.

10 I would also ask that all cell phones
11 be either muted or turned off for the duration of
12 these proceedings.

13 Lastly, it is important to note that
14 no decision is being made today with regard to any
15 particular proposal, nor is there going to be a
16 formal question and answer portion of the meeting
17 tonight.

18 The purpose of gathering here is
19 simply to provide a platform which the public may
20 offer comment for the record.

21 If, instead of formal comments, you
22 have come with specific questions, I would ask that
23 you reserve the same until after the meeting has
24 concluded and then ask those questions directly to



1 the representatives here this evening, all of whom
2 have come. They are more than willing to listen and
3 provide you with specific answers to such concerns.

4 That being said, I now at this time
5 turn the floor over to Tom Noyes, who will be
6 offering the current briefing status on behalf of
7 the Offshore Wind Working Group.

8 MR. NOYES: Thank you. Thank you,
9 everyone, for coming out tonight. There is nothing
10 that warms the heart of a civil servant than a
11 roomful of public engagement. (Laughter)

12 My name is Tom Noyes. I work for the
13 DNREC Division of Energy and Climate. I will
14 outline tonight's agenda and offer a brief overview
15 on the Offshore Wind Working Group, several of the
16 members of which are here this evening:

17 Representative Ron Gray.

18 We have Bob Howatt, who is Executive
19 Director of the Public Service Commission staff.

20 We have Drew Slater, our Public
21 Advocate. Drew represents the public in front of
22 the Public Service Commission.

23 We have Mario Giovaninni, who
24 represents Delmarva Power.



1 Not on a working group, but always
2 considered an honorable, we have The Honorable Joann
3 Conaway, one of our Public Service commissioners.

4 We have The Honorable -- The
5 Honorable stays with you, George Bunting.

6 I'm sorry. Who else? Oh, The
7 Honorable, current Honorable Rich Collins. Thank
8 you for being here.

9 Am I missing anybody? Thank you
10 again, all, for being here.

11 After my brief presentation --

12 REPRESENTATIVE COLLINS: Senator
13 Charlie Voshell.

14 MR. NOYES: Oh.

15 REPRESENTATIVE VOSHELL: A
16 representative.

17 MR. NOYES: Thank you. Thank you for
18 being here.

19 After my brief overview, we are going
20 to hear from two companies, US Wind and Deepwater
21 Wind, that have won approval from the Maryland
22 Public Service Commission under Maryland law to
23 build offshore wind projects off the coast of
24 Maryland and Delaware to serve electric customers in



1 Maryland.

2 We asked these companies to be here
3 tonight not to offer a sales pitch, but to inform
4 the public on how these projects that have been
5 approved by Maryland are moving forward.

6 After those two companies make
7 presentations, we will open the meeting to your
8 comments.

9 Governor Carney signed Executive Order 13
10 creating the Offshore Wind Working Group in August
11 of this year to study how Delaware can participate
12 in developing offshore wind, identify ways to
13 leverage the related economic opportunities, and
14 make specific recommendations for engaging in the
15 development of offshore wind for Delaware.

16 The working group has met five times so
17 far and has one more meeting scheduled for Monday,
18 October -- or Monday, December 11th. Tonight's
19 meeting is the second of two scheduled public
20 comment workshops.

21 The working group is due to submit a
22 progress report because -- it's a progress report,
23 because we will not have finished all of our
24 homework. I see Representative Gray is smiling at



1 that.

2 The progress report is going to touch on
3 these subjects: Relevant laws, regulations,
4 benefits, cost barriers, and opportunities for
5 developing offshore wind, recommendations for
6 shorter and longer-term strategies, recommendations
7 for plans to develop job opportunities in the
8 offshore wind industry, and a draft of any necessary
9 implementing legislation if the working group
10 recommends legislation.

11 The working group intends to hold more
12 public comment sessions and extend the public
13 comment period beyond December 15th to give the
14 public time to comment on its recommendations and
15 progress report.

16 DNREC has set up a web page to compile and
17 make public the agendas, minutes, reports, analysis,
18 reference materials, and public comments relating to
19 the working group's deliberations. We encourage you
20 to use this web page to stay informed.

21 After tonight's meeting, we will continue
22 to accept public comments and post them on the web
23 page, as we have done since the working group began
24 meeting.



1 If you go to the web page there, you will
2 find clear instructions on how to submit comments,
3 which is basically to e-mail me.

4 Public comments are being accepted at
5 working group meetings, in writing in between
6 meetings, at public comment workshops like
7 tonight's. They are being posted at the web page,
8 as I mentioned.

9 More public comment workshops will be
10 scheduled after the progress report is released. So
11 we are accepting comments going forward. We are not
12 done yet.

13 I want to speak briefly about the two
14 companies that have won approval from the Maryland
15 Public Service Commission to build offshore wind
16 projects off of our coast.

17 US Wind has won approval to build 248
18 megawatts -- a megawatt is 1,000 kilowatts -- off of
19 Ocean City. You will see that their site is in blue
20 and green towards the bottom of the screen.

21 Deepwater Wind has won approval to build a
22 120-megawatt project, what they call Skipjack, off
23 of Rehoboth Beach. This is the yellow shape, the
24 plot that's on the map here. Some who have recalled



1 the Bluewater Wind project will remember that that
2 was the site that Bluewater wind planned to build
3 on.

4 Just a quick comparison on the two
5 companies. The projects that have been approved by
6 the Maryland Public Service Commission,
7 248 megawatts for US Wind, 120 megawatts for
8 Skipjack.

9 US Wind plans to begin generating
10 electricity in January of 2020, Skipjack in November
11 of 2022.

12 The project cost, in millions of dollars,
13 1.3 billion and 720 million.

14 OREC price: I should probably explain
15 what an OREC is. A REC is a renewable energy
16 credit. It is how you measure the output of
17 renewable injury.

18 An OREC, created by the State of Maryland,
19 is an offshore wind renewable energy credit.

20 There are two ways of looking at the OREC
21 prices. One is the overall price, \$137 per megawatt
22 hour, \$131 per megawatt hour.

23 The companies get that, but then they sell
24 the electricity, the power, the energy, and the



1 capacity on the market. So what Maryland expects
2 the net OREC price for these projects to be are in
3 the \$70 range, \$78, \$72.

4 Is there anyone who has solar panels on
5 their house in the room? (People are raising hands)
6 Those who have solar panels on their homes know that
7 you get -- they are called SRECs, Solar Renewable
8 Energy Credits. This is the same idea, only on a
9 much bigger scale.

10 Other companies are preparing plans for
11 preparing proposals to build offshore wind projects
12 up and down the east coast. And states and the
13 federal government have coordinated to designate
14 areas, starting off with North Carolina, heading
15 north, Virginia, Maryland, Delaware, New Jersey, New
16 York, Massachusetts.

17 So we are seeing -- we are talking about
18 an industry that is being promoted up and down the
19 east coast. The working group is investigating the
20 opportunities these and future proposals could
21 present for buying offshore wind and for promoting
22 economic development that could benefit Delaware.

23 Finally, I want to offer a caveat before
24 we have these two companies offer brief



1 presentations.

2 I want to be clear that including these
3 companies on the agenda should not be taken as an
4 indication that the working group or any state
5 agency favors these companies over others that could
6 conceivably compete to sell offshore wind power, nor
7 should their presence here tonight be taken to mean
8 that the working group has decided whether to even
9 recommend entering into any offshore wind contracts
10 at all. These are open questions.

11 The working group has not yet formulated
12 recommendations about whether or how to engage in
13 offshore wind development. I hope that's clean,
14 that's clear enough.

15 We have asked these companies to be here
16 for the purpose of informing the public on these
17 projects, and not to try and give you a sales job.

18 So if you hear what starts to sound like a
19 sales pitch, for instance by describing benefits
20 without mentioning costs, we would encourage you to
21 listen with a discerning ear. (Laughter in public)

22 Following these presentations, we will
23 open the floor to comments from the public. We will
24 ask that you limit your comments to three minutes to



1 give everyone the same opportunity to speak.

2 We have a stenographer here making a
3 record of the session. So please speak clearly and
4 spell your name. In fact, we are going to encourage
5 you to come up front so everybody can hear you.

6 If you have prepared remarks, as we have
7 said, you are welcome to give them to us for
8 inclusion in the public record.

9 With that, that's my presentation except
10 to say we will be here after the meeting to answer
11 what questions we can within a reasonable amount of
12 time.

13 So, in reverse, in reversal alphabetical
14 order (laughter), we will start with US Wind.

15 MR. RICH: Well, good evening,
16 everyone. And thank you for taking time out of your
17 life to come and participate in this process.

18 I'm Paul Rich. I'm a project
19 developer for US Wind for all the projects on the
20 east coast. I will get into that in a minute.

21 I have 15 years of senior management
22 experience with renewable energy activities. And so
23 it's a pleasure to work on this US Wind project. We
24 are home-based in Baltimore, Maryland.



1 And, you know, Maryland undertook
2 about a three-year process of which you are
3 embarking on to culminate in legislation and a
4 process that would allow us to participate in their
5 market. And this is a quick overview of that.

6 As Tom adequately described, the wind
7 energy area that we use off of Maryland was let in a
8 public auction in 2014, and we occupied the site
9 starting in 2015.

10 It's about -- the site, itself, is
11 about 10 miles off of the coast of Ocean City. And
12 it's about 21 miles from Rehoboth Beach -- sorry --
13 Bethany Beach is where the closes turbine would be.

14 And we don't occupy the whole area.
15 It's a little hard to see, and I apologize for that.
16 But you can see there is a middle swath of turbine
17 layouts, and that's where we are focusing our
18 energies right now, which start around 17 miles off
19 the coast of Ocean City.

20 This is truly unfair. However, it's
21 a rendering of what the turbines look like at
22 17 miles, using an 8.4-megawatt turbine, and with 32
23 of them from the pier in Ocean City, Maryland. So
24 right there.



1 When this is done in a more formal
2 process, which will happen if this moves forward
3 under permitting and public engagement, these
4 renderings are printed out and put on easels, and
5 you are allowed to view them in a way that it's a
6 little easier to see.

7 But it's on the right-hand side of
8 the graphic is where the turbines are. You can sort
9 of see them there. But, anyway, that's what it
10 looks like at 17 miles.

11 The impacts to ratepayers in Maryland
12 were really based on a law that had been established
13 in New Jersey by Governor Christie to create an
14 offshore wind industry there. But it was never
15 passed into statute in New Jersey. So it never took
16 effect.

17 But Maryland copied much of the
18 language and much of the ratepayer protection. So
19 what we see in Maryland is a law that doesn't allow
20 for the impact to the ratepayers from this wind farm
21 and the Deepwater project, as well, to exceed \$1.40
22 a month for individual ratepayers and no more than
23 1.5 percent on the annual bill of a commercial
24 entity.



1 And so with the approval last May at
2 the Public Service Commission of Maryland, we
3 achieved those ratepayer protection thresholds and
4 have met that obligation under this statute.

5 The middle graphic is the type of
6 foundation that we are comfortable with
7 implementing, but there are other designs that are
8 adequate, as well.

9 The turbine hub height where the
10 generator is, the most -- the largest visible piece
11 at height, is around 432 feet and weighs around
12 600 tons.

13 And the jackets, themselves, the
14 steel structures, weigh about 500 tons. So we are
15 talking about massive industrial activity and large
16 components that exist in this project.

17 That's my contact information. Since
18 there are no questions and answers that I am going
19 to entertain today, please feel free to copy this
20 down or get it from Tom or Rob. And contact me at
21 your convenience. And I will try to be as
22 responsive as I can be.

23 Again, thank you for your
24 participation in all of this. And thank you very



1 much for letting me speak.

2 MR. NOYES: Thank you, Paul. All
3 right. We have Deepwater.

4 MR. KHAN: Good evening, everyone.
5 If I knew I was going to be on camera, I would have
6 skipped that second helping at Thanksgiving.

7 (Laughter)

8 My name is Jamil Khan. I am with
9 Deepwater Wind. We intend to be your neighbors for
10 a long period of time. And, like any good neighbor
11 should do, we want to introduce ourselves, tell you
12 a little bit about our background, our history, and
13 what we are doing, you know, in your area.

14 This is actually a photo of Deepwater
15 Wind's project off of the coast of Block Island in
16 Rhode Island. This is the first offshore wind
17 project, commercial offshore wind project in the
18 United States, something that our company is
19 actually very proud of.

20 Deepwater Wind currently owns three
21 federal offshore wind energy areas -- sorry, leases
22 three offshore wind energy areas.

23 UNIDENTIFIED SPEAKER: Louder!

24 MR. KHAN: Sorry. Can you guys hear



1 me? So Deepwater Wind currently owns three leases
2 in federal waters for offshore wind energy.

3 This area is currently where we will
4 be using for our Skipjack project. But you can see
5 that we also have other areas off the coast of New
6 York, Rhode Island, and Massachusetts.

7 Our Block Island wind farm, again, is
8 the first commercial offshore wind energy project in
9 the United States. It's much different than the
10 project that we have been pursuing with Skipjack.

11 This was in state waters. It's five
12 turbines, a lot closer to land than what we intend
13 for Skipjack. It has enough energy to power
14 approximately 17,000 homes. And during construction
15 we were able to create actually 300 jobs that were
16 created around the Rhode Island, Massachusetts area.

17 For Skipjack specifically, you know,
18 we are pursuing a 120-megawatt wind farm,
19 approximately five times -- excuse me, four times
20 the size of the Block Island wind farm.

21 But this is going to be in much
22 further -- much further from land and federal
23 waters, approximately 18 miles off of the Delmarva
24 Peninsula.



1 We were an awarded the OREC
2 contracts, as Tom mentioned, in a competitive
3 process with the Maryland Public Service Commission
4 earlier this year, and we should be on schedule to
5 commence operations in 2023.

6 Now, similar to my colleague's
7 presentation, you probably can't see too much here,
8 but this should give you a rough scale. If you look
9 into the black box on the slide, you will see what
10 our estimate is of the view from -- this is actually
11 from Ocean City, approximately 20 miles from Ocean
12 City. This is what our wind turbines would look
13 like from the beach.

14 And then here, 18 miles from Bethany
15 Beach, another rendering of what we expect the view
16 to actually look like.

17 Now, here is a more detail on our
18 schedule for the project. So we were awarded the
19 OREC contract in May of this year. You know, we
20 should be conducting our site surveys for the area
21 starting this spring, after which we would apply for
22 permits.

23 But throughout that entire process
24 and then throughout the entire schedule, we would



1 have a pretty extensive, you know, on-the-ground
2 relationship with communities, including this one,
3 just to update everyone on everything that we are
4 conducting.

5 Hopefully, if all goes well, we would
6 have permit approvals as early as June of 2020, with
7 installation to begin early 2021, and then again
8 commercial operations prior to the end of the year
9 in 2022.

10 Now, just overall, you know, what we
11 are trying to accomplish here is generally, you
12 know, reduced emissions for the area. You know,
13 120 megawatts would actually have some impact on
14 emissions from local fossil fuel power plants on
15 Delmarva Peninsula.

16 As a zero marginal cost resource, it
17 would actually have a -- we would be able to lower
18 wholesale energy rates on the peninsula, as well;
19 and then, you know, also provide additional future
20 clean energy to the area. You know, the site that
21 we are developing Skipjack on could actually
22 potentially even be expandable in the future.

23 You know, in the case of Block
24 Island, we were actually able to retire diesel



1 generators on the island and were able to do it in
2 close partnership with the community of Block Island
3 with extensive outreach and on-the-ground presence,
4 and we intend to do similar efforts over here.

5 This is my contact information. I
6 will be sticking around in case anyone wants to,
7 anyone has any questions.

8 I will preemptively answer your first
9 question. That is not a Skipjack boat. (Laughter)

10 But, in any case, thank you so much
11 for the opportunity to speak to you all. I look
12 forward to meeting lots of you.

13 MR. NOYES: All right. Thank you.
14 We are going to start taking names from the sign-in
15 sheets that we have gotten. We have got some
16 probablies here.

17 And if somebody wants to speak but
18 has not yet had the chance to sign your name on the
19 sheet, we have another sheet here.

20 Here. Why don't you start?

21 MS. VEST: Yes.

22 MR. NOYES: There is a yes. And
23 there are a couple of yesses.

24 MS. VEST: As Tom just mentioned, you



1 know, what we will do is we will just go in the
2 order that you all signed these sheets. We will hit
3 the yesses first.

4 If, as a result of hearing somebody
5 else offer comment, it triggers something and you
6 would like to offer comment, don't worry.

7 As long as we have enough time, we
8 will circle back around, and we will go through the
9 maybes. And then we will finally say is there
10 anybody who hasn't been allowed the time to speak.

11 So, again, I will be keeping track of
12 three minutes per person. So let's just start. And
13 I will apologize right off the bat if I butcher your
14 name. Nancy Feichtl.

15 MS. FEICHTL: Hi.

16 MR. NOYES: Yeah, come on up.

17 MS. FEICHTL: I'm Nancy Feichtl,
18 F-E-I-C-H-T-L. I have to go by the name Nancy. I
19 have a complicated last name.

20 I was active with the Citizens for
21 Clean Power, and I did that for personal reasons. I
22 have been a lifelong asthmatic. And as a school
23 principal, I had to take every year of the 30-some
24 years I was a principal, I had to rush someone to



1 Beebe Hospital who was having an asthma attack
2 because of the bad particulate matter that is in our
3 air here.

4 And the irony of my having been with
5 that organization is my father was the first
6 superintendent of the Indian River Power Plant, and
7 here I was there to try to close it down.

8 I also am a local person. And I
9 worry about the economic future of Delaware, of
10 particularly Sussex County.

11 And I am a futurist. And a futurist
12 says, "Why wait for the future? Build the future."
13 And the future is in renewable energy, and it is
14 right on our back door.

15 If we can find a way to create jobs
16 and create college programs and an intense reason to
17 bring middle-aged people here, so it's not all of us
18 who are aged and that the only business in town is
19 hospitals and medical doctors. (Laughter)

20 We want another industry here, and it
21 would be the most wonderful industry that could ever
22 happen. And we need it.

23 So I'm sincere. This has got to
24 happen. Thank you.



1 MS. VEST: Thank you.

2 (Applause)

3 MS. VEST: George Bunting.

4 SENATOR BUNTING: Nancy is a hard act
5 to follow for sure. We kind of grew up together.
6 So we are coming from a different perspective
7 tonight.

8 I have been a state rep -- state
9 senator for a number of years. I grew up along the
10 coastal area, basically. I represented 12 towns. I
11 represented, as a senator, from Fenwick Island to
12 Rehoboth.

13 And if you look at what our
14 forefathers did and early leaders did and our
15 current leaders have done, we have protected that
16 area.

17 If you leave Fenwick Island to South
18 Bethany, that's completely protected almost all the
19 way along there.

20 And if you leave Bethany Beach and
21 you head up past Cotton Patch on up to the Inlet,
22 that's all preserved on both sides.

23 When you go across the Inlet, all the
24 way to Dewey Beach, that land is preserved.



1 When you leave North Shores and head
2 up to Cape Point, that's all preserved.

3 We have two economies, basically, in
4 this county -- agriculture, which is the largest
5 industry in our state -- and tourism.

6 We are looking at building severe
7 large structures off our coast. It's kind of an
8 interesting perspective. I looked at one. You can
9 hardly see it. Then you look off Bethany Beach, it
10 seems like you can see it. That's where my home is.

11 My concern is these structures have
12 about a ten-year life capacity mechanically. You
13 have got these huge structures out there.

14 I watch nightly as ships go up and
15 down out front. We have tankers sitting out there
16 sometimes five deep waiting to go in up the Delaware
17 Bay.

18 You have to have one accident, one
19 accident in navigation, hit one of these facilities,
20 and you have got an oil spill that will ruin the
21 beaches and ruin a lot of our economy for
22 generations.

23 That's my concern with it. I
24 wholeheartedly believe in renewable energy. Years



1 ago, though, we were taken down the path with
2 Fisker. We were taken down the path with Bloom
3 Energy, which we are paying now on our DP&L bills
4 and will be paying far out into the future.

5 This is a very expensive project.
6 There is no guarantees when it goes in the grid that
7 this is going to end up benefiting Delawareans. In
8 the long run, we are going to pay more. Thank you.

9 MS. VEST: Thank you, Senator
10 Bunting.

11 (Applause)

12 MS. VEST: Rich King?

13 MR. KING: I don't want to state. I
14 have a question.

15 MS. VEST: Okay.

16 MR. KING: I'm just wondering how
17 this will affect fishing. A lot of the guys online
18 will want to pull up to one of these windmills and
19 just fish next to it. And I'm assuming you are not
20 going to be able to.

21 MR. NOYES: Why don't you approach
22 one of us after the meeting?

23 MR. KING: Okay.

24 MS. VEST: Thank you, Rich. Marlene



1 Quinn?

2 MS. QUINN: You got the name. I live
3 in Fenwick Island. I'm sort of a newbie. I have
4 only been here since 1990. So I don't have a long
5 history. (Laughter)

6 I am in favor of renewable power, but
7 I'm not sure that doing it offshore in our ocean is
8 the way to do it.

9 And traveling around the world, I
10 have seen wonderful, wonderful wind power facilities
11 on land. And that's the way I would prefer to do
12 it.

13 Tonight I would like to ask you,
14 those of you who are making these decisions, to
15 consider the available research concerning the
16 affect of offshore wind farms on marine mammals
17 during both the construction and the operational
18 stages.

19 The physical presence of the turbines
20 is especially disturbing to those mammals that use
21 echolocation for their livelihood.

22 The Marine Manual Commission has
23 noted physical injury, physiological dysfunction,
24 such as loss of hearing sensitivity, behavioral



1 modification, disruption of mother/calf pairs, and
2 masking, which is the inability to detect important
3 sounds that these mammals need. And it's because of
4 the increased background noise. Turbines make a
5 hum. They make a noise under the water as well as
6 what you might hear above.

7 Marine mammal health reactions can be
8 subtle but very intense. The noise from the
9 turbines can cause disorders ranging from long-term
10 hearing loss, physiological stress, hypertension,
11 hormonal imbalance, and lowered resistance to
12 disease.

13 There are many studies that are
14 available, and they can be easily found. Get on the
15 Internet, Google. You can find -- you can find
16 hours and hours and hours of reading if you wish to
17 do that.

18 There always seem to be conflicts between
19 wildlife and human interests. To minimize one set
20 of environmental impacts, we deploy new technology
21 in the wilderness areas with little understanding of
22 the possible consequences.

23 So what I am asking you, those of you
24 that are making these decisions, please read the



1 research, and please consider that when you make
2 your decisions.

3 (Applause)

4 MS. VEST: Thank you, Ms. Quinn.
5 Charlie Garlow? Did I say that right?

6 MR. GARLOW: Here is a copy of my
7 comments. (Handing)

8 Hi. I'm Charlie Garlow. I live in
9 Rehoboth Beach, Delaware, with my wife, Joan
10 Flaherty, who may be circulating some clipboards if
11 you would like to assist the Citizens' Climate
12 Lobby, which is the organization that we have been
13 working as volunteers to help.

14 And our group is a non-profit,
15 non-partisan group here in Delaware and around the
16 United States, and even in some foreign countries,
17 as well.

18 Our hope is to stop global warming by
19 using market forces through a carbon fee and
20 dividend proposal that would be revenue-neutral, not
21 growing the tax that the government gets to keep.

22 The way it would work is you would
23 have a fee placed on every cone carbon or
24 carbon-equivalent product that is produced and



1 entering into the United States economy, such as at
2 the mine mouth or the oil well head or the ports
3 where large quantities of carbon-based fuels are
4 produced.

5 You put a fee on each ton. The money
6 is divided equally amongst all American households,
7 that will be able to use that money to pay, perhaps,
8 some of the higher fees they might be experiencing
9 for the cost of energy.

10 But they would also be given the
11 chance to use the money for energy efficiency and
12 solar panels and other sorts of things that would
13 help reduce their energy bills.

14 There is a third part to our
15 proposal, which is a border adjustment which says
16 that if other countries are importing oil or other
17 carbon-based fuels into our country, they get to pay
18 a fee upfront to level the playing field, if you
19 will, with domestic producers so that our American
20 companies would not be disadvantaged vis-a-vis those
21 other countries.

22 And, indeed, those other countries
23 would have an incentive to put a carbon fee and
24 dividend on their own products so they wouldn't have



1 to pay that at our American ports. It would be a
2 means of encouraging other countries to adopt
3 similar sorts of proposals for reducing global
4 warming.

5 We are all in favor of wind power
6 offshore as well as onshore. Offshore, our wind
7 resources here in Delaware are very abundant, very
8 strong. Onshore, not quite so much.

9 We are not onshore the Saudi Arabia
10 wind, like America is in the midwest, if you will.
11 So our offshore development is probably going to be
12 the best way to look forward for good, clean energy
13 offshore from wind.

14 The wind technology is constantly
15 improving. Anything that I tell you tonight about
16 costs -- I thought perhaps you would be interested
17 in costs. Money is often the -- money talks, but
18 cash screams, they say.

19 Some people suggested that offshore wind
20 will be more expensive. Indeed, it will be at first
21 until, like with our cell phones and our computers,
22 we get better at it and the prices come plummeting
23 down, as they are doing already.

24 Some folks have suggested that nuclear



1 power would be another form of clean energy we ought
2 to exploit here.

3 However, I just wanted to illustrate some
4 of the cost benefits of winds, rather dramatic.
5 Recently, a nuclear power plant in South Carolina
6 was halted on construction. It began in 2013. They
7 stopped here in 2017, four days after Westinghouse
8 had declared bankruptcy, one of their major
9 contractors.

10 The project was supposed to cost
11 \$12 billion. Instead, the cost overruns made it
12 look like it was going to cost more like
13 \$25 billion.

14 It was supposed to be completed by 2018.
15 It looks like the construction schedule is going to
16 be moved out to the mid 2020s.

17 Now, that's a 2,200-megawatt nuclear plant
18 which is not going to be built. Compare that with
19 the example that we have from wind power locations
20 where they would do something similar,
21 2,000-megawatt wind plants that are being purchased
22 by American electric power.

23 We have got time out.

24 MS. VEST: Yeah. I was trying to



1 wait for you to breathe. (Laughter)

2 MR. GARLOW: I was trying to talk as
3 fast as I could to get through all of these that I
4 summarized.

5 MS. VEST: You are doing a great job!

6 MR. GARLOW: But, in any event, thank
7 you for your consideration and holding this hearing
8 for us tonight.

9 (Applause)

10 MS. VEST: Next up, Meg Ellacott, I
11 believe.

12 MS. ELLACOTT: Mine is more
13 questions, so I will wait till the end.

14 MS. VEST: Fair enough. Thank you.
15 David Stevenson.

16 MR. STEVENSON: I will e-mail my
17 exhibits longer than the three minutes. I thought
18 we were going to have five.

19 I'm David Stevenson. I'm a policy
20 analyst with the Caesar Rodney Institute. I have
21 been looking at offshore wind farms. I looked in
22 great detail what we had in Maryland in costs. So I
23 wanted to share a little with you tonight.

24 UNIDENTIFIED SPEAKER: Can you speak



1 up?

2 MR. STEVENSON: I'm sorry. I was on
3 the stand testifying today for four hours. I will
4 try to speak louder.

5 So I wanted to share with you what
6 happened in Maryland. First of all, I will tell you
7 what happened in Maryland. But let's compare an
8 offshore wind farm to a solar farm. You can do
9 either.

10 So at first I'm going to give you the
11 advantages of the offshore wind farm.

12 Now I will give you the
13 disadvantages. The offshore wind farm will cost 25
14 times more than a solar farm would cost. It will
15 cost Maryland ratepayers -- each residential
16 customer will pay \$760 over a 20-year contract.
17 Industrial customers will pay up to \$5 million for
18 subsidies for the offshore wind farm.

19 You are talking 4 percent of that for
20 the solar farm. Offshore wind farms, you can do
21 some changes to make it so they won't kill too many
22 birds, but they always kill birds. Solar does not.

23 The offshore wind farm won't be
24 produced until about 2022 or 2023. A solar farm



1 could be up in operation in a year or two.

2 So you have got all these positives
3 of going solar rather than wind.

4 We talked about the expense of the
5 offshore wind farm. Wind farms are being built in
6 Europe for half of that price right now. That
7 technology is not coming here yet.

8 So the decision our folks on the
9 working group are going to have to make is do you
10 wait, or do you tag onto the wind farms that are
11 being built in Maryland.

12 I think the way is that you wait for
13 awhile. Delaware has to have some advantage to
14 this. There is no environmental advantages compared
15 to alternatives. There is no economic development
16 advantages.

17 We are talking about building maybe
18 70 megawatts. Don't worry about the size of that.
19 But compare it to what other states are doing.
20 70 megawatts. 368 in Maryland. 1,600 in
21 Massachusetts. 2,400 in New York.

22 Who is going to get the economic
23 development benefit of building wind turbines?
24 Every state is going to say we want the



1 manufacturing plant, we want the port in our state.

2 We are looking at 70 megawatts versus
3 these huge things that are going on in other states.
4 There is no reason in Delaware to rush this
5 development at this point.

6 Bluewater Wind failed because it was
7 too expensive.

8 I understand late last week the
9 second project that's been on the books now for
10 three or four more years, Cape Winds off of
11 Massachusetts, has been canceled.

12 It makes more sense for us at this
13 point to wait and build solar. Thank you.

14 MS. VEST: Thank you, Mr. Stevenson.

15 (Applause)

16 MS. VEST: John Matey, Matey?

17 MR. MATEYKO: Mateyko?

18 MS. VEST: Yes. My apologies.

19 MR. MATEYKO: Let me submit this for
20 the record. It's unfortunate that you have such
21 limited time, because it will make it virtually
22 impossible to deal with the issues constructively.

23 I'm John Mateyko of Lewes. I speak
24 tonight as president of the --



1 UNIDENTIFIED SPEAKER: We can't hear
2 you at all!

3 UNIDENTIFIED SPEAKER: I can't hear
4 you!

5 MR. MATEYKO: Yeah, this is not going
6 to work. I need to get it into the record. They
7 don't have a microphone here. They are not set up
8 to address the audience.

9 MR. MONETTI: You are right. You are
10 right.

11 MR. MATEYKO: With three minutes, you
12 can't do that.

13 UNIDENTIFIED SPEAKER: He's throwing
14 a temper tantrum!

15 MR. MATEYKO: We need to figure this
16 out. You do it for a living.

17 Tonight I speak as president of the
18 board of directors of Delaware Interfaith Power and
19 Light, a religious response to climate change.

20 We are faith driven and science
21 based. We base the science that we use on the
22 congressionally mandated science of United States
23 Global Change Research Project, not "any" science.

24 Offshore wind offers ready access to



1 relatively near-term 100 percent decarbonized energy
2 at scale.

3 Delaware Interfaith Power and Light
4 strongly supports the concept of offshore wind as
5 part of an overall suite of immediate pathway to
6 decarbonized energy.

7 Wind is 100 percent clean energy,
8 totally free of greenhouse gas pollution that drives
9 asthma and other respiratory disease and is linked
10 to other chronic diseases.

11 As such, it offers relatively
12 near-term, low-risk, high-confidence prospect of
13 cleaner air, reduced morbidity and mortality, and
14 the associated spiral of reversing, in part, the
15 rising health care costs to the states and
16 individuals and for business.

17 Delaware Interfaith Power and Light
18 supports the science and deployment of the
19 technology as soon as possible to begin the
20 collective, practical learning, iterative learning
21 which the science recommends. Don't delay, it says.
22 Act now and learn from doing. It's a better
23 process.

24 What the science finds is this:



1 Offshore wind is an immediate public health
2 co-benefit. Clean, nonpolluting power is
3 immediately prudent as a matter of public health,
4 according to the recent DNREC Conference of Human
5 Health. Some of us went to it.

6 Nationwide, clean power would prevent
7 900,000 asthma attacks and other respiratory
8 illnesses, 300,000 missed work and school days
9 annually, and 3,600 premature deaths annually by
10 2030, fewer sick kids, less expensive hospital
11 visits, totaling \$14 to \$34 billion.

12 So always put that into perspective.
13 When you hear how much things cost, you always want
14 to ask how much it costs not to do it.

15 Clean energy -- this is the clean
16 energy resource of choice for Delaware. Offshore
17 wind is a natural resource of choice to power
18 Delaware's urgently necessary transformation into a
19 clean, decarbonized power paradigm so Delaware can
20 do its part to stop the greenhouse gas pollution
21 that the Congressionally-mandated science reports
22 will continue to only get worse.

23 That's the localized flooding of
24 Savannah Road and all along the coast. We can't



1 live and survive here without changing this. Some
2 people will tell you that's not so. And they won't
3 be around when the reality is here. They have no
4 knowledge to stand on.

5 Go to the Congressionally-mandated
6 science, the law signed by George Bush, Sr.

7 MS. VEST: Sir, I'm sorry. Your
8 three minutes are up.

9 (Applause)

10 MS. VEST: But your comments are
11 here.

12 MR. MATEYKO: I appreciate that. So
13 will you allow other folks like myself to come back
14 and complete as we go around?

15 MS. VEST: We will see how much time
16 we have.

17 MR. MATEYKO: I would ask you to
18 seriously --

19 MS. VEST: It is submitted on the
20 record.

21 MR. MATEYKO: That's not quite the
22 same. This is a failed process, really. It's far
23 too short to cover the salient points.

24 MS. VEST: Thank you, sir. Bill



1 McMurray.

2 MR. NOYES: Before we continue, um,
3 did he give you anything?

4 MS. VEST: Yes.

5 MR. NOYES: Let me just reiterate.
6 And I apologize. We are trying to fit people in in
7 a jammed process.

8 MS. VEST: Four pages.

9 MR. NOYES: Everything submitted goes
10 on the website so that everybody can see what you
11 are submitting.

12 Now, I had a question during the last
13 comments of who wants a sign-in sheet. (Walking
14 around room)

15 MR. KING: I just had a question
16 about fishing. Are you going to be able to fish
17 next to these structures? There is a lot of things
18 coming out here.

19 MR. NOYES: Can we talk about that
20 later?

21 UNIDENTIFIED SPEAKER: His question
22 is valid. We would like to hear the answer to it.

23 (Many people in the public began speaking
24 at the same time from their seats, and no individual



1 speaker was audible to the reporter.)

2 MR. NOYES: You can answer that?

3 MR. KHAN: Again, my name is Jamil
4 Khan. My colleague, who actually works in
5 environmental permitting for this project. Her name
6 is Stephanie Wilson.

7 MS. WILSON: So with Block Island,
8 for example --

9 UNIDENTIFIED SPEAKER: Can you go up
10 front and talk? We can't hear you.

11 MS. WILSON: So there will be no --
12 we are not allowed to prevent any sort of access to
13 the area. So you will be able to fish for the area
14 with what you are comfortable with.

15 That's -- there is no limitations to
16 access the area. The Block Island, for instance,
17 there was a short safety zone established during
18 construction only where basically, you know, there
19 were some smaller areas that were restricted, you
20 know, because we have these big vessels in there
21 putting foundations in. But that was a matter of a
22 few weeks.

23 But, aside from that, there is no
24 plan to restrict access to the area.



1 THE REPORTER: Will you say your
2 name, please?

3 MS. WILSON: Stephanie Wilson with
4 Deepwater.

5 MR. NOYES: All right.

6 MS. VEST: Thank you, Stephanie.
7 Moving back to the sign-in sheets, Bill McMurray.

8 MR. MCMURRAY: I apologize if I'm too
9 loud, but (laughter) I am a practicing baritone in
10 time for Christmas, so that's why I'm projecting.

11 My comments were kind of addressed to
12 the committee, itself, as they are making a
13 decision, because I've had the privilege of coming
14 to most of the workshops and listening to things.

15 And sometimes things look like wind
16 power off the shores of Delaware is going to be a
17 great thing for us. And then sometimes, and a
18 couple minutes later, it looks like it might not be
19 a great thing. And I feel glad that I am not on the
20 committee to make this decision.

21 So I wanted to address them that as
22 they gather to make the facts on their decision,
23 which will augment the future of offshore wind, no
24 doubt they have been besieged like some of us with a



1 plethora of all these facts and figures.

2 Like those who are against wind power
3 have data that is cherrypicked to elevate their
4 argument. Those for wind power also have data
5 that's cherrypicked to persuade their point of view.

6 In many ways, I've noticed that's how
7 all great decisions get made. We arm ourselves with
8 what we consider solid reasoning. But in the long
9 run, we all have exact capacity to predict the
10 future, which is none.

11 In a way, it makes your role in this
12 endeavor very similar to a parent's setting up for
13 their children's future. You can only do your best,
14 but it's really up to events of the future to
15 determine their outcome.

16 Driving down here I was pondering
17 what facts and realizations to top those I have
18 already heard, which might make a difference. And
19 then I feared it would be like scattering a little
20 extra grains of sugar on top of a cake. It would
21 barely have any affect at all.

22 So, instead, I will take my time
23 tonight to tell a story, an overview of how I see
24 the committee should go about this.



1 And I was looking around. Some of
2 you may remember Bill Vaughn from Dover, who was at
3 many of your fundraisers. Rest in peace now.

4 Well, once this young whippersnapper
5 was trying to persuade him to invest in these
6 investments in China and the far east. And I could
7 tell he was balking. He was a lot older than I was.

8 So, as a youngster, I thought it
9 would be brilliant on my part to ask him what he
10 thought a good investment strategy was. And he
11 says, without hesitation, he says, "I buy Coke when
12 it's low in the winter, and I sell it when it's high
13 in the summer. And I have been doing it 30 years,
14 and it has never failed me once."

15 So, as I was trying to dissect that,
16 I took the defensive. And he came at it and said,
17 "Young man, sometimes you just want to own something
18 that makes people feel good, like Coca-Cola."

19 Well, I was young. It didn't hit me
20 then. But, now, as you go and you look over all
21 your financial dealings and all your career moves,
22 they kind of like fade away, and you don't really --
23 you may mention it once or twice. But what's really
24 important is weddings, birth of grandchildren,



1 saying goodbye to old friends who can't hang on as
2 long as you.

3 That's the meaning of life, not
4 whether you make 20 percent versus 19.5, because the
5 money evens out over all. But the things that we do
6 as human beings are what really matter.

7 And when you rate your life,
8 sometimes owning something that makes people happy,
9 like Coca-Cola, makes you feel good about yourself.

10 95 percent of Delawareans wanted
11 offshore wind, and that's 950,000 of us. Of course,
12 it also means there are 50,000 people who don't.
13 And if you gather that 50,000 all together, it can
14 be an intimidating group to go against.

15 But, remember, there are more of us
16 praying that this might go through than there are
17 that it doesn't. The big thing is, when you flip on
18 the lights, you kind of want to feel good that some
19 of that electricity that you are paying came from
20 something that didn't create carbon dioxide, some of
21 that came from something that doesn't create
22 pollution that causes cancer, asthma, COPD.

23 You want to feel good about what you
24 are using. Delawareans do have that right to feel



1 good.

2 And I ask that, when you are making
3 your decision, that you decide in the lines of what
4 is best for all of Delaware. Thank you.

5 (Applause)

6 MS. VEST: I'm going to ask for some
7 of the maybes and probablies now. If you want to,
8 fine. If not, that's cool, too.

9 MR. NOYES: Mr. Collins, did you have
10 anyone signing up? Um, we have Representative
11 Collins.

12 MS. VEST: Okay. Representative
13 Collins, do you want to go ahead and go?

14 REPRESENTATIVE COLLINS: There is
15 somebody ahead of me first.

16 MS. VEST: She already went. It's a
17 duplicate.

18 REPRESENTATIVE COLLINS: Well, folks,
19 I am Richard Collins. And I am the State
20 Representative for the 41st District, which is the
21 southern bottom part of Sussex County.

22 And these kinds of things do
23 frustrate me. Let me tell you a little about the
24 history of electricity in Delaware. You all



1 remember deregulation? Some of you may not have
2 been here long enough.

3 Several years ago, quite a few years
4 ago, we deregulated electrical power rates in
5 Delaware. Part of that deal -- and I'm not an
6 expert on it -- but they put in a seven-year price
7 control.

8 Now, this happened to be at a time
9 when electricity price, oil prices, were going up
10 dramatically. So you would have thought our
11 electric prices would have gone up, too. But they
12 didn't, because we had price controls. But nobody
13 knew it. At least I didn't.

14 So my wife, frankly, kept hounding me
15 to put in central air so that we could use less
16 electricity. I said, "Why would we do that? Look
17 at how little we are paying."

18 But lo and behold, that expired.
19 That period expired right in the heart of an
20 absolute oil price catastrophe. So, suddenly, there
21 were outrageous increases in the price of
22 electricity.

23 That caused your legislators -- and I
24 wasn't there then -- but that caused them to act.



1 And what did they do? Everything wrong they could
2 possibly do since then. (Laughter)

3 They set up something called Regional
4 Greenhouse Gas Initiatives. And what it was
5 designed to do is lower carbon dioxide in Delaware
6 from being produced in Delaware. It did a little
7 bit.

8 But the economy and the change to
9 natural gas did dramatically more. All that
10 fracking, that bad fracking, that drove CO2 down
11 like you cannot believe.

12 We hit our goals on RGGI years ago.
13 But, no, we are going to keep right on doing it,
14 even though it drives your costs up.

15 What it has done -- and, Dave,
16 correct me on this if I'm wrong -- it has allowed
17 the sustainable energy utility to create a slush
18 fund with tens of millions of dollars in it being
19 controlled by politicians.

20 And I don't mean by government like
21 in the House and Senate. I mean by individual
22 politicians who have their fingers on tens of
23 millions of dollars paid in by ratepayers that never
24 needed to be paid in in the first place. And you



1 will be hearing a lot more about that in the months
2 to come.

3 We also did the Bloom deal, which has
4 been absolutely catastrophic. We have obligated
5 ourselves to spend tens of millions of dollars out
6 of the ratepayers' pockets for benefits that have
7 never materialized.

8 And, if you remember, for these
9 things that now we find out create hazardous waste
10 that we never heard about when all this went down.

11 So now here we are in a -- oh, oh,
12 and back after deregulation went away and the price
13 explosion, the State went out and advertised. They
14 wanted bidders for power plants.

15 In the end, the only one that got any
16 real consideration was Bluewater Wind, and that fell
17 apart, because it was absolutely not economically
18 sustainable. So now we are about to --

19 MS. VEST: Sir, I'm sorry.

20 REPRESENTATIVE COLLINS: I'm just
21 about done.

22 We are about to add this thing that
23 will not reduce the need for power plants at all.
24 Because on your hottest days and your coldest days,



1 the wind doesn't below.

2 So when it gets down to five degrees
3 some night in the middle of winter, all the fuel
4 power plants will be running full capacity. And on
5 that hottest day in the summer when there is not a
6 breath of wind, they will all be running to power
7 your air conditioning.

8 It doesn't reduce a need for them at
9 all. A lot of the cost and efficiency is right
10 there. Thank you.

11 MS. VEST: Thank you, sir.

12 (Applause)

13 MS. VEST: Again, I'm moving into the
14 probably/maybe territory here. Walt Trela, Trela?

15 MR. TRELA: I am going to pass.

16 MS. VEST: Okay. Thank you, sir.

17 Roy Messmen?

18 MR. MESSMEN: I'm going to pass, too.

19 MS. VEST: Thank you, sir. Robert
20 Gage?

21 MR. GAGE: Yeah, I will speak
22 briefly, only because it hasn't been mentioned
23 really much here before.

24 I'm Robert Gage. I live at Kings



1 Grant Condominium. I'm on the board of the
2 condominium. And while we are all for clean energy,
3 I couldn't be more for clean energy, we want to make
4 sure that the, if these turbines are built out in
5 the water, they are far enough out that it is not
6 visible from the land even from the large apartments
7 such as Sea Colony.

8 Tourism, of course, as was mentioned,
9 is very important to the Delmarva Peninsula. It's
10 very important to our home ownership. So we care
11 about what it looks like from the shore, that you
12 can't see it.

13 And particularly, I have no idea, but
14 at nighttime that it doesn't somehow start polluting
15 the night sky which, of course, is also a big issue.

16 Lastly, we have no idea how the power
17 comes into the land, but it must be done in a way
18 that is not no big power lines running into the
19 land. I assume that is not a part of it.

20 But I just want the working group to
21 take these concerns into account. That's it.

22 MS. VEST: Thank you, sir.

23 (Applause)

24 MS. VEST: At this juncture, we have



1 hit everybody on ten-plus pages of sign-in sheets
2 who indicated either yes, possibly, maybe, or
3 probably.

4 Is there anybody that either has
5 changed their mind from a hard no to a soft yes or
6 anybody that maybe just came in and didn't get a
7 chance to sign in?

8 If so, you can raise your hand, and I
9 can acknowledge you from the front. Did I miss
10 somebody?

11 Can you say your full name for the
12 court reporter?

13 MS. RAM: Yes. Hi. I'm Bonnie Ram
14 from the University of Delaware. I wasn't planning
15 on speaking, because I thought there are so many
16 citizens here that I wouldn't take time to speak.
17 Can you hear me now?

18 UNIDENTIFIED SPEAKER: Yes.

19 MS. RAM: Yes? But I just want to
20 say thanks to the State for having this meeting. I
21 think there should be many, many more of these
22 meetings.

23 What I wanted to find out, I have
24 been working on offshore wind since 2001. I just



1 want to know how many people have actually seen a
2 wind turbine? (People raising hands)

3 Excellent. How many people have
4 actually seen an offshore wind turbine? (People
5 raising hands) About a third. How many people have
6 seen a wind turbine not in Lewes. (Laughter.
7 People raising hands.) Pretty good.

8 So I think that's what we need to
9 talk about: How many people have actually seen
10 these structures? What does the structure look
11 like? What does it look like in Europe, for
12 example, where they have got thousands and thousands
13 of megawatts of wind turbines?

14 So I just wanted to say to some of
15 the skeptics that have raised some serious concerns,
16 which I think should be addressed and discussed, it
17 makes all the Europeans look pretty stupid, since
18 they have a very large offshore wind industry with
19 thousands and thousands of jobs.

20 There is many statistics on the
21 Internet for people to see. And I think it's an
22 education for all of us, and it's an exchange,
23 because it's something new. We don't know what it
24 is. Maybe we have seen it. It's not in our



1 community. We don't know what it will be for our
2 electricity. Some of us believe in climate change;
3 some of us don't. Some of us are adamant about
4 carbon; some of us aren't.

5 But maybe there is something about
6 the economic development of these projects that
7 really Delaware has so few choices -- that is one
8 thing we have learned -- as we study economic
9 development choices in Delaware, you have a lot of
10 poultry farms, and you have a big agricultural
11 sector, and you have tourism.

12 So what is the next step? And we are
13 all struggling with that. And so I would just
14 encourage everybody to try and at least keep your
15 mind open about the possibilities, and let's see if
16 the State can come up with some additional
17 engagement process so that we can have these
18 discussions.

19 And as far as the environmental
20 process goes, I think there is a lot of questions
21 that we have. But a lot of questions have been
22 answered in Europe.

23 So we are down to a very few
24 questions that really need to be addressed. And so



1 I think we can all engage in that. And scientists
2 are right down the street, which is why I felt
3 obligated to talk.

4 Many people have a lot of information
5 that is available. So, if you have any questions,
6 first ask Tom. But then, after that, Tom has access
7 to a lot of scientists and analysts that are both
8 not necessarily advocates of offshore wind, but are
9 involved in the science and know a lot.

10 So there is some uncertainties, but
11 there is many, many answers. So I encourage
12 everybody, if you are really interested and you
13 bothered to show up, to please look for some of that
14 information yourselves. Thank you.

15 (Applause)

16 MS. WILLIAMS: I know you said just
17 ask questions privately, but I think maybe I should
18 mention this very quickly. And that is --

19 MS. VEST: Can you say your full name
20 for the court reporter?

21 MS. WILLIAMS: Trisha Williams, the
22 usual spelling.

23 Okay. Mr. Khan was saying that there
24 would be a federal permit approval process that he



1 expected to be done by 2020.

2 Um, I'm a little hesitant about what
3 the situation is with the federal government and
4 giving approvals for these sorts of things. So I
5 thought I would mention that.

6 And the other thing was originally
7 the -- what's it, Bluewater Wind -- was supposed to
8 do an 11.5-mile from shore wind farm for Delaware.
9 And I was wondering if that could be also built 11
10 and a half miles out for Delaware, if that would be
11 considered as a separate wind farm that would supply
12 to Delaware.

13 So that's the two things.

14 MS. VEST: Thank you, ma'am.

15 (Applause)

16 MR. NOYES: Yes.

17 MR. TRELA: May I reclaim my
18 opportunity?

19 MS. VEST: Certainly.

20 (Laughter)

21 MR. TRELA: Thank you. I just want
22 to respond. Walt Trela. My name is Walt Trela.

23 Okay. I'm a fairly recent resident
24 of Delaware, okay, moving down from Maryland. I



1 lived up there for about ten years.

2 One interesting thing is while we
3 were living in Maryland and going to a meeting on
4 the offshore wind projects that they were trying to
5 work with at that time, and the governor was saying,
6 "You know what? Delaware is way ahead of us. We
7 have got to do something to catch up."

8 Now I'm in Delaware, and what I'm
9 hearing is Maryland is way ahead of us, and we have
10 to do something. (Laughter)

11 So somebody has got to start moving.

12 But I would like to relay one -- this
13 is relative to the what's visible and whether or not
14 it's aesthetically pleasing. Okay?

15 I don't know how many of you have
16 ever been down to Assateague Maryland State Park,
17 but there on the walk from the parking lot over to
18 the beach is a kiosk which has some pictures of --
19 two pictures which are panoramic, and they show the
20 beach, the water, and some of the sky.

21 And I happened to be there just last
22 July or August. And there was a young man about 30
23 who had two little kids with him, and he was
24 standing there in front of these two panoramic



1 pictures going back and forth for several minutes.
2 And he finally says, "I don't see what's going on."

3 So, as he started walking away, I
4 said, "Excuse me. I think you just made the point
5 that they are trying to make, and that is if you
6 look very, very carefully on the horizon, you will
7 see these tiny little sticks. Okay? Those are the
8 windmills. Okay?"

9 So they are not that big of an eyesore.

10 Anyhow, he made the point for me and for
11 himself. Okay?

12 It's probably pretty obvious I'm in favor
13 of the renewables. Thank you very much.

14 (Applause)

15 MR. NOYES: Yes.

16 MS. NALLE: I just -- what is the
17 procedure for questions again? I just -- I do have
18 a couple of questions? Do I e-mail them?

19 MR. NOYES: We will take some
20 questions. And if we don't have answers, we will
21 arrange to get answers to you.

22 MS. NALLE: Okay. My question was --

23 MS. VEST: Could you state your name
24 for the record first? Sorry.



1 MS. NALLE: Liz Nalle.

2 UNIDENTIFIED SPEAKER: Stand up! Can
3 you stand up?

4 MS. NALLE: Liz Nalle, N-A-L-L-E.

5 And my apologies. This is the first one of these
6 meetings I have been to, so maybe this has been
7 answered before.

8 I would like to know what
9 environmental impact studies have been done and what
10 sort of mitigation is being done to both migratory
11 birds -- and the noise from construction level only
12 lasts a couple weeks, so that's not as big a
13 problem -- but vibration damping from the turbines,
14 and what's been doing -- what's going to be done to
15 protect marine mammals.

16 I would imagine Mr. Fisherman has the
17 same concerns. How are migratory birds going to be
18 affected, and how are marine mammals and animals in
19 general going to be affected? So that's all.

20 MR. NOYES: All right. I'm going to
21 take a minute, and I'm going to give you a brief
22 answer.

23 MS. NALLE: All right.

24 MR. NOYES: And then you can follow



1 up through the website.

2 The two projects have to do two major
3 filings with the federal government, which owns the
4 sites. These are in federal waters.

5 One is called a site assessment plan,
6 and then the second is a construction and operations
7 plan.

8 All the things you asked about have
9 to be reviewed. We have the second piece of that
10 answer. We have several environmental organizations
11 represented on the working group. Well, here.

12 MS. NALLE: Which ones?

13 MR. NOYES: National Wildlife
14 Federation.

15 MS. NALLE: Okay.

16 MR. NOYES: Delaware Nature Society.
17 And oh, where is he there? American Birding
18 Association.

19 The American Birding Association is
20 headquartered in Delaware. And so we have had some
21 conversations, and they have been pointing us to
22 some resources, including studies about bird
23 migration route and where birds tend to fly in this
24 area.



1 And the short answer is they tend to
2 show up closer to shore than farther out from shore.

3 MS. NALLE: Okay.

4 MR. NOYES: That's the short answer.
5 There are studies that can give you much longer
6 answers. We are going to be possessing stuff on the
7 website.

8 MS. NALLE: Excellent. Okay.

9 MR. NOYES: Yes?

10 MS. SIMMERS: I hope this is good
11 enough. My name is Claire Simmers, like pot on a
12 stove. (Laughter)

13 I think in these presentations, which
14 were very helpful to us and everyone, is that
15 perhaps in your thoughts with the commission and the
16 study group, that it seems to be making it a
17 regional issue. Because already from the Maryland,
18 that's already off and visible from the shoreline of
19 Delaware.

20 MR. NOYES: Uh-huh.

21 MS. SIMMERS: And Cape May will
22 probably be the same thing. So I guess I would just
23 encourage the possibility of looking at some sort of
24 regional conversation to kind of plan how this might



1 be rather than just kind of, you know, everyone
2 rushing and saying, okay, well we are going to do
3 this and this and this, just some sort of
4 coordination, because it seems like it's already
5 impacted the Delaware shore.

6 MR. NOYES: Fair question. A couple
7 of quick answers, again. The offshore wind areas,
8 if you remember the map I showed you --

9 MS. SIMMERS: Yes.

10 MR. NOYES: Those are all governed,
11 managed by the federal government.

12 MS. SIMMERS: Yep.

13 MR. NOYES: We were on the phone
14 today with the federal government about further
15 conversations on how to manage these sites.

16 The second piece is that little old
17 Delaware -- I think some people mentioned that --
18 has only so much buying power, and that other states
19 have more buying power.

20 So that, just as these first two
21 companies are interested in talking to us, we are
22 interested in talking to other companies that might
23 locate north or south of us.

24 So that's a second way where the



1 interstate coordination might come into play.

2 That all is to be determined by the
3 working group, but I'm just suggesting that's two
4 possible answers. Other questions?

5 MR. BRETT: Tom Brett. Has your
6 division or another department of Delaware been
7 considering solar energy in the same capacity as you
8 currently are the wind? And, if not, why not?

9 MR. NOYES: Delaware has a renewable
10 energy portfolio standards that has a target of
11 25 percent by 2025.

12 Three and a half percent of that is
13 solar. Every year, we get a little closer.

14 In the last eight or nine years --
15 and I don't have the figures right in front of me,
16 Delaware -- solar power located in Delaware has gone
17 from about 2.3 megawatts to more than 90 megawatts.

18 And that's of all scales, ranging
19 from a few kilowatts on somebody's roof. And we
20 have 3,000 or 4,000 -- I forget how many. We have
21 several thousand small projects ranging up to
22 several large projects, 5 megawatts, 10 megawatts,
23 15 megawatts.

24 So, yeah, we have been doing that.



1 Yes?

2 MR. HOECHNER: Joe Hoechner,
3 H-O-E-C-H-N-E-R, from Lewes.

4 All of your wind turbines will be
5 tied together on the water with the grid. And the
6 power produced will come into land on one cable
7 (inaudible) I assume.

8 Will that be tied into the Delaware
9 grid, or will you be sending it down to Maryland?
10 I'm wondering where the landing point will be for
11 the main cable?

12 MR. NOYES: Here is what we know at
13 this point. US Wind plans to run a cable through
14 Indian River Inlet underground, underwater, and to
15 connect right next to the Indian River Power Plant.

16 Deepwater Wind, the Skipjack project,
17 is working on that, and I don't have an answer for
18 you.

19 MR. HOECHNER: Okay. But that's
20 tying into the existing grid of Indian River?

21 MR. NOYES: Yes.

22 MR. HOECHNER: Okay. Thank you.

23 MR. NOYES: Yes?

24 MS. HARPER: Sue Claire Harper from



1 Rehoboth Beach. I am in favor of wind power.

2 But the question one of the speakers
3 raised about the concerns about an oil spill, let's
4 say a tanker hits one of the turbines, could you
5 speak about what the regulations are in the
6 relationship of the location of the turbines to the
7 established shipping lines?

8 And I guess I would like some more
9 objective information about the reality of that
10 concern.

11 MR. NOYES: All right. Here is what
12 I can tell you: Again, the shipping channel and the
13 offshore wind areas are governed by the federal
14 government.

15 You see this sort of lane in between
16 here? That's the shipping lane. The offshore wind
17 areas are designed to straddle that. So that's what
18 the federal government has done about that.

19 MS. HARPER: Could you specifically
20 cite what distance? It's hard to project from
21 looking at the map.

22 MR. NOYES: Okay. I'm looking for a
23 distance. Um, let's do -- how far, Deepwater, how
24 far is the closest -- is that distance there to your



1 site off of Rehoboth Beach, just a benchmark?

2 MR. KHAN: 18 miles.

3 MR. NOYES: So this is 18 miles?

4 MR. KHAN: The yellow.

5 MR. NOYES: No. My two fingers,
6 that's about 18 miles?

7 MR. KHAN: About 18 miles.

8 MR. NOYES: Yeah, so this is less
9 than 18 miles, but more than a mile. (Laughter)

10 UNIDENTIFIED SPEAKER: It looks like
11 about 9 miles?

12 MR. NOYES: How many?

13 UNIDENTIFIED SPEAKER: It looks like
14 about nine.

15 MR. NOYES: Okay. That's the
16 shipping lane. And there is another one north of
17 the Deepwater wind site that runs east/west.

18 What I can tell you is this and
19 everything else that we hear from or present to the
20 public is up on the website.

21 So if somebody wants to look at this
22 presentation, this presentation will go up on the
23 website, hopefully tomorrow, maybe not until
24 Thursday. But it will go up there, and you can



1 access this yourself.

2 And if you want more information, the
3 Bureau of Ocean Energy Management is the
4 organization that is part of the Interior Department
5 that identifies these sites and controls and
6 regulates those sites.

7 MS. HARPER: I'm not surprised that
8 you can't answer my question, with all due respect.

9 I assumed there was some federal
10 standards that established the distance between
11 where turbine, as in Europe, the turbines and the
12 shipping lines. Is there not? I was under the
13 impression it was two miles. I was hoping you were
14 going to give me that answer to my question.

15 MR. NOYES: I'm not going to feed you
16 back an answer I don't have, but I am referring you
17 to the agency that regulates that.

18 MS. HARPER: Can I -- (inaudible)

19 (At this time many people in the public
20 start speaking simultaneously and conversing amongst
21 themselves, and no individual comment is
22 distinguishable to the reporter. The reporter tells
23 the hearing officer that she is unable to produce an
24 accurate record of comments at this time.)



1 MS. VEST: Excuse me. I have to
2 interrupt. I don't mean to be rude. But the court
3 reporter can't hear any of this. And we need to
4 make sure that we get an accurate --

5 MS. HARPER: I don't think it's just
6 me. I want the public to be aware of it.

7 MS. VEST: Understood. But if you
8 guys want to engage and respond back, I would ask
9 that you stand up, because she is not getting any of
10 this.

11 Because, at the end of the day, these
12 transcripts from the court reporter will also go on
13 the website. And it's meaningless if there is
14 nothing there.

15 So I'm just trying to make sure we
16 get as accurate a transcript as possible.

17 UNIDENTIFIED SPEAKER: Can you just
18 stand up?

19 MS. WILSON: Yeah, I mean.

20 MR. NOYES: Your name again?

21 MS. WILSON: So Stephanie Wilson with
22 Deepwater Wind. So there is no regulations. There
23 are recommendations.

24 These areas were sited years ago.



1 And it was a mix of all the different uses, so
2 navigation and environmental and, you know, a bunch
3 of that stuff. So they kind of created these areas
4 and sited these areas, you know, in order to
5 minimize conflicts.

6 Now that they have been leased, we
7 now are responsible to, you know, as part of our
8 development, to look deeper, you know, do a deeper
9 dive.

10 And part of what we are looking at on
11 our end and what's required as part of that
12 construction and operation plan that Tom has
13 mentioned is there is a navigational risk
14 assessment.

15 So that's a dedicated study that we
16 do in working with Coast Guard, as well as Pilots'
17 associations and, you know, a bunch of different
18 parties to try to figure out what those risks and
19 impacts are and evaluate them.

20 So, you know, we are in the process
21 working on a few things. But there is no regulated
22 standards as to the distance. There is
23 recommendations, and you can look around a mile.

24 UNIDENTIFIED SPEAKER: (inaudible)



1 that's been going on for several years? The
2 Atlantic?

3 MS. WILSON: Yeah, so the Coast Guard
4 actually has evaluated these areas separately, and
5 there is a study out. It came out, I think, in
6 2016, you know. I can't point you to it.

7 But they have looked at all of these
8 areas individually, and they have kind of made some
9 recommendations based on their shipping lanes and
10 other factors.

11 So, you know, we are working with
12 that information. And that's all I can really tell
13 you at this point.

14 We are still in the process of, you
15 know, working through it. But I know we definitely
16 have our opportunities to kind of engage as we, you
17 know, bring it forward.

18 UNIDENTIFIED SPEAKER: Can she stay
19 up there?

20 MR. NOYES: All right. We have
21 another question.

22 MS. HARPER: Okay. Atlantic Coast
23 (inaudible) study (inaudible)

24 MR. NOYES: Okay. One at a time.



1 You had a question, ma'am?

2 MS. ELLACOTT: Yes. My name is Meg
3 Ellacott, E-L-L-A-C-O-T-T, from Rehoboth. I don't
4 know how to phrase this.

5 God forbid that they do do seismic.
6 The federal government has turned over that there is
7 seismic testing and eventually, again God forbid,
8 drilling. I can hardly say it.

9 My understanding is that it will be
10 20 to 25 miles out. If this ever comes to pass and
11 there is the execution of this, is this like a race?
12 I mean, how, how could this -- no one knows the
13 answer.

14 MS. WILSON: I don't really know that
15 answer.

16 MS. ELLACOTT: But it could happen.
17 Interesting question; right?

18 MS. WILSON: It is. It certainly is
19 something to --

20 MR. NOYES: So the question, just to
21 summarize, is what happens if somehow the federal
22 government goes ahead with allowing offshore
23 drilling? Is that it?

24 MS. ELLACOTT: Right, seismic testing



1 and offshore drilling.

2 MR. NOYES: Seismic testing and
3 offshore drilling. The question is way beyond the
4 offshore wind working group. But I know a lot of
5 people here probably care about that.

6 MS. ELLACOTT: Yes.

7 MR. NOYES: And I don't know what
8 else to say at this point. Are there any more
9 questions?

10 MR. KING: Well, you want to know if
11 there is going to be seismic testing 25 miles off
12 the coast. They have a seismic test for this.

13 MS. ELLACOTT: No, no, I know they
14 don't have a seismic test for this.

15 MR. KING: Actually, they do.

16 MS. ELLACOTT: But it goes down feet
17 versus --

18 MR. KING: Well, it will be a lower
19 profile seismic testing --

20 MS. ELLACOTT: Right.

21 MR. KING: It won't be like a race or
22 anything, if you are worrying about that.

23 MS. ELLACOTT: Well, I'm just
24 thinking about the building of these things and, you



1 know. It's a nightmare.

2 MR. NOYES: Okay. We have a question
3 over here.

4 MS. PECK: Okay. If we are going to
5 have offshore winds, what -- how are they going
6 to -- where are they going to be built, and how is
7 it going to get into the ocean off of Delaware?
8 What portions are being looked at and discussed?

9 MS. VEST: And can you say your name
10 for the record, please?

11 MS. PECK: Mary Peck.

12 MR. NOYES: All right. The Maryland
13 projects require that a lot of the work be staged
14 out of a port, Sparrow's Point, just outside
15 Baltimore, and somehow get over here.

16 I don't know the answer to that.
17 There is a lot of logistics' work that's going to go
18 into that. I'm not sure the companies know entirely
19 how they are going to manage all the logistics, but
20 it's a big job. So that's the short answer. Yes?

21 MR. QUANDT: My name is Charlie
22 Quandt, Q-U-A-N-D-T, and I live in Dewey.

23 THE REPORTER: Can you say it again?

24 MR. QUANDT: Q-U-A-N-D-T. I live in



1 Dewey. And I have a question.

2 Some gentleman mentioned that the
3 lifespan of the rotating machinery is about ten
4 years. Is that accurate?

5 And does that mean you have to take
6 it down and replace it with a whole new machine
7 every ten years, or kind of like change the battery
8 in an electric car?

9 MR. NOYES: I will give you a short
10 answer, and maybe we will ask the companies to give
11 a slightly longer answer.

12 The Maryland projects are -- have
13 20-year contracts. So, presumably, the equipment
14 that they are going to put up will last 20 years.

15 Are there any more questions? We
16 will be happy to have more Q and A face to face as
17 we wrap up.

18 I want to thank everyone for being
19 here. I want to emphasize again that this is not
20 the end of public engagement on this issue.

21 We have a working group that's going
22 to issue a progress report this month. And not all
23 the questions that everybody has will be answered
24 this month. And we will have more public engagement



1 in sessions up and down the state. And -- one
2 moment -- and we will continue to accept comments in
3 writing. Yes?

4 MR. MONETTI: Just a quick question.
5 Bill Monetti is my name.

6 How much less energy would the Indian
7 River Plant have to produce if this wind farm does
8 take place? How much less coal? How much less?

9 MR. NOYES: Okay. The question is
10 what would the affect be on Indian River Power Plant
11 and on the grid, as I understand your question.

12 MR. MONETTI: Right. Right.

13 MR. NOYES: On the grid, itself,
14 there is capacity to handle several hundred
15 megawatts of offshore wind at that point without
16 having to shut down the Indian River Power Plant.

17 So the question, the related
18 question, is how does that affect the economics of
19 the grid.

20 That's a different question. We are
21 not -- I can't answer you, because I don't own any
22 of these generating facilities.

23 MR. MONETTI: How much less coal will
24 they burn, I think would be a good, just a --



1 MR. NOYES: That depends on the
2 market several years from now.

3 MR. MONETTI: Okay.

4 MR. NOYES: But there is room on the
5 grid for both kinds of energy --

6 MR. MONETTI: Okay.

7 MR. NOYES: -- is the short answer.
8 All right?

9 MR. BOOTH: One more question just to
10 his. There is a date out there with the Delmarva
11 Power Plant that it's supposed to be shut down; is
12 there not?

13 MR. NOYES: On which power plant.

14 MR. BOOTH: The Indian River coal
15 plant.

16 UNIDENTIFIED SPEAKER: Which burns
17 coal, for the most part.

18 MR. NOYES: The Indian River coal
19 plant has a permit to operate at about
20 400 megawatts.

21 Several of the older units were shut
22 down several years ago. They put the -- DNREC
23 required new controls on that plant, and the plant
24 is operating under a current permit. I don't know



1 anything about a date to shut it down, because it
2 has a current permit.

3 THE REPORTER: Sir, can I have your
4 name?

5 MR. BOOTH: George Booth, B-O-O-T-H.

6 THE REPORTER: Thank you.

7 UNIDENTIFIED SPEAKER: Thank you.

8 MR. NOYES: Thank you.

9 (Applause)

10 MS. VEST: Thank you, everyone, for
11 coming out tonight. Feel free to contact the people
12 in the front for additional questions. We are
13 adjourned.

14 (Concluded at 7:33 p.m.)

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CERTIFICATE

I, Lorena J. Hartnett, a Notary Public and Registered Professional Reporter, do hereby certify that the foregoing is an accurate and complete transcription of the proceeding held at the time and place stated herein, and that the said proceeding was recorded by me and then reduced to typewriting under my direction, and constitutes a true record of the testimony given by said witnesses.

I further certify that I am not a relative, employee, or attorney of any of the parties or a relative or employee of either counsel, and that I am in no way interested directly or indirectly in this action.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal of office on this 7th day of December 2017.



Lorena J. Hartnett
Registered Professional Reporter

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