

**In The Matter Of:**  
*Candlewood Solar, LLC, Petition for a Declaratory  
Ruling*

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*Administrative Hearing  
October 31, 2017*

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*BCT Reporting LLC  
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STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

Petition No. 1312

Candlewood Solar, LLC, Petition for a Declaratory  
Ruling That no Certificate of Environmental  
Compatibility and Public Need is required for the  
Proposed Construction, Maintenance and Operation of a  
20 Megawatt AC (26.5 megawatt DC) Solar Photovoltaic  
Electric Generating Facility Located on a 163 Acre  
Parcel at 197 Candlewood Mountain Road and Associated  
Electrical Interconnection to Eversource Energy's Rocky  
River Substation on Kent Road in New Milford,  
Connecticut

Administrative Hearing Held at The  
Connecticut Siting Council, 10 Franklin Square,  
New Britain, Connecticut, on October 31, 2017,  
beginning at 11:00 a.m.

H e l d   B e f o r e :

ROBIN STEIN, Chairman

1       A p p e a r a n c e s:

2               Council Members:

3                       JAMES J. MURPHY, JR.

4                       Vice Chairman

5

6                       ROBERT HANNON,

7                       DEEP Designee

8

9                       LARRY LEVESQUE, ESQ.

10                      PURA Designee

11

12                      MICHAEL HARDER

13                      ROBERT SILVESTRI

14                      DANIEL P. LYNCH, JR.

15

16               Council Staff:

17                      MELANIE BACHMAN, ESQ.,

18                      Executive Director and Staff Attorney

19

20                      MICHAEL PERRONE,

21                      Siting Analyst

22

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1     A p p e a r a n c e s:(cont'd)

2     For the Petitioner (Candlewood Solar, LLC):

3             MICHAUD LAW GROUP, LLC  
4             515 Centerpoint Drive, Suite 502  
5             Middletown, Connecticut 06457

6                     By: PAUL R. MICHAUD, ESQ.

7

8     For the CONNECTICUT DEPARTMENT OF AGRICULTURE:

9             Connecticut Department of Agriculture  
10            450 Columbus Boulevard  
11            Hartford, Connecticut 06103

12                    By: JASON BOWSA

13

14     For the TOWN OF NEW MILFORD:

15             Town of New Milford  
16             10 Main Street  
17             New Milford, Connecticut 06776

18                    By: REBECCA L. RIGDON, ESQ.

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1           THE CHAIRMAN: Good morning, ladies and  
2 gentlemen. I'd like to call to order the meeting  
3 of the Connecticut Siting Council today, Tuesday  
4 October 31, 2017, at approximately 11 a.m. My  
5 name is Robin Stein, Chairman of the Connecticut  
6 Siting Council.

7           This evidentiary session is a  
8 continuation of a public hearing held on  
9 September 26, 2017, at the Roger Sherman Town Hall  
10 in New Milford. It's held pursuant to the  
11 provisions of Title 16 of the Connecticut General  
12 Statutes and of the Uniform Administrative  
13 Procedure Act upon a petition from Candlewood  
14 Solar, LLC, for a declaratory ruling that no  
15 certificate of environmental compatibility and  
16 public need is required for the proposed  
17 construction, maintenance and operation of a  
18 20 megawatt solar photovoltaic electric generating  
19 facility located on 163-acre parcel at 197  
20 Candlewood Mountain Road and associated electrical  
21 interconnection to Eversource Energy, Rocky River  
22 Substation on Kent Road in New Milford,  
23 Connecticut.

24           The petition was received by the Council  
25 on June 28, 2017. A verbatim transcript will be

1 made of the hearing and deposited at the New  
2 Milford, Brookfield and New Fairfield Town Clerk's  
3 offices for the convenience of the public. We  
4 will proceed in accordance with the prepared  
5 agenda, copies of which are available near the  
6 door I believe.

7 I wish to call your attention to those  
8 items shown on the hearing program marked as Roman  
9 numerals 1D, items 1 through 123.

10 Does the petitioner or any party or any  
11 intervener have any objection to the addition to  
12 items 20, 62, 63, 78 79 and 101 that the Council  
13 has administratively noticed?

14 MR. MICHAUD: No.

15 THE CHAIRMAN: Hearing and seeing none,  
16 we will notice those existing documents.

17 We're going to continue with the  
18 appearance of the petitioner Candlewood Solar,  
19 LLC. I believe you have a new witness to be sworn  
20 in. Is that correct?

21 MR. MICHAUD: Yes, Chairman Stein.

22 THE CHAIRMAN: So will the new witness  
23 please rise? And Attorney Bachman will swear you  
24 in.

25

1 P A T R I C I A F O S T E R ,

2 called as a witness, being first duly sworn  
3 by the Executive Director, was examined and  
4 testified under oath as follows:

5  
6 B R I A N B U T L E R ,

7 R O B E R T B U K O W S K I ,

8 J O E L L I N D S A Y ,

9 J A M E S W A L K E R ,

10 recalled as witnesses, having been previously  
11 sworn by the Executive Director, were examined and  
12 testified under oath as follows:

13  
14 THE CHAIRMAN: Thank you. And I  
15 understand you have submitted new exhibits, Roman  
16 numeral 2, item B-11 through 18.

17 MR. MICHAUD: Yes, Chairman Stein. We  
18 have eight exhibits for identification purposes.  
19 I will read them for the record. Exhibit 11 will  
20 be Candlewood Solar, LLC's responses to Council  
21 interrogatories set two with attachments, dated  
22 October 24, 2017.

23 Exhibit 12 is Candlewood Solar LLC's  
24 responses to Council interrogatories set three,  
25 dated October 24, 2017.

1           Exhibit 13 is Candlewood Solar LLC's  
2           supplemental prefiled testimony with attachments,  
3           dated October 24, 2017, and this testimony is for  
4           Joel Lindsay of Ameresco, Robert Bukowski from  
5           Amec Foster and Ms. Patricia Foster for Amec  
6           Foster.

7           Exhibit 14, which is the resume of  
8           Patricia Foster. Exhibit 15 which is the  
9           conservation restriction area map dated  
10          October 24, 2017. Exhibit 16 was the updated  
11          proposed conditions map dated October 24, 2017.

12          October -- excuse me, Exhibit 17 is the  
13          revised response to Council interrogatory number  
14          14 including the phase 1B report dated October 24,  
15          2017.

16          And lastly, Exhibit 18 which is the  
17          Oxbow species account report dated October 20th,  
18          2017. I would submit these exhibits for  
19          identification at this time.

20                 THE CHAIRMAN: Thank you.

21                 And proceed with verification.

22                 MR. MICHAUD: Yes.

23                 So this is directed to the panel. I  
24                 have several exhibits. Some are directed to the  
25                 entire panel. Some are directed to specific

1 witnesses. So for exhibits 11 and 12, this is  
2 directed to the entire panel. And I'm going to  
3 read this question, and each of you can respond.

4 Did you prepare or cause Exhibits 11 and  
5 12 to be prepared?

6 Mr. Walker?

7 THE WITNESS (Walker): Yes.

8 MR. MICHAUD: Mr. Lindsay?

9 THE WITNESS (Lindsay): Yes.

10 MR. MICHAUD: Mr. Bukowski.

11 THE WITNESS (Bukowski): Yes.

12 MR. MICHAUD: Ms. Foster?

13 THE WITNESS (Foster): Yes.

14 MR. MICHAUD: Mr. Butler?

15 THE WITNESS (Butler): Yes.

16 MR. MICHAUD: And do you have any edits,  
17 corrections, changes or additions to these  
18 exhibits?

19 THE WITNESS (Walker): No.

20 MR. MICHAUD: Mr. Lindsay?

21 THE WITNESS (Lindsay): No.

22 MR. MICHAUD: Mr. Bukowski.

23 THE WITNESS (Bukowski): No.

24 MR. MICHAUD: Ms. Foster?

25 THE WITNESS (Foster): Yes.

1 MR. MICHAUD: Okay. Could you please  
2 proceed?

3 THE WITNESS (Foster): Yes. I'd like to  
4 make two updates. Specifically I would like to  
5 note that the letter that was referenced in Siting  
6 Council response 49 to the natural diversity  
7 database was filed, and we have copies of that for  
8 the -- to submit to the Council.

9 I'd also like to note that in my  
10 prefiled testimony I noted that the phase 1B  
11 report would be filed with the Connecticut SHPO.  
12 The cover letter is here and I'd like to file that  
13 with the Council.

14 MR. MICHAUD: Yeah, Mr. Chairman, would  
15 you like me to provide these to the members now,  
16 or wait?

17 THE CHAIRMAN: I guess now. You have  
18 them in your hand. Why not?

19 MR. MICHAUD: Okay.

20 THE CHAIRMAN: Thank you.

21 MR. MICHAUD: You're welcome.

22 And with those changes do each of you  
23 adopt these exhibits as part of your sworn  
24 testimony today?

25 Mr. Walker?

1 THE WITNESS (Walker): Yes.

2 MR. MICHAUD: Mr. Lindsay?

3 THE WITNESS (Lindsay): Yes.

4 MR. MICHAUD: Mr. Bukowski.

5 THE WITNESS (Bukowski): Yes.

6 MR. MICHAUD: Ms. Foster?

7 THE WITNESS (Foster): Yes.

8 MR. MICHAUD: Mr. Butler?

9 THE WITNESS (Butler): Yes.

10 MR. MICHAUD: Okay. Now I'm going to  
11 proceed to Exhibit 13. I'm directing this to  
12 Mr. Lindsay, Mr. Bukowski and Ms. Foster. This is  
13 in your prefiled testimony.

14 Did you prepare or cause Exhibit 13 to  
15 be prepared?

16 THE WITNESS (Lindsay): Yes.

17 THE WITNESS (Bukowski): Yes.

18 THE WITNESS (Foster): Yes.

19 MR. MICHAUD: And do you have any edits,  
20 corrections, changes or additions to Exhibit 13?

21 THE WITNESS (Lindsay): No.

22 THE WITNESS (Bukowski): No.

23 THE WITNESS (Foster): No.

24 MR. MICHAUD: Thank you. And do you  
25 adopt these exhibits as part of your sworn

1 testimony today?

2 THE WITNESS (Lindsay): Yes.

3 THE WITNESS (Bukowski): Yes.

4 THE WITNESS (Foster): Yes.

5 MR. MICHAUD: Okay. And we're going to  
6 move to Exhibit 14. This is directed to  
7 Ms. Foster only.

8 Ms. Foster, did you prepare or cause  
9 Exhibit 14 prepared?

10 THE WITNESS (Foster): I did.

11 MR. MICHAUD: Do you have any edits,  
12 corrections, changes or additions to Exhibit 14?

13 THE WITNESS (Foster): No.

14 MR. MICHAUD: And do you adopt this  
15 exhibit as part of your sworn testimony today?

16 THE WITNESS (Foster): Yes.

17 MR. MICHAUD: Moving to Exhibit 15.  
18 This is directed to Joel Lindsay. Joel,  
19 Mr. Lindsay, did you prepare or cause Exhibit 15  
20 to be prepared?

21 THE WITNESS (Lindsay): Yes.

22 MR. MICHAUD: And do you have any edits,  
23 corrections or changes to this exhibit?

24 THE WITNESS (Lindsay): No.

25 MR. MICHAUD: And do you adopt this

1 exhibit as part of your sworn testimony today?

2 THE WITNESS (Lindsay): Yes.

3 MR. MICHAUD: Thank you.

4 And moving to Exhibits 16 and 17,  
5 directed to Ms. Foster.

6 Did you prepare or cause Exhibits 16 and  
7 17 to be prepared?

8 THE WITNESS (Foster): I did.

9 MR. MICHAUD: Do you have any edits or  
10 corrections to these exhibits?

11 THE WITNESS (Foster): No.

12 MR. MICHAUD: And do you adopt these  
13 exhibits as part of your sworn testimony today?

14 THE WITNESS (Foster): Yes.

15 MR. MICHAUD: And lastly, Exhibit 18 is  
16 directed to Mr. Butler. Mr. Butler, did you  
17 prepare or cause Exhibit 18 to be prepared?

18 THE WITNESS (Butler): I did.

19 MR. MICHAUD: And do you have any edits,  
20 corrections or changes to this exhibit?

21 THE WITNESS (Butler): No.

22 MR. MICHAUD: And do you adopt this  
23 exhibit as part of your sworn testimony today?

24 THE WITNESS (Butler): I do.

25 MR. MICHAUD: Thank you.



1 was a mention of a possible natural gas powerplant  
2 at that site. Do you know the current status of  
3 the plant at that site?

4 THE WITNESS (Lindsay): I believe that  
5 it is not something that is happening at that  
6 site.

7 MR. PERRONE: With that aside, is the  
8 main reason for rejecting that property as a  
9 potential site because of on-site wetlands?

10 THE WITNESS (Lindsay): That is part of  
11 the reason, yes. That's -- in terms of space  
12 there's not space at the site.

13 MR. PERRONE: Okay. All right.

14 In response to council interrogatory 19  
15 to the Department of Agriculture, the Department  
16 of Agriculture briefly mentions the possibility of  
17 rooftop solar. Would rooftop solar be a feasible  
18 alternative?

19 THE WITNESS (Lindsay): No.

20 MR. PERRONE: Is that because of the  
21 size and acreage required?

22 THE WITNESS (Lindsay): Yes.

23 MR. PERRONE: I understand in this  
24 revised configuration the angle of the panels has  
25 changed from 15 degrees to 12 degrees. As you

1           reduce the angle does that reduce the footprint  
2           and allow you to move the panels closer together?

3                   THE WITNESS (Lindsay): Yes, it  
4           contributes to that.

5                   MR. PERRONE: Is that because with the  
6           smaller angle you get less shading?

7                   THE WITNESS (Lindsay): You get less  
8           row-to-row shading, yes.

9                   MR. PERRONE: And while we're on the  
10          topic of row-to-row shading, what would be your  
11          row spacing or aisle spacing between the panels?

12                   THE WITNESS (Lindsay): It will be  
13          approximately six to eight feet.

14                   MR. PERRONE: Okay. And just to be  
15          clear, I'm just talking about the actual open  
16          space, not center to center.

17                   THE WITNESS (Lindsay): That's right.

18                   MR. PERRONE: Okay. Great.

19                   And is that distance the minimum  
20          necessary to allow for access, maintenance and  
21          shading effects?

22                   THE WITNESS (Lindsay): Correct.

23                   MR. PERRONE: Okay. Were you able to  
24          get that distance a little bit smaller with the  
25          reduction in the angle?

1           THE WITNESS (Lindsay): It does allow  
2 for a smaller distance.

3           MR. PERRONE: Also while we're on the  
4 topic of the revised configuration, have you  
5 received any feedback from the Town of New Milford  
6 regarding the revised configuration?

7           THE WITNESS (Lindsay): No.

8           MR. PERRONE: At the last hearing I had  
9 asked about the status of the review of the power  
10 purchase agreement by the Mass Department of  
11 Public Utilities. Do you know the status of such  
12 a review?

13          THE WITNESS (Walker): A docket has been  
14 set up. It was approved by the Department of  
15 Energy Resources, but it's still in the regulatory  
16 process at the Department of Public Utilities.  
17 Under -- and I could give you the docket number,  
18 but I don't have it off the top of my head.

19          MR. PERRONE: That's okay. Do you know  
20 a rough timeline on that review?

21          THE WITNESS (Walker): I don't. The  
22 Department of Public Utilities is -- has several  
23 major rate cases before it including Eversource,  
24 and I'm not sure where that fits in their  
25 procedural schedule.

1           MR. PERRONE: I understand that the  
2 project has proposed to achieve commercial  
3 operation by mid 2019. So in terms of the ISO New  
4 England forward capacity auction, where the  
5 auction happens three years in advance, when would  
6 you anticipate a capacity commitment period  
7 forward?

8           THE WITNESS (Walker): Someone else in  
9 our office is the expert on the capacity markets,  
10 but my understanding -- and I'm guessing at this,  
11 but my understanding is that the capacity auction  
12 is already filled through maybe 2021. So it would  
13 be after that timeframe.

14           It will not be at the time that the  
15 project begins commercial operation, is my  
16 understanding subject to check.

17           MR. PERRONE: And one last item on that  
18 topic, and if you don't know it's okay. I  
19 understand the project is 20 megawatts AC. For  
20 the purposes of the forward capacity auction would  
21 a smaller amount be bid because it's solar and the  
22 solar peak may be different from the system peak?

23           THE WITNESS (Walker): ISO New England  
24 already takes that into consideration. So we will  
25 bid our 20 megawatts, but they derate the project.

1 ISO New England as part -- and as part of their  
2 review of our project, we -- and we don't have  
3 direct contact with ISO New England,  
4 unfortunately, but what we understand is through  
5 Connecticut Light & Power is that they want to  
6 have control over our solar array.

7 So we have just recently changed the  
8 inverters to allow them greater control over -- is  
9 that correct?

10 THE WITNESS (Lindsay): (Nodding  
11 affirmatively.)

12 THE WITNESS (Walker): Over our array so  
13 that it can fit within, and be a resource within  
14 ISO New England for security of power and the  
15 grid.

16 MR. PERRONE: Does the power output of  
17 the solar panels slowly degrade over time as the  
18 panels age?

19 THE WITNESS (Lindsay): A small amount.  
20 There's typically a .5 percent degradation in  
21 performance on an annual basis. That's taken into  
22 account in our modeling of output for the period  
23 of the contract.

24 MR. PERRONE: At the .5 percent, that's  
25 power, or wattage?

1 THE WITNESS (Lindsay): Yes.

2 MR. PERRONE: Okay. And one minor  
3 technical revision. I understand that now you're  
4 at 20 megawatts AC and 24 DC. So your AC and DC  
5 ratio would now be about .83?

6 THE WITNESS (Lindsay): Yes, I'd -- I'd  
7 have to do the math myself, but it's -- that  
8 sounds pretty much correct.

9 MR. PERRONE: Okay. And in the prefilled  
10 testimony of Mr. Lindsay, page 3, dated 10/24, it  
11 notes that 20 megawatts AC is the minimum AC  
12 capacity required under the PPA.

13 So is it correct to say that the  
14 petitioner has no further flexibility to reduce  
15 the footprint because of you're tied to basically  
16 20 megawatts AC?

17 THE WITNESS (Lindsay): Yes.

18 MR. PERRONE: Okay. Does the petitioner  
19 believe that it has minimized the land area  
20 necessary to achieve its capacity target of  
21 20 megawatts?

22 THE WITNESS (Lindsay): Yes, we do.

23 MR. PERRONE: I know before we were  
24 talking about operation of the plant. How would  
25 the plant be shut down in the event of an

1 emergency such as a fire? Would there be a  
2 lockbox, or a key box that emergency responders  
3 could access?

4 THE WITNESS (Lindsay): Yes, there  
5 would, and we would train the emergency responders  
6 as to what they could do in the event of an  
7 emergency.

8 MR. PERRONE: So by accessing that  
9 lockbox and turning a key they could basically  
10 shut the whole facility down?

11 THE WITNESS (Lindsay): That's typically  
12 what is done.

13 MR. PERRONE: Okay. And the entire  
14 facility would be deenergized at that point?

15 THE WITNESS (Lindsay): That's right.

16 MR. PERRONE: Okay. I understand the  
17 prefiled included a lot of revisions to take into  
18 account the revised configuration, updated some  
19 numbers. One area --

20 THE WITNESS (Walker): Excuse me. I  
21 just want to clarify what Joel said, is that the  
22 solar panels will always produce electricity as  
23 long as there is light on them.

24 What the circuit does is deenergize  
25 power leaving the array, but as long as there's

1 sunlight on the solar panels those solar panels  
2 produce electricity.

3 MR. PERRONE: Because it's basically a  
4 passive device, so the DC power headed towards the  
5 inverter, that's still hot if there's light?

6 THE WITNESS (Walker): I'm not an  
7 electrical engineer. So I don't know all the  
8 safety, but the national electric codes and other  
9 codes, we -- we follow all the prescribed safety  
10 and fire codes for such a system.

11 MR. PERRONE: Now I'd like to get into  
12 the FAA issues. I understand earlier on we  
13 received the no-hazard determinations based on  
14 corners of the plant, the center of the plant.

15 Since the plant configuration has  
16 changed slightly, but the height hasn't increased,  
17 would these no-hazard determinations still stand,  
18 or would they have to be revised?

19 THE WITNESS (Lindsay): They should  
20 still stand. It's still essentially the same  
21 height. There's really been no change in that.

22 MR. PERRONE: And in the first set of  
23 the Council interrogatories we had asked about the  
24 glare analysis. Since your angle has changed  
25 would that materially affect your glare analysis?

1 THE WITNESS (Lindsay): It should not  
2 materially affect it.

3 MR. PERRONE: So the conclusions reached  
4 in your glare analysis would remain the same?

5 THE WITNESS (Lindsay): It should be  
6 essentially the same.

7 MR. PERRONE: In response to Council  
8 interrogatory 95, in set 2 there's mention of a  
9 countersunk fence. So by mention of a countersunk  
10 fence, do you mean part of the chain-link would be  
11 buried below grade?

12 THE WITNESS (Butler): Yes. That's the  
13 intent, is just to have no gap at the soil  
14 surface.

15 MR. PERRONE: But smaller animals such  
16 as snakes could still climb through the chain-link  
17 fence, the mesh?

18 THE WITNESS (Butler): Correct.

19 MR. PERRONE: Is it possible that some  
20 wildlife could get stuck in the fence mesh?

21 THE WITNESS (Butler): With the  
22 two-by-two standard chain-link it's very uncommon.  
23 I'm not aware of it and the animals that we're  
24 specifically trying to either protect or exclude  
25 wouldn't be affected for it, by it. That's why we

1 have selected that method.

2 MR. PERRONE: Okay. Had you considered  
3 raising the mower height to, say, eight inches to  
4 prevent take of species during mowing?

5 THE WITNESS (Butler): We had, and  
6 that's a tactic that's used both in Hane and  
7 other -- other applications outside of the solar  
8 realm.

9 The downside of that, there's still  
10 vehicle tires, treads that occupy about 20 percent  
11 of the spread of the mowing deck. And so that's a  
12 source of mortality, and so that's one of --  
13 that's the main reason. So --

14 MR. PERRONE: And I understand that  
15 while the height of the facility has not  
16 increased, I just want to ask about that. In the  
17 prefiled testimony of Patricia Foster it mentions  
18 that the top of the solar panels would be about  
19 7 feet, and then the drawing in Council  
20 interrogatory 108 it's showing roughly 6 feet.

21 Would it be, say, closer to six, but  
22 seven is sort of a worst-case height?

23 THE WITNESS (Lindsay): I would say,  
24 yes. Yeah, there it's probably closer to six, but  
25 we use seven as a conservative number.

1           MR. PERRONE: Also early on, going back  
2           to council interrogatory number seven we had asked  
3           about agricultural soil impacts. Would your  
4           response to that remain the same given the  
5           revised configuration? That would be back in set  
6           one.

7           THE WITNESS (Foster): The solar array  
8           parcel does not contain any Connecticut prime  
9           farmland soils or Connecticut imported  
10          agricultural soils. It does not change the  
11          response.

12          MR. PERRONE: And while we're on that  
13          topic, one issue that was brought up by the  
14          Council on Environmental Quality -- and we had  
15          also posed the question to the Department of  
16          Agriculture. The Department of Agriculture had  
17          noted that a field visit would be warranted to see  
18          if surface stones had been removed, since that  
19          could possibly result in reclassification as  
20          important farmland soils.

21                    Could the petition respond to that?

22          THE WITNESS (Lindsay): We have not  
23          taken any action with regard to that.

24          MR. PERRONE: Would the proposed revised  
25          configuration reduce impacts to core forests?

1           THE WITNESS (Foster): There will be a  
2 change, yes. There will be a reduction in the  
3 change to interior forest.

4           The current area of core forest, as said  
5 we noted 788 acres total, 443 acres of interior  
6 and 345 of edge. With the revised site plan the  
7 interior forest will change to 359 acres, and the  
8 edge to 375. So there will be a reduction in  
9 interior forest, but an increase in edge forest.

10          I would like to point out, though, it's  
11 medium-sized forest patch and it will remain a  
12 medium-sized forest patch.

13          MR. PERRONE: I'd like to move on to the  
14 stormwater topic. I understand that with the  
15 revised configuration, a revised stormwater plan  
16 hasn't been worked out, but I have some general  
17 stormwater questions.

18          In the filing from DEEP dated  
19 September 21st, and it's filed by Mr. Reese,  
20 attached to that is a document called stormwater  
21 management and solar farm construction projects.

22          And on page 2 and 3 of that document  
23 DEEP has recommendations, and has the petitioner  
24 reviewed those recommendations? And would the  
25 petitioner be able to incorporate those

1 recommendations in its stormwater design?

2 THE WITNESS (Bukowski): Yes, we have  
3 reviewed, and we actually met with DEEP on  
4 October 5th to discuss with them the project and  
5 the requirements of the construction general  
6 permit. So our plan is to comply with their  
7 recommendations as well as the permit  
8 requirements.

9 MR. PERRONE: And while I understand  
10 that the design will be updated, in general would  
11 you expect that post construction discharge rates  
12 onto adjacent properties would be no greater than  
13 preconstruction?

14 THE WITNESS (Bukowski): Yes.

15 MR. PERRONE: And Rescue Candlewood  
16 Mountain submitted a 2007 Town of New Milford  
17 decision that denied a housing development at the  
18 site. And some of the reasons for that denial  
19 were related to stormwater issues.

20 For example, increase in impervious  
21 surface. And let's see, reduced infiltration and  
22 transpiration of stormwater by tree removal and  
23 regrading.

24 I understand the proposed project is  
25 quite different than a housing development

1 project, but would these stormwater issues that  
2 were listed in the housing project denial, would  
3 those issues be a problem for the proposed  
4 facility?

5 THE WITNESS (Bukowski): As you said, it  
6 is quite a different. We're not installing roads  
7 and houses and things like that here. So the  
8 solar panels themselves are not considered  
9 impervious area because they're elevated above the  
10 ground. So they're not in direct contact with the  
11 ground.

12 And stormwater does run onto the panels.  
13 There are gaps between each of the panels so it  
14 allows the stormwater to flow through. In  
15 addition, any stormwater that flows between the  
16 rows is allowed to run on into those areas below  
17 the panels. So as far as impervious area, it's  
18 really not even close to being what would be  
19 provided for a typical development.

20 MR. PERRONE: And you're not proposing  
21 any paved surfaces?

22 THE WITNESS (Bukowski): There will be  
23 some concrete paths for it to hold some of the  
24 transformers and the larger electrical equipment.  
25 But other than that? No, it's just gravel roads.

1 MR. PERRONE: Okay. And one last item  
2 on the stormwater topic. I don't know if you have  
3 this in front of you. This was filed by Rescue  
4 Candlewood Mountain. It's dated October 20th.  
5 It's a letter from Russell Posthauer,  
6 P-o-s-t-h-a-u-e-r?

7 THE WITNESS (Bukowski): Yes, I have  
8 read that.

9 MR. PERRONE: On page 1 of that there  
10 are four points that are made. Would the  
11 petitioner be able to respond to those?

12 THE WITNESS (Bukowski): Yes.

13 So the first one says, in general the  
14 proposed construction calculations do not take  
15 into account the placement of solar panels on  
16 site. When we look at this we look at the site as  
17 a whole.

18 So the curb number, which is basically  
19 the factor that plays into the surface and how  
20 rain will either run off or infiltrate, that does  
21 change. We are, as you know, removing trees and  
22 we are installing gravel roadways, doing minor  
23 regrading.

24 So the overall site hydrology won't  
25 change, but you know, it does take into account

1 the solar panels and the area that they're placed  
2 in. As I mentioned earlier, the solar panels are  
3 not considered impervious area because they don't  
4 have direct contact with the ground.

5 Item two, time of concentration has been  
6 determined, ignoring the solar panel locations by  
7 creating a longer TC of the amount of  
8 post-construction flow -- is underestimated,  
9 shorter TC increase, estimated runoff.

10 So we do -- we do take that into  
11 account. Again, the time of concentration is  
12 defined as the most distant point in the watershed  
13 area to the final point. So that is factored in.

14 I think what he's getting at here, again  
15 is -- I think what he's saying is that the solar  
16 panels themselves should be considered impervious  
17 area, but that's not the case, because again  
18 they're not in direct contact with the ground.

19 Number three. It says, they could not  
20 find where the increase in impervious area gravel  
21 roads was incorporated into the calculations which  
22 by its absence decreases the drainage flow from  
23 post-construction condition. The location on the  
24 gravel road would also affect the TC, further  
25 reducing the number.

1           The gravel roads were taken into  
2           account. One thing that we did clarify with DEEP  
3           when we met with them earlier this month is that  
4           the gravel roads need to be considered or modeled  
5           as impervious. So the software that we use has  
6           different curb numbers assigned for, say, a gravel  
7           surface versus a paved surface. So the final  
8           analysis will model those roads as -- as  
9           impervious.

10           The last item was number four. With the  
11           angle of solar panels being reported 15 degrees  
12           from horizontal and the apparent width being about  
13           20 feet, one would expect that there would be  
14           substantial areas of ground under the panels that  
15           will not be rained upon. This would make these  
16           areas equivalent to being impervious. Think about  
17           placing a large, oversized table on the ground and  
18           being able to get under it to stay dry while it's  
19           raining.

20           Additionally, any growth would be  
21           expected to be poor and not good as indicated in  
22           the calculations. This would be expected to  
23           increase substantially the flow off the site.  
24           Again, it also would be expected to affect the TC,  
25           further reducing it.

1           So as I said before, these panels are  
2 placed in racks and there are gaps between each of  
3 the panels. So it's not a situation where all the  
4 rain that hits one of these racks flows to the  
5 drip edge and then goes off there. So the rain  
6 does go between each of these and you can see if  
7 you go out to a solar site that's under  
8 construction before vegetation has been  
9 established. You can see where the rain actually  
10 flows through.

11           And the rain also does go under the  
12 panels. In fact, as far as the comment about  
13 vegetation growth, we've seen better vegetation  
14 growth on the bottom side of the panels just  
15 because it is shaded somewhat. Sometimes it tends  
16 to get burned out in other areas that are exposed  
17 just directly to sun.

18           MR. PERRONE: Great. Thank you.

19           One more item on going back to  
20 alternatives. I understand right off of  
21 Candlewood Mountain Road near where we parked for  
22 the field review there's an open field area. And  
23 I understand initially that was avoided for solar  
24 development because of visibility concerns, but  
25 how much acreage would you have there if you were

1 to install panels in that open field?

2 THE WITNESS (Lindsay): About  
3 five acres.

4 MR. PERRONE: If you were to relocate  
5 solar panels onto that field could you reduce  
6 vernal pool impacts?

7 THE WITNESS (Foster): So there's three  
8 vernal pools on the site. There's one in wetland  
9 five and then there's two cryptic vernal pools  
10 that were identified within wetland one. The  
11 revised site plan has shown there's no impact to  
12 the vernal pool depression and there's no direct  
13 impact to the hundred-foot envelopes.

14 MR. PERRONE: Okay. One other item on  
15 that thought. If you did move some of the panels  
16 onto the open field area, would that reduce the  
17 amount of forested area to be cleared?

18 THE WITNESS (Lindsay): I'd say my -- my  
19 initial answer would be potentially we could  
20 reduce it somewhat. Given that it's about  
21 five acres and we, you know, there -- there could  
22 be some reduction in the amount of array up on the  
23 higher part.

24 MR. PERRONE: And just one last item on  
25 the topic. If you were to relocate some of the

1 panels, let's say, from the north of where it's  
2 currently proposed to the open field, would you be  
3 able to mitigate the visual impacts with, say, a  
4 vinyl fence or planting trees around the arrays?

5 THE WITNESS (Lindsay): Potentially, but  
6 the visual impact would still be much more than  
7 what it is now.

8 MR. PERRONE: Okay. Now I'm going to  
9 move on to vernal pool impacts. Specifically the  
10 critical terrestrial habitat areas around the  
11 vernal pools. I understand for wetland one and  
12 wetland five we were also given an aggregate  
13 figure that takes into account both.

14 Is that commonly done to do an aggregate  
15 figure? Or are they generally reviewed  
16 separately, the CTHs?

17 THE WITNESS (Butler): It's certainly  
18 part of the same system. I'm not sure if there's  
19 a convention on that, but when you're looking at  
20 protected -- a similar set of interests and these  
21 are overlapping, it makes intuitive sense I think  
22 that you consider it.

23 And we do give the breakdown of  
24 individual as well, or at least two individuals  
25 for wetland one and wetland five, but I don't

1 think it's disingenuous to show they're not a  
2 landscape scale, the actual impacts.

3 MR. PERRONE: Does the Calhoun and  
4 Klemens document give any guidance about doing  
5 them separately versus together? Or do you  
6 believe it's silent on that?

7 THE WITNESS (Butler): I don't believe  
8 it's addressed. I could be incorrect, but I don't  
9 believe so.

10 MR. PERRONE: And as far as the  
11 development within the CTH, wetland 5 I believe  
12 we're at a little over 17 percent, and wetland 1,  
13 a little over 41 percent. Which pool has the  
14 greatest number of vernal pool obligate and  
15 facultative species breeding in the pool?

16 THE WITNESS (Butler): We don't know  
17 that factually. Neither pool has been examined  
18 during the peak of breeding season. There may be  
19 more diversity in one or the other.

20 I believe in the CVPs in wetland one it  
21 may be somewhat more diverse because the habitat  
22 interior to the vernal pool envelope is a little  
23 more diverse than up in wetland five.

24 MR. PERRONE: Would you consider the  
25 loss of 41 percent of forested cover within the

1 CTH of wetland 1 a significant and irreversible  
2 impact?

3 THE WITNESS (Butler): Statistically  
4 it's significant being about 5 percent. It -- in  
5 this context, however, the Calhoun and Klemens  
6 guidelines I don't think anticipated solar  
7 developments as a development option on the menu  
8 in 2002. When that was written solar, the solar  
9 industry was pretty vestigial in the Northeast  
10 here.

11 So we do have a different overall  
12 impact. We don't have -- as I mentioned in my  
13 testimony, we don't have some of the ongoing  
14 legacy impacts of mortality from road strikes,  
15 capture and storm drains and generally either  
16 paved or otherwise, unfavorable or uninhabitable  
17 landscape.

18 So we do alter it. It is significant by  
19 the dictionary definition certainly, but it's not  
20 quite on par with conventional development, which  
21 I think was more anticipated in the Calhoun and  
22 Klemens document.

23 MR. PERRONE: And back to that  
24 countersunk fence topic, would excluding box  
25 turtles from the field disrupt their present home

1 ranges?

2 THE WITNESS (Butler): Yes. If -- if  
3 they're present there, which we don't have any  
4 imperial evidence, and on mountain -- mountainous  
5 areas, the density of box turtles tends to be  
6 less, in my personal experience, than that of  
7 others.

8 That being said, the transformation of  
9 the habitat would be an alteration of it to begin  
10 with. We opted as -- in some instances solar  
11 arrays opt to raise the fence and allow wildlife  
12 to move freely. We didn't think that was the  
13 desirable course of action in this instance.

14 As I said, other species will be able to  
15 perambulate the array field at their leisure or at  
16 their convenience, but we thought it was more  
17 important to keep the adult stage of box turtles,  
18 which are probably very rarefied on the landscape  
19 as is, keep them at bay from an area where there  
20 would be an internal hazard potentially.

21 Meanwhile, they will have the shade  
22 arrays -- shade aprons, rather, on the exterior of  
23 the fence that they can use as forage, as thermal  
24 regulation and potentially as nesting habitat,  
25 again if they're present there and in significant

1 numbers.

2 THE WITNESS (Bukowski): Can I just add  
3 one more thing?

4 MR. PERRONE: Sure.

5 THE WITNESS (Bukowski): As part of this  
6 layout one of the things to note is that the array  
7 itself has been pulled back further from the  
8 wetland than what was originally proposed.

9 MR. PERRONE: One last item on the fence  
10 topic. With respect to turtles, since the fence  
11 would be countersunk into the ground would turtles  
12 be intercepted by the fence and perhaps left  
13 vulnerable to predation?

14 THE WITNESS (Butler): They would be  
15 intercepted or displaced and diverted by the  
16 fence, if you will. The box turtle is fortunately  
17 a pretty durable -- as an adult a durable animal.

18 Hatchlings and very young stage animals  
19 could ostensibly get inside the array. It would  
20 probably not be a habitat they would want to  
21 persist in. Hatchlings are very sessile.  
22 Hatchlings stay under cover in typically a  
23 woodland environment in the first several years.

24 So if they went in they would be able to  
25 freely exit, but an adult box turtle is at the

1 most critical lifestage. If you look at  
2 life tables and life history as related to box  
3 turtles the most important stage to preserve is  
4 the adult, the breeding adult age animals that can  
5 breed from age 10 or 12 to age 80. And so the  
6 mortality of those is the most highly avoided, or  
7 the most desirable to be avoided aspect of that  
8 issue.

9 MR. PERRONE: And one last item on the  
10 topic. Could you tell us why the countersunk  
11 fence option was chosen rather than the six-inch  
12 gap at the bottom option?

13 THE WITNESS (Butler): Again, it's to  
14 exclude on the presumption that box turtles are  
15 present in some measurable number. We thought it  
16 was more prudent to keep them to the external, or  
17 exterior of the array fields.

18 But they will again have the shade  
19 aprons as an area to be managed I believe not more  
20 than twice a year in the off-season for box  
21 turtles, the November 1 to April 15th inactive  
22 period, or relatively inactive period.

23 Box turtles do not hibernate in a fairly  
24 successional old scrub or old field habitat  
25 environment. So you don't have to worry about

1           effecting the animals that might utilize those  
2           shade aprons during the growing season or during  
3           the active season, but you do your mowing or any  
4           other maintenance activities in the  
5           nonactive season.

6                        They'll be hibernating in the woods, a  
7           forested environment rather than hiding in the  
8           shade aprons or in the array.

9                        MR. PERRONE:   And one very last question  
10          also related to panels potentially located in the  
11          field.

12                      If some panels were located in the open  
13          field, let's say, taken from the north and moved  
14          to the south, could that result in the material  
15          reduction in the loss of core habitat?

16                      THE WITNESS (Butler):  I believe  
17          mathematically it could just because you'd be  
18          taking that five acres, although the geometry when  
19          you take the five-acre piece and displace it to  
20          another area would not necessarily be a linear --  
21          I have not thought it out, but I assume  
22          theoretically unless some of the other members  
23          have a different thought, taking that and  
24          displacing into another location would reduce the  
25          number of trees cut, and therefore some buffering

1 zone associated with that.

2 MR. PERRONE: And lastly, I'd like to  
3 ask about the difference between electricity sales  
4 and power flow. I understand -- well, I'd like to  
5 get into the distinction between the two.

6 For example, I understand the proposed  
7 project would be tied into the grid, but your  
8 actual electricity sales would be out of state.  
9 Could you explain the difference between  
10 electricity sales which may potentially be out of  
11 state versus actual power flows?

12 THE WITNESS (Walker): The power flows  
13 follow the laws of physics and will go within that  
14 area and will serve the needs of that area. And  
15 how we operate is governed and controlled by ISO  
16 New England, but it will serve that area.

17 The electricity itself will not go into  
18 Massachusetts. It's does flow -- not like a  
19 highway where you can identify an electron and  
20 send that electron to Massachusetts.

21 During our discussions and negotiations  
22 with the utilities they're most interested in the  
23 renewable energy credits and what they informed  
24 us -- and this is just from their verbal  
25 communications with us. That they plan to

1 immediately sell that electricity into the grid at  
2 that point in time, that this was for -- this is  
3 an accounting process for them. They need to have  
4 a certain amount of renewable energy credits.

5 So the sale of electricity and the sale  
6 of RECs is an accounting function. The actual  
7 electricity and electrons will be in that region.

8 MR. PERRONE: And one last thing. Is a  
9 REC essentially a certificate that you've  
10 generated one megawatt hour of class one?

11 THE WITNESS (Walker): Yes, that's what  
12 it is. Yeah.

13 MR. PERRONE: Thank you. That's all I  
14 have.

15 THE CHAIRMAN: Okay. Thank you. We'll  
16 now continue with cross-examination by the  
17 Council.

18 Mr. Silvestri?

19 MR. SILVESTRI: Thank you, Mr. Chairman,  
20 and good morning.

21 Could you explain to me the relationship  
22 between Ameresco, Candlewood Solar LLC, and New  
23 Milford Clean Power?

24 THE WITNESS (Walker): Ameresco owns the  
25 Candlewood, LLC, for -- and all our projects are

1 owned that way. They're financed, and separately.  
2 The New Milford is owned by a separate entity and  
3 they're leasing the land to us. There's no --  
4 there's no relationship except that we have --  
5 we'll have a lease agreement with them.

6 MR. SILVESTRI: Okay. So who will own  
7 and operate the solar generation facility if  
8 approved and when it begins operations?

9 THE WITNESS (Butler): Ameresco's LLC,  
10 which is Candlewood.

11 MR. SILVESTRI: Mr. Walker, I wanted to  
12 go back when you had mentioned you're proposing to  
13 change inverters. Will the numbers stay the same,  
14 eight?

15 THE WITNESS (Walker): So what -- what  
16 has been filed is what that proposed change is.  
17 We've already made the change. We were asked to  
18 make that change by Connecticut Light & Power, and  
19 we did so.

20 THE WITNESS (Lindsay): The number  
21 should be the same. They're generally the same  
22 size. There's just some different controls  
23 associated.

24 THE WITNESS (Walker): It's really a  
25 function of controls that allows ISO New England

1 to have greater control over our array.

2 MR. SILVESTRI: Thank you. If I could  
3 have you look at the original drawing E-100 and  
4 also E-101? And I'll give you a moment to find  
5 those.

6 THE WITNESS (Lindsay): We are there.

7 MR. SILVESTRI: So far so good. More  
8 particularly with E-101, when we talked earlier  
9 about spacing between the rows of panels, if I  
10 look at the original design that was being  
11 proposed, the spacing varies according to the  
12 drawing of E-101 and E-100.

13 And I was wondering if you could explain  
14 why towards the bottom of the drawing, the spacing  
15 looks a lot greater than when you get to the top  
16 of the drawing there where it says, vernal pool?

17 THE WITNESS (Lindsay): To some extent  
18 that's a little bit of just a design artifact.  
19 That's -- there's probably not a significant  
20 amount of difference, but it may vary some.

21 Just based on our designers looking at  
22 these specific areas and what they're trying to  
23 fit in a specific area and that, well, that's  
24 something that will be finalized by our engineers  
25 once the overall -- overall space that we're using

1 is finalized. So there's -- there's not a  
2 significant amount of variation between, in terms  
3 of inter-row spacing, and it might be an artifact  
4 of the figure itself showing maybe -- maybe more  
5 than it really is going to be.

6 There's an average spacing and there's  
7 really not -- there's not a need to change that  
8 spacing significantly other than maybe some local  
9 variations in terrain.

10 MR. SILVESTRI: So when I continue with  
11 that and look at the more blown-up drawings, for  
12 example, I have 7 of 14, and 6 of 14, I still see  
13 a very compact array towards the north of the  
14 property and a very spread out a ways as you go  
15 further south.

16 THE WITNESS (Walker): Right. And  
17 actually my -- really what it probably is most  
18 attributed to is that it's steeper up at the  
19 northern end. So by definition you don't have as  
20 much row-to-row shading when it's steeper. So you  
21 can actually move the rows somewhat closer  
22 together. So they would potentially be closer  
23 there.

24 Really that's really the main area where  
25 it's significantly, somewhat significantly steeper

1 than the remainder of the area.

2 MR. SILVESTRI: So when you mentioned  
3 the six to eight-foot shading earlier in response  
4 to Mr. Perrone's question, that would be more  
5 towards the southern part where you don't have  
6 much of a slope?

7 THE WITNESS (Lindsay): Yes, but it  
8 would not get any -- the spacing would not get any  
9 less than, I think, it's five feet, eight inches.

10 MR. SILVESTRI: Even on the northern  
11 part?

12 THE WITNESS (Lindsay): Yes.

13 MR. SILVESTRI: Okay. Thank you.

14 Going back to both of those drawings --  
15 actually, the E-100 old and revised. I did not  
16 have the same scale that I could actually overlap  
17 both of the drawings to really see what the  
18 changes were being proposed.

19 Could you take a minute to describe the  
20 new E-100 and the changes that you made on it?

21 THE WITNESS (Lindsay): The main  
22 changes, the main changes are as we discussed in  
23 terms of the actual area that the array is using.

24 So in response to some of the additional  
25 information that was developed with regard to the

1 cryptic vernal pools, we've pulled the array  
2 essentially to the west. We've moved the array to  
3 the west relative to the old configuration on  
4 the -- this is kind of confusing, but on the  
5 eastern edge of the array.

6 That has been moved to the west to  
7 provide more buffer and to account for staying out  
8 of identified optimal habitat areas for the slimy  
9 salamander. So they're providing more buffer for  
10 the vernal pools and to stay out of the habitat  
11 areas. So that's the main change in terms of the  
12 area.

13 We did have a couple of additional  
14 notes. We noted that the field on Candlewood  
15 Mountain Road would be a potential temporary lay  
16 down area. And the other differences are also  
17 associated with those additionally identified  
18 vernal pools. The buffer -- the buffers are drawn  
19 around those on the figure.

20 So you can see that it kind of creates  
21 an overall buffer area. As Mr. Butler mentioned,  
22 they kind of intercept, so it creates an overall  
23 buffer area.

24 MR. SILVESTRI: I'm going to call them  
25 access ways, or access routes. Did they change

1 somewhat between the two drawings as well within  
2 the field itself?

3 THE WITNESS (Lindsay): Yes. I think  
4 there's some changes there. And again, that's  
5 something that we've done based on making sure  
6 that there's access while accommodating the fact  
7 that we shrunk the eastern end, the eastern side  
8 of the array. So it potentially eliminated some  
9 of the access ways there.

10 But that's not, you know, internal to  
11 the array. Those can be adjusted somewhat in  
12 terms of the final design.

13 MR. SILVESTRI: Okay. Thank you.

14 Would the change from a 15 degree tilt  
15 to a 12 degree tilt, what effect does that have on  
16 electricity production?

17 THE WITNESS (Lindsay): It has a small  
18 effect on the actual kilowatt hours generated per  
19 kilowatt of an array. So it does have a small  
20 effect on the -- essentially the specific  
21 production of the array. It lessens it somewhat  
22 because you're at a lower tilt.

23 MR. SILVESTRI: Overall do you still  
24 stay at 20 megawatts AC?

25 THE WITNESS (Lindsay): We do.

1 MR. SILVESTRI: You do.

2 Staying with the arrays themselves,  
3 you're proposing to use JASolar panels?

4 THE WITNESS (Lindsay): That is what we  
5 had currently looked at. That is subject to  
6 change based on availability of panels going  
7 forward in the next few months, but we always used  
8 tier one solar panels. We use panels that are  
9 considered, you know, high-quality panels, but  
10 the -- the actual manufacturer, it could  
11 potentially change.

12 MR. SILVESTRI: Thank you.

13 And with the arrays themselves and the  
14 racking system, why is the bottom edge of the  
15 panels about two to three feet above ground?

16 THE WITNESS (Lindsay): A number of  
17 reasons. In northern climates it's best to have  
18 panels off the ground. Well first of all, in  
19 terms of -- in terms of them considered pervious,  
20 you want to have them off the ground.

21 But also in terms of potential snow  
22 accumulation, it's best to keep panels at a height  
23 where they wouldn't actually be inundated by  
24 accumulated snow on the ground in the winter. And  
25 also it keeps them at a height where grass can

1 grow, but doesn't have to be mowed down to golf  
2 course level. That it can grow somewhat, but  
3 you've got, you know, approximately two feet  
4 there.

5 So it keeps the need for mowing down to  
6 more like haying a field, more like a couple times  
7 a year.

8 MR. SILVESTRI: Does the change to the  
9 12 degrees tilt, does that affect the distance off  
10 the ground at all?

11 THE WITNESS (Lindsay): At the top end  
12 it does. It lowers the distance from the ground  
13 at the high end of the table.

14 MR. SILVESTRI: But not on the other  
15 end?

16 THE WITNESS (Lindsay): No.

17 MR. SILVESTRI: Is there a point  
18 somewhere where the angle of the sun could be  
19 above the horizon, but still impede solar  
20 production?

21 THE WITNESS (Lindsay): I'm not sure.  
22 By impede do you mean --

23 MR. SILVESTRI: If you look at terrain  
24 surrounding the area, is there something? Trees?  
25 A hillside? Whatever that the sun is going to get

1 to, say, 20 degrees above the horizon and not be  
2 effective for you?

3 THE WITNESS (Lindsay): There is a  
4 degree of shading of the facility at the edges  
5 that we have to account for, because we want to  
6 limit as much as possible the amount of clearing  
7 for shading. And so that's a calculation that's  
8 done specifically to look at different times of  
9 year what the amount of shading would be.

10 MR. SILVESTRI: But you don't have that  
11 number right now?

12 THE WITNESS (Lindsay): Well, it's not a  
13 single number. It's more of a calculation we'll  
14 get. What's the overall production based on  
15 assuming a certain amount of shading from nearby  
16 trees? And so we -- we account for that in the  
17 modeling.

18 MR. SILVESTRI: Okay. I wrote a note on  
19 my paper and I'm having a hard time trying to find  
20 why I wrote it down. So I want to ask the  
21 question to you.

22 I have it that no arrays would be in  
23 areas of slope greater than ten degrees?

24 THE WITNESS (Bukowski): Yeah, I recall  
25 that coming up at the last hearing. So in general

1 the racking manufacturer dictates what's the  
2 maximum allowable slope, and ten degrees is  
3 typical.

4 In southern facing slopes they can go a  
5 little bit steeper, which as Joel mentioned  
6 earlier, the northern side of the array, it's a  
7 little bit steeper there which is why that  
8 interval spacing is a little bit closer.

9 MR. SILVESTRI: Okay. So that's where  
10 that came from. More with the manufacturing spec?

11 THE WITNESS (Bukowski): Right.

12 MR. SILVESTRI: Okay. Thank you.

13 If I look at the TerraSmart attachment  
14 that you had looking at equipment specs, it lists  
15 120 mile-per-hour wind speed for the racking  
16 system. How many panels could be placed on a  
17 racking system and still maintain -- or sustain  
18 120-mile an hour winds?

19 THE WITNESS (Lindsay): That's an  
20 interesting way to put the question? I think in  
21 terms of the -- the tables that we have and Rob,  
22 you can chime in here, too. In terms of the  
23 tables they're designed so that, you know, that  
24 design limit is not exceeded.

25 And that's the typical, the installation

1           that we showed -- in fact on one of the  
2           interrogatories we provided a cross-section that  
3           accounts for that limit in terms of what the racks  
4           are able to handle.

5                       MR. SILVESTRI:  What I saw in the  
6           cross-section was five panels high laid out  
7           landscape-wise.  I'm not sure how many long.

8                       THE WITNESS (Lindsay):  Yeah, it's four.  
9           There should be 20 panels per table.

10                      MR. SILVESTRI:  So it would be five by  
11           four?

12                      THE WITNESS (Lindsay):  Yeah.

13                      MR. SILVESTRI:  Okay.  And the wind  
14           speed that it could sustain, is that regardless of  
15           tilt?

16                      THE WITNESS (Lindsay):  Yes.  In fact, a  
17           lesser tilt is -- is more advantageous.

18                      MR. SILVESTRI:  Staying with the racking  
19           system, the snow loading is rated as 50 PSF.  I  
20           would also ask is that regardless of tilt?

21                      THE WITNESS (Lindsay):  Yes, the panels  
22           themselves, and we've had a lot of experience with  
23           this, they slough off snow themselves.  It's a  
24           little bit less when you get a lesser tilt, but  
25           we're not making a significant change in the tilt.

1           It's only a three degrees change going from 15 to  
2           12.

3                       MR. SILVESTRI: You know, if I turn the  
4           clock back to February 9th of 2013 parts of the  
5           state ended up with 30 to 40 inches of snow. How  
6           does, say, 40 inches compare to 50 PSF?

7                       THE WITNESS (Lindsay): It's not a  
8           problem in terms of loading. It would only be a  
9           problem in terms of -- and it's really only an  
10          issue in terms of production during that period  
11          until the snow melts and it sloughs off.

12                      MR. SILVESTRI: So the racking system  
13          could --

14                      THE WITNESS (Lindsay): The racking  
15          system can withstand it. It's more of an issue of  
16          you will lose production on some portion of the  
17          array that doesn't slough off that snow  
18          immediately.

19                      MR. SILVESTRI: Thank you.

20                      Mr. Walker, you had mentioned before  
21          about renewable energy credits, the RECs.

22                      THE WITNESS (Lindsay): Can I just add  
23          one thing? I'm sorry.

24                      We do have structural engineers evaluate  
25          every single one of our systems including --

1 including this one to make sure that all those  
2 requirements are met.

3 MR. SILVESTRI: Thank you.

4 Mr. Walker, getting back to my question.  
5 You mentioned renewable energy credits before for  
6 the project. Who actually gets those?

7 THE WITNESS (Walker): There, they're  
8 sold as part of the project.

9 MR. SILVESTRI: To?

10 THE WITNESS (Walker): So the utilities  
11 who are buying power get those RECs and then they  
12 do what they want with them.

13 MR. SILVESTRI: Would they go through  
14 Eversource or that's still open right now?

15 THE WITNESS (Walker): The -- the four  
16 utilities, after we generate the RECs the four  
17 utilities take title to those RECs.

18 MR. SILVESTRI: And I found a note that  
19 you would be participating in ISO's forward  
20 capacity auction. Is that correct?

21 THE WITNESS (Walker): Yes. We will.  
22 That's part of the requirements of the utilities.

23 MR. SILVESTRI: What happens if you  
24 don't clear the auction?

25 THE WITNESS (Walker): Well, hopefully

1 we do clear the auction, but it will be our  
2 objective to figure out the strategy and the price  
3 so that we do clear the auction, but I'm -- we  
4 have someone who's an expert at that within our  
5 office. I'm not that expert.

6 MR. SILVESTRI: And nobody here could?

7 THE WITNESS (Walker): No, but -- nobody  
8 here is.

9 MR. SILVESTRI: We'll leave that for the  
10 time being.

11 If I could have a look at the -- or have  
12 you look at the New Milford farmland and forest  
13 protection committee. They had issued a memo and  
14 a question I wanted to ask as a followup. Was  
15 there an item number four? Is it feasible to use  
16 sheep or other livestock to graze the solar area?

17 THE WITNESS (Lindsay): We're not aware  
18 of any location where it's been done. Whether  
19 it's feasible is hard to say. It may be.

20 It's something that would probably be  
21 very challenging in terms of our financing for a  
22 project like this, or anyone financing a solar  
23 project in terms of just additional liability  
24 within the solar array.

25 MR. SILVESTRI: No, I asked not only

1           because it was in there, their memo, but on the  
2           news yesterday there was a couple cemeteries in  
3           the area that are actually using livestock to keep  
4           the grass down, hence my question to you.

5                         And in keeping with that memo there was  
6           item number six that talked about the potential  
7           for a permanent easement, or deeding to a land  
8           conservation organization following  
9           decommissioning. Did anything, further  
10          discussions or anything else happen with that  
11          thought?

12                        THE WITNESS (Lindsay): Not specifically  
13          with the forests and farmland preservation  
14          commission, but as part of our most recent  
15          submittal we did submit a plan for preservation of  
16          land around the -- on the parcel and on an  
17          adjacent parcel.

18                        MR. SILVESTRI: And who is that with?

19                        THE WITNESS (Lindsay): That is with --  
20          will be with the conservation organization to be  
21          determined. There's been several that -- that are  
22          in discussions.

23                        MR. SILVESTRI: Thank you.

24                        Question, what is Lookout Point? This  
25          is located somewhat north of the larger cleared

1 field within the parcel.

2 THE WITNESS (Butler): It's a vista  
3 point on the east side of the property. Whether  
4 it's on this property or on the adjacent parcel is  
5 not entirely clear to us, but it's mapped on the  
6 USGS topographics. And there is a slightly  
7 improved trail to it out there on the east -- east  
8 of wetland one for orientation. So it's basically  
9 just a landmark that you can see, kind of out over  
10 the valley.

11 MR. SILVESTRI: So there's public access  
12 to it that people could hike?

13 THE WITNESS (Butler): Right now it's, I  
14 guess, ostensibly private. Under the CR, I assume  
15 it would be allowed as long as the conservation  
16 organization were agreeable to that, to the public  
17 access.

18 MR. SILVESTRI: Thank you.

19 Going back to what's transpired in  
20 Connecticut in the area within the past two weeks.  
21 At least at my residence on Sunday I ended up with  
22 three and three quarter inches of rain in a couple  
23 hours. Last week was three and half in a couple  
24 hours. And I'm looking at the stormwater  
25 management report and it has information there

1 that spans a 24-hour period, but really doesn't  
2 talk about the deluge type of storms that we've  
3 had, you know, the three, four or five inches.

4 Have you considered deluge events in  
5 looking at stormwater for the project?

6 THE WITNESS (Bukowski): We modeled this  
7 project based on the Connecticut DEEP guidelines.  
8 So if there's different storm frequencies, really  
9 storm events there, in your terms of a  
10 hundred-year storm, it's really a probability of  
11 the event occurring. But we -- we based it on  
12 those guidelines.

13 MR. SILVESTRI: Which doesn't have  
14 deluge events.

15 THE WITNESS (Bukowski): Well I mean, it  
16 has different storm frequencies, but it's hard to  
17 really define, you know, exactly what the deluge  
18 would be. So we -- we go based on the guidelines  
19 that the State provides.

20 MR. SILVESTRI: Thank you. And I don't  
21 recall, but for a tree removal was the general  
22 plan to flush cut and leave the stumps, or take  
23 the stumps out and grind them? I'm not sure what  
24 the plan was.

25 THE WITNESS (Bukowski): Within the

1 fenced-in area the stumps would be removed, but  
2 between the fenced area and the limit of work the  
3 stumps could be left in place.

4 MR. SILVESTRI: Okay. If I could turn  
5 your attention then to attachment four. The  
6 attachment lists a number of meetings and public  
7 forums that have been held.

8 For the public the number is one,  
9 however on page 17 under description of the  
10 proposed project it states that several public  
11 meetings with the residents were held. The first  
12 question I have is, which is correct? Was it one,  
13 or more than one?

14 THE WITNESS (Lindsay): We had one  
15 public forum and then we -- we attended and  
16 presented at several public meetings that were  
17 held by -- well, all the meetings that were public  
18 in terms of forest and farmland preservation  
19 committee, the town council meetings.

20 So I think what we're referring to is  
21 all the meetings we presented at which were  
22 publicly attended meetings in addition to the  
23 public forum that we had held.

24 MR. SILVESTRI: When you had that one  
25 public forum roughly how many people attended?

1           THE WITNESS (Lindsay): I would say  
2 probably 30.

3           MR. SILVESTRI: Okay. Thank you.

4           Concerning fire prevention emergency  
5 management plans, I didn't see anything in the  
6 application. Do you have plans that address those  
7 issues?

8           THE WITNESS (Lindsay): In terms of fire  
9 prevention there's -- there's not specific things  
10 that are required other than we meet all the  
11 requirements of the National Electric Code.

12           And we also note that there's -- there  
13 has been some -- that CAL FIRE produced basically  
14 solar installation guidelines and those require  
15 for ground mount installation, or at least they  
16 recommend for ground mount installation that all  
17 brush be cleared within ten feet of the arrays to  
18 limit the amount of fuel potential.

19           And we're going to actually be clearing  
20 actually 75 feet outside the array based on the  
21 fence line and then clearing in -- within the  
22 shading apron.

23           So again, everything is enclosed and the  
24 system is monitored 24 hours a day, 7 days a week  
25 for any kind of short-circuit or anything like

1           that that could potentially produce a spark.

2                       In addition in terms of emergency  
3 management, again we would work with the local  
4 emergency responders to train them in how to  
5 respond and what -- what to do when they get to  
6 the site if there was a need to respond. And also  
7 to give them access and the ability to shut down  
8 the site.

9                       MR. SILVESTRI: How do DC arc falls fit  
10 in with fire prevention, or the potential for DC  
11 arc falls?

12                      THE WITNESS (Lindsay): Well, the system  
13 is designed to minimize that kind of condition  
14 from occurring. You know, that's something that  
15 again in our experience we haven't seen it  
16 occurring. It's something that we -- because the  
17 system is monitored and everything is fully  
18 enclosed we wouldn't anticipate that. So you  
19 know, everything is done to minimize the  
20 possibility of that happening.

21                      MR. SILVESTRI: Thank you.

22                      If I could have you turn your attention  
23 to the first set of interrogatories and responses  
24 from the council? The first question I have on  
25 these is in the response to number eight.

1           In your response to the interrogatory  
2           you mentioned to the best of the knowledge of  
3           Candlewood Solar, LLC, there is no environmental  
4           contamination on the proposed site from previous  
5           agricultural use or other land use.

6           My question is, what constitutes to the  
7           best of the knowledge? Was testing performed?

8           THE WITNESS (Lindsay): Testing was not  
9           performed. There, there had been previously I  
10          think associated with a previous owner that had  
11          been a phase one that was done on the site and --  
12          but there is -- we have not done any additional  
13          testing or investigation. We didn't think it was  
14          necessary.

15          MR. SILVESTRI: So the comment was more  
16          on either the phase one or limited paper research?

17          THE WITNESS (Lindsay): Right.

18          MR. SILVESTRI: Thank you.

19          Staying with those interrogatories, if  
20          you could look at number 20? In your response to  
21          that interrogatory you comment -- and the Chairman  
22          might want to get involved with this one, too --  
23          but you comment that battery storage is the topic  
24          and you have that the proposed system will not  
25          have a battery or any other type of energy

1 storage. All energy produced will be injected  
2 into the grid.

3 Was the use of battery storage ever  
4 discussed with Eversource, or during the RFP  
5 proposal?

6 THE WITNESS (Walker): We were  
7 responding to the RFP that was given to us, which  
8 did not request a pricing for battery storage. It  
9 was strictly a price for kilowatt hours and RECs,  
10 and that's what we responded to. Any -- any other  
11 price for batteries would have increased our  
12 price, and in our mind would have made us not  
13 competitive.

14 MR. SILVESTRI: Can the proposed project  
15 accommodate battery storage at some other point in  
16 time?

17 THE WITNESS (Walker): It's -- it's  
18 possible. We would -- we would have to have a  
19 means by which we could have those batteries paid  
20 for. Under the existing contract that's not  
21 possible.

22 THE CHAIRMAN: Well, would it be  
23 technologically possible?

24 THE WITNESS (Walker): Yes, we're --  
25 we're working. We have solar plus battery

1 installations at military bases and it is  
2 technologically possible, but it does increase the  
3 cost of the project and that would have to be  
4 factored into it.

5 But we -- we do, for example, in Paris  
6 Island we're installing ten megawatts battery plus  
7 storage. Paris Island, for the Marines.

8 THE CHAIRMAN: But is there anything in  
9 your agreements that would prohibit it if, for  
10 example, somehow it became feasible from a price  
11 standpoint?

12 THE WITNESS (Walker): It's not  
13 contemplated in our agreements. All the power is  
14 contemplated to be sold to the utilities and the  
15 RECs. I would imagine it would require a  
16 renegotiation with the utilities.

17 THE CHAIRMAN: The reason for the  
18 question is you're proposing a project that will  
19 be in operation for 20 years. And I would say I'm  
20 a layperson, but from all I've read it's hard for  
21 me to conceive that within that period of time,  
22 and I would say a much shorter period of time,  
23 that battery storage technology will not have  
24 advanced to such a point that it may be desirable  
25 to include that, or retrofit that in. Am I

1 hearing that -- no?

2 THE WITNESS (Walker): Technically  
3 you're hearing that it's -- it's possible and we  
4 are doing it at other projects, but contractually  
5 we are already contractually obligated to sell all  
6 the kilowatt hours to the utilities.

7 So if there was a change in how the  
8 kilowatt hours flowed, in other words, they flowed  
9 into a battery and then out into the grid that  
10 would require, I'm imagining, a change in the  
11 contractual obligations that we have with the  
12 utilities and the power purchase agreement.

13 In addition, the project will be  
14 financed and if the electrons are going different  
15 than what's contemplated on the existing power  
16 purchase agreement that agreement would also have  
17 to be renegotiated.

18 THE CHAIRMAN: Okay. I hear that.

19 I guess the other part of my question is  
20 resiliency, and this probably is a question more  
21 aptly placed to DEEP or somebody else -- but  
22 they're not going to be here and you're here.

23 Is it my understanding that if for some,  
24 or due to some a major event, whether it's a  
25 storm, a cyber attack or whatever, that if the

1 grid goes down this project will not provide any  
2 electricity to anybody?

3 THE WITNESS (Walker): That's correct.  
4 That's a requirement of the utility. The utility  
5 requires us put in protection devices so that the  
6 system has to shut down in milliseconds, I believe  
7 it is, so that we don't damage the rest of the  
8 utility system by generating power when the rest  
9 of the utility system is off.

10 And from their standpoint they view it  
11 as safety. They don't want someone working on  
12 a -- to repair power lines, but the power lines  
13 are still live with electricity because we're  
14 generating into that. So that's a complex topic.  
15 We are currently -- we are following the safety  
16 regulations/requirements that are -- that we must  
17 follow to meet the utility interconnection.

18 THE WITNESS (Lindsay): The only thing I  
19 would add is it wouldn't be any different if there  
20 was a battery on site. If the grid was down there  
21 would still be a requirement that we would have to  
22 shut down to not feed in for safety purposes.

23 But the fact that the facility is there,  
24 you know, if the grid is not down or, you know, if  
25 there's sources of electricity that are down but

1 the grid is not, then that doesn't preclude the  
2 system from continuing to provide electricity to  
3 the grid if the grid itself is not down.

4 THE WITNESS (Walker): So what you're  
5 referring to is something called a micro-grid.

6 THE CHAIRMAN: Well for example, a  
7 portion of this could be -- I mean, we've done  
8 minor. We've had major -- well, I shouldn't be  
9 the one testifying. So -- but catastrophes.

10 And for us to be doing something that at  
11 least in theory could service, I don't know,  
12 500 -- or 5,000 homes, or a hospital or something.  
13 And just to be blind and when there's technology  
14 available, I mean, I have solar on my roof. So if  
15 the grid goes down I can look at the solar panels  
16 and I don't have any electricity.

17 But I've also been told if I'm willing  
18 to pay the money and I want to install batteries  
19 and a different kind of inverter, I could at least  
20 have part of that servicing my refrigerator.

21 THE WITNESS (Walker): That's correct.

22 THE CHAIRMAN: So I'm having trouble  
23 understanding other than why it's not -- it  
24 wouldn't be feasible. In the case of something  
25 which we might say will only happen in a hundred

1 years, but we've had more than one in this  
2 hemisphere happen in the last month or two, that  
3 we can't be thinking about how to make these  
4 things resilient.

5 But again, the question is probably  
6 better asked of both DEEP and the utilities, which  
7 obviously are not here.

8 THE WITNESS (Walker): Right. What  
9 you're asking are, could we have a micro-grid set  
10 up? In your house you can install what's called a  
11 nano-grid. And that allows your house to what's  
12 referred to as being islanded from the grid so  
13 that you can still run power within your house.

14 And you might do this with either a  
15 solar array or a Generac charging station -- and  
16 that's right. The protective devices will shut  
17 the power off from going out into the grid while  
18 you can still receive power in your house.

19 This is a separate system that where the  
20 power is going right into the grid. So -- and we  
21 are required by law and by regulation to meet the  
22 utilities' requirements for safety in milliseconds  
23 to have that unit shut down. We have no -- it's  
24 not our role. You know, we must do that or we're  
25 not going to be given the -- we're not going to be

1           allowed to interconnect to the utility. We don't  
2           have a choice at that.

3                         Alternatively, we are working in other  
4           communities where we have a solar array, let's  
5           say, on a parking area and that parking area is at  
6           a middle school, and the middle school is used as  
7           a shelter during a storm. So we've set up in a  
8           way with a special inverter that that school can  
9           be islanded from the utility and only the school  
10          gets the power.

11                        So it's beyond what -- what any of us  
12          here can tell you. It requires changes in how  
13          utilities think about islanding, think about  
14          micro-grids. This is not a micro-grid project.  
15          It's a project to sell power right into the grid  
16          at a wholesale level.

17                        THE CHAIRMAN: No, no. I understand  
18          what it is. I just think it's being shortsighted  
19          and I'm not pointing the finger at you. I think  
20          it's shortsighted by the regulators, those who are  
21          doing the regulation and at least state that they  
22          want resiliency. And utilities always have to  
23          be -- I'm trying to look for the polite word --  
24          nudged into the 21st century. We'll leave it at  
25          that.

1           MR. SILVESTRI: I'd like to continue  
2 with the first set of responses to the  
3 interrogatories. The next one I have is a  
4 response to number 26 regarding the access road.

5           The proposed access road would have a  
6 width of 12 feet. Is that correct?

7           THE WITNESS (Bukowski): Yes, it's a  
8 minimum width of 12 feet. It does vary somewhat.  
9 We've designed the road to be able to accommodate  
10 a fire truck, a typical pumper truck. So around  
11 some of the radii of the road the width expands a  
12 little bit just to accommodate the turning radius  
13 of the truck.

14          MR. SILVESTRI: Have you had discussions  
15 with the town emergency responders on that?

16          THE WITNESS (Bukowski): We have not.

17          MR. SILVESTRI: Okay. So what guideline  
18 are you using that it would fit the emergency  
19 response vehicles?

20          THE WITNESS (Bukowski): So the design,  
21 we just use a typical pumper truck which is, I  
22 think, 40-something feet long.

23          MR. SILVESTRI: And also with the  
24 access, is there another access to Candlewood  
25 Mountain Road other than Route 37?

1 THE WITNESS (Lindsay): Do you mean an  
2 access from the project?

3 MR. SILVESTRI: To get into the project?

4 THE WITNESS (Lindsay): No.

5 MR. SILVESTRI: You need to come in on  
6 Candlewood Mountain Road. Thirty-seven seems to  
7 be the only way that you can get into Candlewood  
8 Mountain Road.

9 THE WITNESS (Lindsay): Thirty-seven?  
10 I'm not sure if I'm following. The access to the  
11 project is off of Candlewood Mountain Road.  
12 That's the only access.

13 MR. SILVESTRI: Right. And again,  
14 coming from outside the area?

15 THE WITNESS (Lindsay): You mean, Route  
16 7? Or --

17 MR. SILVESTRI: I thought it was 37?

18 THE WITNESS (Butler): Route 7 is north.

19 THE WITNESS (Lindsay): Route 7 is  
20 the -- yeah. I think Route 7 is the main, but  
21 maybe there's another access to the south.

22 MR. SILVESTRI: Yeah, Michael mentioned  
23 to me 37, yeah, would lead into it off of 7. But  
24 that's the only way to get into Candlewood  
25 Mountain Road is what I'm getting at?

1 THE WITNESS (Lindsay): That would be  
2 the primary way.

3 MR. SILVESTRI: Again, staying with the  
4 first set of interrogatories. Looking at the  
5 responses for 55 and 56 which talks about aquifer  
6 protection and wells. Do you know what the depth  
7 is to groundwater overall at the site?

8 THE WITNESS (Foster): Yeah. Based on  
9 the wet soil surveys on the project site the depth  
10 is about 18 to -- it's about 18 to 37 inches on  
11 the solar array site.

12 MR. SILVESTRI: And do you know the  
13 location of the nearest well to the site?

14 THE WITNESS (Lindsay): We have not done  
15 a definitive survey, but we anticipate the nearest  
16 well would be 4 to 5 hundred feet away at one of  
17 the residences on Candlewood Mountain Road.

18 MR. SILVESTRI: Again, going back to the  
19 racking system and looking at the response to  
20 question number 61. What are the ground screws  
21 actually made of?

22 THE WITNESS (Bukowski): I believe  
23 they're steel.

24 MR. SILVESTRI: Plain steel or  
25 galvanized?

1 THE WITNESS (Bukowski): That, I don't  
2 know.

3 MR. SILVESTRI: Okay.

4 Staying with the screws, do the ground  
5 screws actually go directly into the ground? Or  
6 is there some type of pre-drilling that would have  
7 to be done?

8 THE WITNESS (Bukowski): It depends on  
9 the soils. So in rocky conditions like this there  
10 would typically be some pre-drilling.

11 MR. SILVESTRI: So rocky outcrops you'd  
12 have pre-drilling, but non-rocky outcrops they  
13 might be able to go directly into the ground.

14 THE WITNESS (Bukowski): Correct.  
15 Sometimes -- depending on the contract and  
16 sometimes they will have to predrill all the holes  
17 because it makes the ground screws go in a little  
18 bit quicker.

19 MR. SILVESTRI: And they would be  
20 drilled, not driven?

21 THE WITNESS (Bukowski): Correct.

22 MR. SILVESTRI: Okay.

23 How many machines do you envision would  
24 be operating at one time to screw in the anchors?

25 THE WITNESS (Bukowski): I think that's

1 to be determined depending on the final schedule,  
2 but typically if they're predrilling there may be  
3 one machine that does the predrilling and another  
4 one that comes behind it to advance the ground  
5 screws.

6 MR. SILVESTRI: And what type of noise  
7 impact would there be using a screw drilling  
8 machine?

9 THE WITNESS (Bukowski): I don't know  
10 what the decibel level is, but it would sound  
11 similar to a typical drill rig. It's usually a  
12 small rig, almost like a geo-probe type rig. I'm  
13 not sure if you're familiar with that, but I mean,  
14 the workers around it would be wearing hearing  
15 protection. I'm just not sure exactly how far  
16 that noise would -- would extend out.

17 MR. SILVESTRI: Yeah, I'm looking at how  
18 far it may extend, what could be potential impacts  
19 to the residents during different times of day,  
20 but I don't think anybody would want to be  
21 disturbed with a 7 a.m. noise such as that. You  
22 know, hence my question of a concern that I have.

23 THE WITNESS (Lindsay): Yeah, and that's  
24 the -- I mean, the level of noise from a driver  
25 like that is, you might say it's typical of a

1 construction project. We would work within the  
2 hours allotted, the workhours allowed by the Town.  
3 You know, we wouldn't be working outside any  
4 normal work hours.

5 And the distance to the -- and this is  
6 not a -- where this is going to be happening is  
7 going to be within an area that's going to be  
8 encircled by -- by trees and it's going to be  
9 several hundred feet away from the nearest  
10 residents.

11 MR. SILVESTRI: No, and understood.  
12 It's just I don't know what kind of noise to  
13 expect. That's why I was asking the question.

14 One more I have on the interrogatories.  
15 It kind of goes with question 66 and question 67,  
16 you know, getting major deliveries, doing  
17 construction. Overall what kind of plans do you  
18 have for site security during construction and for  
19 equipment deliveries?

20 THE WITNESS (Bukowski): So, I'm sorry.  
21 You're asking the number of deliveries per day?

22 MR. SILVESTRI: No. I'm asking for site  
23 security. You're having deliveries made to the  
24 site. What do you have for security to make sure  
25 whatever equipment is there stays there, does not

1 get tampered with, et cetera?

2 THE WITNESS (Bukowski): I think that's  
3 to be determined. Sometimes Ameresco has used a  
4 temporary construction fence around staging areas  
5 or around the area where things are being stored.

6 MR. SILVESTRI: Would you propose  
7 security guards?

8 THE WITNESS (Lindsay): We don't  
9 typically do that. In -- in this location I would  
10 anticipate not proposing security guards, but it's  
11 something that we'll look at, you know, when we  
12 get to that point. It's just not something that  
13 we typically have to do.

14 MR. SILVESTRI: Thank you.

15 I have two other topic areas that I'd  
16 like to cover. You had mentioned before that you  
17 didn't think that the revised tilt from 15 degrees  
18 to 12 degrees would have an impact on the glare  
19 analysis for FAA, but if you could turn back to  
20 the FAA data that you had submitted?

21 I do have some questions regarding the  
22 results, the computer printouts that were there.  
23 This, this goes back to attachment three of the  
24 interrogatory set.

25 THE WITNESS (Lindsay): Of the

1           interrogatories?

2                       MR. SILVESTRI:  Yeah.  There was an  
3           attachment.  I believe it was the interrogatory.  
4           It might have been the application itself that was  
5           submitted.  My papers get mixed up after a while,  
6           but the topic of it was solar glare hazard  
7           analysis flight path report.

8                       Did you find it?

9                       THE WITNESS (Lindsay):  Uh-huh.

10                      MR. SILVESTRI:  Okay.  The first section  
11           talks about south flightpath and right below the  
12           heading it says, glare found.  And I'm wondering  
13           what that means.  If you could explain those two  
14           words?

15                      THE WITNESS (Lindsay):  So if you look  
16           in the actual printouts what it found is that for  
17           a very short period during one part of the year  
18           there is what is referred to in the output as low  
19           potential for temporary afterimage, and that is  
20           the terminology that's used in the glare analysis  
21           model for saying that there's, for a short time  
22           along that flightpath, there's a small amount of  
23           glare.

24                      And it's color coded because typically  
25           what they look at is if you're in yellow or red,

1 when you actually have the potential, then that's,  
2 you know, something to look at further. But if  
3 you're in low potential or, you know, you've got a  
4 short-term minimal amount of glare it's, you know,  
5 not typically considered a significant issue.

6 So it's not -- what it means is that  
7 some amount of glare was found at some particular  
8 point and that's what we show in the output, but  
9 it's -- it's referred to as low potential for  
10 temporary afterimage.

11 MR. SILVESTRI: Does the FAA look at  
12 that and still say that would be acceptable?

13 THE WITNESS (Lindsay): Yes, but the FAA  
14 does not need to look at -- they don't require  
15 looking at a glare for a non-federally funded  
16 airport. So it's not something that -- they  
17 evaluate the obstruction issue and, you know, the  
18 glare issue is -- the glare is not -- is not  
19 looked at for an airport like this one, but we  
20 evaluate it anyway, obviously.

21 MR. SILVESTRI: Let me see if I can ask  
22 maybe a more qualifying question to get this clear  
23 in my head. You have flightpath observation  
24 points that are listed throughout that appendix  
25 and it has thresholds of different mileage, a

1 quarter mile, half mile, three quarters of a mile.  
2 And then over on the right-hand side it basically  
3 has a question of yes or no for glare.

4 THE WITNESS (Lindsay): Right.

5 MR. SILVESTRI: How many yes' would say  
6 you have a problem?

7 THE WITNESS (Lindsay): I don't know the  
8 answer to that. You know, it's subjected to, you  
9 know, it would be subject to some further  
10 evaluation. But as you can see, you know,  
11 there's -- there's one, yes.

12 MR. SILVESTRI: Yeah. I caught a  
13 quarter mile on the northern approach as a yes.  
14 And again, I don't know if it's good or bad, but I  
15 wanted to try to get some clarity as to what the  
16 report meant?

17 THE WITNESS (Lindsay): Again, it's  
18 considered a very minimal glare for a short period  
19 of time.

20 MR. SILVESTRI: One last question I have  
21 goes back to the interrogatories. This time it's  
22 the response to number 52 and it mentions that the  
23 topic is invasive species control plan.

24 And the response was that there is no  
25 invasive species control plan for the project as

1           there's minimal potential for invasive species  
2           becoming established in disturbed wetland areas,  
3           but I believe the whole project calls for the  
4           possibility of importing topsoil.

5                         Is that correct?

6                         THE WITNESS (Bukowski): The plan is to  
7           try to reuse as much as possible on site, but if  
8           there is any importing that that may be a  
9           possibility.

10                        MR. SILVESTRI: So if you import  
11           wouldn't it be advisable to have an invasive  
12           species control plan?

13                        THE WITNESS (Bukowski): Yes.

14                        MR. SILVESTRI: Thank you.

15                        Thank you, Mr. Chairman.

16                        THE CHAIRMAN: Thank you.

17                        Mr. Levesque, do you have a question?

18                        MR. LEVESQUE: A few after that.

19                        Why don't you look at your petition, the  
20           main volume, attachment eight. It's the New  
21           Milford farmland and forest preservation committee  
22           memorandum. And you know, you might have answered  
23           some of this already in your interrogatory answers  
24           or other parts, but how about just the  
25           recommendation number two?

1           You want to answer that? That's a  
2 simple one. The question was planting pasture  
3 grasses instead of traditional turfgrass.

4           THE WITNESS (Lindsay): I don't think we  
5 have any issue with that and we would be willing  
6 to do that and work with them on that.

7           MR. LEVESQUE: Where you'll consult with  
8 your experts and put something in the detailed  
9 plan later, something suitable for you?

10          THE WITNESS (Lindsay): Yeah.

11          MR. LEVESQUE: And how about the more  
12 unusual one, and more creative, but using sheep or  
13 other livestock to graze the area, or parts of it?

14          THE WITNESS (Lindsay): We have looked  
15 into it. We can't commit to that at this point.  
16 It is a potential liability issue. We understand  
17 what they're getting at. It's just not something  
18 that has typically been done. So it's -- it's not  
19 something that we have committed to at this point.

20          MR. LEVESQUE: I guess the sheep are  
21 rather large animals. Did you get a chance to  
22 research, or in the future examine any such  
23 examples like in places they have more developed  
24 smaller scale farms like with solar, like in  
25 Germany or in Italy?

1           THE WITNESS (Lindsay): We haven't -- we  
2 haven't found any specific instances. My guess is  
3 that there could be. We just haven't found them.  
4 I know that it's even been talked about in Vermont  
5 at some locations, but I'm not sure if it's been  
6 implemented.

7           It's a challenge -- and I don't know,  
8 Jim, if you want to add anything. It's  
9 challenging in terms of getting financing and  
10 covering there, the interests in terms of  
11 liability.

12          THE WITNESS (Walker): We yet haven't  
13 picked the final bank that's going to provide the  
14 financing, but we have talked to -- and these are  
15 major banks. These are very large banks in the  
16 United States. They are very conservative and  
17 they are -- so far they're not keen on this idea  
18 and they will be the ones that make the final  
19 decision.

20          MR. LEVESQUE: I mean, in speaking in  
21 favor in farmland and forest preservation and our  
22 own state agricultural department, you do have a  
23 fenced in area. You do have grass, and I can see  
24 that you wouldn't want to do it for the whole  
25 area, but it would be quite better supported for

1 future projects if you tried something smaller, a  
2 demonstration project.

3 Or even like -- I just came back from  
4 Italy and I was surprised at the number of free  
5 range chickens I saw. Hundreds of them everywhere  
6 I went in small roads. They were just loose in  
7 the vineyards and eating a lot of stuff there in  
8 the grass, the bugs, the seeds and whatever. And  
9 they're sort of smaller and less of an impact, but  
10 then you need a complicated lease agreement with  
11 some local farmer to comply with your leasing  
12 requirements.

13 Okay. And how about number five? You  
14 did address some of this already, the public  
15 access for the area of the Blue Trails. Have you  
16 finalized that yet?

17 THE WITNESS (Lindsay): It's not  
18 finalized, but I think that it's contemplated  
19 given that we have made a proposal to set aside a  
20 considerable amount of land, approximately a  
21 hundred acres that includes the terminus of the  
22 Blue Trail.

23 I think I can speak for the -- our land  
24 development partner, that they would, you know,  
25 that would -- that would be something that we

1 would work into making access to that -- to that,  
2 some public access to that area.

3 MR. LEVESQUE: Some already exists, so  
4 you'll be able to contact the Connecticut Forest  
5 and Park Association and DEEP?

6 THE WITNESS (Lindsay): Correct.

7 MR. LEVESQUE: Okay. Thank you very  
8 much.

9 THE CHAIRMAN: Thank you. I have a few  
10 questions.

11 Really quickly, in your site search did  
12 you limit -- was it to just Connecticut for sites  
13 for a project such as this? Was it limited to  
14 just Connecticut?

15 THE WITNESS (Walker): For what we were  
16 doing we were just -- this was just limited to  
17 that area with our -- with the land owners. We  
18 did not do -- Ameresco did not do a site search at  
19 that time in Maine or New Hampshire or other parts  
20 of Connecticut.

21 This project site became available. We  
22 looked at it and it made sense to us in the  
23 timeframe that we had to respond to the RFP.

24 THE CHAIRMAN: Okay. Thank you. And I  
25 just want to be clear as far as your mitigation

1 strategies, specifically it's a hundred acre  
2 preservation. Is that correct?

3 THE WITNESS (Lindsay): That's correct.

4 THE CHAIRMAN: Okay. And you're looking  
5 for an entity to receive it?

6 THE WITNESS (Lindsay): That's right.

7 THE CHAIRMAN: And that's your  
8 mitigation that you're proposing. Right?

9 THE WITNESS (Lindsay): Well, there's --  
10 there's several elements to what we've done in  
11 terms of mitigating impacts to vernal pools and  
12 local species, which -- some of which has been  
13 discussed. And I won't detail all of those, but  
14 the setting aside of the area of land as part of  
15 what we're doing to mitigate the impacts of the  
16 project.

17 THE CHAIRMAN: Okay. I believe staff  
18 brought this up, and maybe others. The issue of  
19 whether or not some of the solar arrays that are  
20 in the steeper parts may be closer to more  
21 environmentally sensitive areas could be relocated  
22 to the five-acre field and I'm not talking about  
23 not necessarily the whole five acres. And I think  
24 you mentioned there's a visibility issue.

25 Are there other issues that would

1 preclude that?

2 THE WITNESS (Lindsay): Visibility is  
3 also the complexity that's added in terms of  
4 adding an area that's quite a distance away from  
5 the main array. So there is some additional  
6 complexity regarding needing to connect that area  
7 to the -- to the main array and to the point of  
8 connection to the interconnection route.

9 And so you know, part of our evaluation  
10 of the site was that we could do it in such a way  
11 that it did make it quite removed from, you know,  
12 local residents, make it less visible. And so  
13 this kind of changes that, but also the  
14 complexity.

15 THE WITNESS (Walker): We did evaluate  
16 it, because to be quite honest we would prefer to  
17 be at 15 degrees and we would prefer to be in a  
18 footprint that we were originally in.

19 But we moved. We changed the tilt angle  
20 a little bit and we moved the array to accommodate  
21 the, you know, the information that we had from  
22 our last hearings.

23 But we did also look at, well, could we  
24 use that property, that particular property? We  
25 did not do, you know, a thorough analysis of what

1 electrically that would mean, but our number one  
2 concern of using that property was we already knew  
3 that the neighbors were not happy with the site.  
4 And we decided, well, let's not cause any more  
5 concern. Let's just stay away from that site, and  
6 so that was a unilateral decision that we made and  
7 we stopped looking at it.

8 THE CHAIRMAN: Okay.

9 This is a very broad, broad question,  
10 but I think maybe this might be helpful just to  
11 have it on the record. And that is the three  
12 states got together for this RFP, for these  
13 renewable, for the RECs with utilities -- I'm  
14 oversimplifying it.

15 Behind that, why are we doing this? Why  
16 aren't we just looking for a site -- and I'm not  
17 saying by any means it would be this site -- but  
18 approximately a 30-acre site that would have  
19 availability of gas in interconnection and just  
20 build a powerplant, you know, which would be gas  
21 which is relatively economical and relatively less  
22 polluting?

23 So again, this is a policy issue, but  
24 again, I think maybe it would be helpful to have  
25 it on the record. Why are we even going through

1           this process?

2                         THE WITNESS (Walker): Well, that is a  
3 policy issue and the states all have renewable  
4 portfolio standard requirements that are built  
5 into their laws. And they must meet the  
6 increasing renewable portfolio standard  
7 requirement year over year. And I'm not sure of  
8 the requirement in Connecticut, but in  
9 Massachusetts it increases 1 percent per year.

10                        So the states all got together with the  
11 utilities and decided that a combined request for  
12 proposal was the most cost-effective, beneficial  
13 way in which to obtain renewable energy supplies  
14 and to meet the renewable portfolio standards for  
15 ratepayers. And in fact, DEEP was quite explicit  
16 in the RFP and in the analysis, that it would  
17 follow in the RFP that it was -- it would be a  
18 cost-effective selection for ratepayers. That was  
19 the main decision.

20                        Now with respect to natural gas, that's  
21 both a policy issue and also a physical issue.  
22 You may be aware that it's very -- the natural gas  
23 pipeline system, interstate pipeline system is  
24 constrained into New England. All the capacity on  
25 the existing pipelines is rented out, if you will,

1           for the firm natural gas ratepayers which are the  
2           natural gas ratepayers that use natural gas for  
3           heating in the wintertime.

4                     In the wintertime during -- a cold spell  
5           has happened during that several years ago. You  
6           may recall that electricity prices spiked and  
7           that's because there was not enough natural gas to  
8           supply the electric powerplants that required  
9           natural gas, because the gas was going to home  
10          heating uses.

11                    So from a policy standpoint there's a  
12          decision to diversify from being solely dependent  
13          upon natural gas, because natural gas is  
14          constrained in the wintertime. And in the  
15          wintertime you may not be able to get the  
16          electricity that you hope to get, which is why  
17          they've had additional RFPs for wind in  
18          Massachusetts, wind and hydropower.

19                    That's a long-winded answer, but it's a  
20          policy decision.

21                    THE CHAIRMAN: Okay. I just have one  
22          last question, because I think some of us are  
23          getting hungry -- oh, Mr. Perrone.

24                    MR. PERRONE: Thank you, Mr. Chairman.  
25          Just two final questions. I understand you

1 changed to a different inverter design. With the  
2 updated inverter/transformer combos would you  
3 still be able to meet the DEEP noise control  
4 standards?

5 THE WITNESS (Lindsay): Yes.

6 MR. PERRONE: And lastly, with the  
7 proposed revised configuration, about what would  
8 we be looking at for total project cost?

9 THE WITNESS (Walker): I don't have the  
10 exact number off the top of my head. It's in the  
11 40 million-dollar price range.

12 MR. PERRONE: Thank you. That's all I  
13 have.

14 THE CHAIRMAN: I just have one final  
15 question. It has to do with after the 20 years to  
16 decommission, the array is removed and potentially  
17 it could be used for either agriculture or  
18 reforested.

19 Would you be willing to work with the  
20 relative agencies whether it's DEEP or the  
21 Department of Agriculture, whoever, to make sure  
22 that your process for doing that results in soils  
23 that can then be reused in that way?

24 THE WITNESS (Walker): I'm not sure how  
25 to answer that. I'll ask our experts here.

1           As part of our agreement with the --  
2           with New Milford we agreed to change the zoning  
3           and it's currently zoned for high-density  
4           residential. And we agreed to rezone it to  
5           two acre zoning. Is that correct?

6           THE WITNESS (Lindsay): Correct.

7           THE WITNESS (Walker): After it's  
8           decommissioned, I can't remember what's the tab,  
9           but I know that we agreed that we would work with  
10          the Town to redo the zoning, and we'll do that now  
11          as we can.

12          THE WITNESS (Lindsay): Right. And I  
13          think -- I wouldn't speak for the landowner, but  
14          in terms of the impact on soils we don't expect  
15          there to be any impact on the nature of the soils  
16          from the project itself, because it's relatively  
17          low impact.

18          There would be some small holes drilled,  
19          as we know, but that's about it. I don't know if  
20          that's really answering your question.

21          THE CHAIRMAN: No, it does. It just  
22          clarifies some of -- apparently from the Town's  
23          standpoint, and I guess we could ask them when  
24          they are testifying. They would like to see this  
25          eventually a residential subdivision, a

1 low-density residential subdivision with houses,  
2 driveways, new roads, et cetera, and not  
3 necessarily reverted to a forest area.

4 That's probably a question for them.

5 THE WITNESS (Lindsay): That would be a  
6 question for them. The only thing we can say is  
7 that the pilot agreement includes a provision that  
8 we agreed to that would -- that would allow for a  
9 rezoning of the property, but that would have to  
10 go through the town zoning commission, too.

11 THE CHAIRMAN: Okay. We're going to  
12 break for lunch. We will come back here at 1:45.

13  
14 (Whereupon, a recess was taken from  
15 12:57 p.m. to 1:45 p.m.)

16  
17 THE CHAIRMAN: Good afternoon, ladies  
18 and gentlemen. I'd like to resume our hearing on  
19 this item we started this morning.

20 So we'll now continue with the  
21 appearance of the Department of Agriculture, a  
22 party to these deliberations. And we'll start  
23 with the swearing in of the witnesses by Attorney  
24 Bachman. So if the witnesses would please rise.

25 K I P K O L E S I N S K A S,

1       S T E V E       A N D E R S O N ,

2               called as witnesses, being first duly sworn  
3               by the Executive Director, were examined and  
4               testified under oath as follows:

5                       THE CHAIRMAN: Mr. Bowsza, since you  
6               didn't stand I assume you're sort of the  
7               commander-in-chief.

8                       MR. BOWSZA: Chief cook and bottle  
9               washer.

10                      THE CHAIRMAN: And you've offered  
11               exhibits under hearing program Roman numeral 4B,  
12               one through two for identification purposes. And  
13               we'll go through the process of verifying them, if  
14               it's okay with your witnesses.

15                      So I'll ask if -- and I guess each one  
16               can just, you know, give either an affirmative or  
17               a nod, or if they have any changes let us know.

18                      Did you prepare or assist in the  
19               preparation of Exhibit 4B, one through two, the  
20               two exhibits?

21                      THE WITNESS (Kolesinskas): Yes.

22                      THE WITNESS (Anderson): Yes.

23                      THE CHAIRMAN: Do you have any  
24               additions, clarifications, deletions or  
25               modifications of these documents?

1 THE WITNESS (Kolesinskas): No, I do  
2 not.

3 THE WITNESS (Anderson): No.

4 THE CHAIRMAN: Are these exhibits true  
5 and accurate to the best of your knowledge?

6 THE WITNESS (Kolesinskas): Yes.

7 THE WITNESS (Anderson): Yes.

8 THE CHAIRMAN: And do you offer these  
9 exhibits as your testimony here today.

10 THE WITNESS (Kolesinskas): Yes.

11 THE WITNESS (Anderson): Yes.

12 THE CHAIRMAN: Do you offer them as full  
13 exhibits?

14 THE WITNESS (Kolesinskas): Yes.

15 THE WITNESS (Anderson): Yes.

16 THE CHAIRMAN: Thank you.

17 Do any of the parties or interveners  
18 have any objection to the admission of these  
19 exhibits?

20 MR. MICHAUD: No.

21 THE CHAIRMAN: Okay. So the exhibits  
22 are admitted.

23 So we're going to begin  
24 cross-examination first by staff, Mr. Perrone.

25 MR. PERRONE: Thank you, Mr. Chairman.

1 I'd like to turn your attention to the  
2 interrogatory responses from the Department of  
3 Agriculture that the Council -- based on the  
4 Council's questions, number 18, where the Council  
5 was following up on a CEQ comment regarding the  
6 removal of stones and possible reclassification.

7 Anyway, in the Department of  
8 Agriculture's response it notes that a field visit  
9 is warranted to evaluate if the surface stones  
10 have been removed since the mapping was completed.  
11 And my question is, in your opinion would a field  
12 visit to evaluate the surface stone removal be key  
13 in determining if important farmland soils or  
14 prime farmland soils are present.

15 THE WITNESS (Kolesinskas): Yes, they  
16 would. That basically the -- some of the soils  
17 that are mapped have -- were listed as having a  
18 very stony or extremely stony surface modifier.  
19 And that is what has kept those soils out of being  
20 considered prime or statewide important  
21 categories.

22 And so a field visit would be necessary  
23 to go out there and look and see stone cover on  
24 the surface and extent of stone cover. And there  
25 are ways to determine whether or not there's

1 still -- if enough of them have been removed that  
2 they're no longer a barrier to agricultural use,  
3 particularly plowing and harvesting.

4 And if that's the case then they could  
5 potentially be reclassified into another category.

6 MR. PERRONE: And how could that  
7 evaluation be done? Would it just be visual, or  
8 would you take samples potentially?

9 THE WITNESS (Kolesinskas): Well, one of  
10 the -- one of the exhibits that we included there  
11 was the national soil survey manual. And the soil  
12 survey manual actually has information. This is  
13 from the soil survey manual. Rock fragments in  
14 the surface and how you evaluate them. And  
15 basically there's a percentage that you're looking  
16 at.

17 So it would be a visual test and you may  
18 do some transects, and it's -- it's basically  
19 stones that are over ten inches in size, stones or  
20 boulders, or what would be considered a barrier.  
21 So there's a process you'd go through of using a  
22 point count line intersect procedure to determine  
23 if -- how many are there to give a percentage and  
24 whether or not it has been changed since -- from  
25 the original mapping.

1 MR. PERRONE: Thank you very much.  
2 That's all I have.

3 THE CHAIRMAN: I just have a follow-up  
4 on that. But did anybody from the Department of  
5 Agriculture actually go to the site and do any of  
6 this investigation?

7 THE WITNESS (Kolesinskas): No, we did  
8 not do an on-site investigation. We were not  
9 asked to do an on-site investigation. And looking  
10 through the information from the consultant,  
11 basically they used the soil survey report from  
12 USDA NRCS. And it didn't mention whether or not  
13 they had evaluated those fields to see whether or  
14 not they -- it was mapped. The current mapping  
15 needed to be changed or evaluated.

16 THE CHAIRMAN: Okay. Mike, that's your  
17 question? Do you have any more?

18 MR. PERRONE: No.

19 THE CHAIRMAN: Now we'll go to  
20 cross-examination by members of the Council. Vice  
21 Chairman, Senator Murphy.

22 MR. MURPHY: I have no questions at this  
23 time, Mr. Chairman.

24 THE CHAIRMAN: Okay. Mr. Silvestri?

25 MR. SILVESTRI: Thank you, Mr. Chairman.

1           Two questions that I have for you. The  
2 first one, are you aware of any solar projects in  
3 Connecticut or perhaps elsewhere where viable  
4 crops have been planted and succeeded under solar  
5 panels?

6           THE WITNESS (Kolesinskas): I -- I'm not  
7 aware of any in Connecticut, but there, there are  
8 projects around the world where agricultural use  
9 has been designed as part of the project. And  
10 it's been as part of the project up front  
11 typically, and of either having some row crop  
12 production in between -- in between solar panels  
13 or making arrangements to have grazing paddocks  
14 that both would control vegetation and provide  
15 forage for livestock.

16           MR. SILVESTRI: Any specific on crops  
17 that you can recall?

18           THE WITNESS (Kolesinskas): I believe  
19 that there was a project in Japan where they were  
20 growing lettuce, and because it can tolerate some  
21 shade that they were growing some lettuce in part  
22 of the solar array.

23           MR. SILVESTRI: I'm curious. In your  
24 opinion, could things like potatoes, carrots, even  
25 mushrooms kind of flourish in those environments?

1           THE WITNESS (Kolesinskas): Obviously  
2           there needs to be a lot more information about,  
3           you know, what the soils are and the condition of  
4           the soils, how they were treated during the  
5           construction and installation project.

6           And you know, what kind of yields are  
7           going to be economically practical because  
8           obviously if the soils are disturbed or there's  
9           low light or there's other management  
10          considerations it may impact -- impact the yields.

11          And again, it depends, you know, is it  
12          annual -- annual crops or a perennial crop? So I  
13          certainly think it's possible to design a  
14          structure that may be able to have some -- some  
15          agricultural production with it, but obviously  
16          it's going to be very site specific.

17          MR. SILVESTRI: Thank you. The other  
18          question I have, if you think about the  
19          orientation of solar panels -- I've seen them at  
20          25 degrees. The current proposal here is for 12.

21          And from what I understand there is some  
22          type of spacing between the way the panels are  
23          laid out in the racks. However, the question I  
24          have for you is, what happens to the quality of  
25          soil below the panel racks if they receive, say,

1 no direct sunlight and a very limited amount of  
2 water?

3 THE WITNESS (Kolesinskas): Right.  
4 That's a good question. I would say there's a  
5 lack of research about the soil biological systems  
6 in a large-scale solar array. And though I would  
7 expect that it would have an impact on the  
8 biological community of the soil, and then also on  
9 cycling of nutrients in the soil system as well  
10 because a portion of it either having -- being in  
11 lowlight conditions and dryer.

12 And then on the front of the panel  
13 where, you know, you're going to have in  
14 Connecticut 48 to 58 inches of precipitation  
15 coming off the front of the panel, of having more  
16 precipitation in a very concentrated zone that you  
17 could get excessive amounts of leaching of  
18 nutrients.

19 MR. SILVESTRI: Thank you.

20 I have no further questions,  
21 Mr. Chairman.

22 THE CHAIRMAN: Mr. Harder?

23 MR. HARDER: No questions.

24 THE CHAIRMAN: Mr. Hannon?

25 MR. HANNON: Thank you, Mr. Chairman.

1           I mean, the question or questions I have  
2 really relate to your response to question 9,  
3 where can agricultural fields that are managed as  
4 grasslands for 20 to 25 years be restored from  
5 production?

6           I mean, my understanding is -- at least  
7 what was proposed on this is there would be some  
8 type of low-growing grass pretty much planted on  
9 the entire site even below and in front of, and  
10 behind all the panels. So there would be maybe  
11 one or two mowings a year to try to maintain that.

12           So I'm not sure I understand the  
13 response in saying the question is outside the  
14 scope of the proceedings because what's proposed  
15 for the majority of the project is not grasslands,  
16 but if grass is being proposed to help stabilize  
17 that area, I guess that's kind of where the  
18 question is. And I'm not sure I follow what your  
19 response was.

20           THE WITNESS (Kolesinskas): Okay. Well  
21 again, I would say what it -- what's being  
22 proposed is not grassland. What's being proposed  
23 is a large-scale solar array that may have some  
24 vegetation growing underneath to prevent erosion  
25 and stabilize the soil.

1           A definition of grasslands would be a  
2           plant community that's dominated by grassland  
3           species that's specifically managed for -- for  
4           certain kinds of ecosystem functions, whether it's  
5           for agriculture, whether it's for habitat or it  
6           could also -- you know, and it would have other  
7           functions.

8           So I don't really see it being managed  
9           as grasslands, per se. So that was part of the --  
10          of the comment.

11          MR. HANNON: Okay. So you're looking at  
12          the technical definition as to what you would  
13          consider to be grassland?

14          THE WITNESS (Kolesinskas): Right. And  
15          I don't want it to be misconstrued that this is a  
16          grasslands project. They're not attempting to  
17          clear this woodland and use these fields for  
18          grassland. They're using it for a solar array and  
19          they need to have some vegetation. They've chosen  
20          to have vegetation underneath as the cover rather  
21          than stone or woodchips, or some other kind of  
22          groundcover.

23          MR. HANNON: I was just trying to get a  
24          clarification as to your response in that, because  
25          the bigger question I have just in general is

1           whether or not there's any literature out there --  
2           and my guess is there's probably not -- about the  
3           long-term impact of solar projects on agriculture  
4           soils.

5                         If at some point in the future those  
6           solar projects are removed and you go back to the  
7           natural ground, what impact do those solar panels  
8           have on the quality of soil for agricultural  
9           purposes? Is there anything out there on  
10          research, or is this really sort of brand-new  
11          territory?

12                        THE WITNESS (Kolesinskas): Yeah, I  
13          would say it's brand-new territory. You know,  
14          probably the closest of anything that's, you know,  
15          might be decommissioned would probably be out  
16          there in California someplace.

17                        And I haven't seen any literature plus  
18          the, you know, soils and the climate are -- are so  
19          different there than they are here. Again, a lot  
20          of it depends on what did you start out with?  
21          What was -- what were the soil conditions to start  
22          with and how were they treated during the  
23          construction process, as well as how the soils and  
24          vegetation are treated throughout the lifespan of  
25          the project would all have an impact on its

1           suitability and its potential for agriculture  
2           afterwards.

3                       MR. HANNON:   In your professional  
4           opinion do you feel as though if you take these  
5           agricultural soils out of use for agricultural  
6           purposes for 20, 25 or 30 years, might they still  
7           be a valuable agricultural soil?   Or not?

8                       I mean, I just wonder what you're sort  
9           of best guess is on that.   I know you've got a  
10          long history in dealing with these types of  
11          things.   I'm just curious as to what your opinion  
12          is?

13                      THE WITNESS (Kolesinskas):   Right.  
14          Again, I think a lot of it depends on how the --  
15          how the project was implemented.   You know, is  
16          there -- is there grading that's disturbing the  
17          soils?   Is there a lot of trenching?   Was there  
18          erosion on the site?   Was there a lot of heavy  
19          equipment that was used that's created compaction?

20                      So it's -- it's possible that after it's  
21          decommissioned that there may be, you know, deep,  
22          deep compaction that you really -- the evidence is  
23          that you can't really get rid of deep compaction  
24          that's -- that's more than two feet down.   And  
25          that it may take a number of years before you

1 would be able to restore a certain level of  
2 productivity to it.

3 And then, you know, here because most of  
4 Connecticut -- because of our soil parent material  
5 which tends to be fairly acid, that the soils  
6 would continue to acidify to some extent. So if  
7 they're not -- if the soil fertility isn't managed  
8 it could take a number of years to restore soil  
9 fertility for a certain kind of crop production as  
10 well.

11 So I'd say it's, you know, it's  
12 potential for future use for agriculture depends a  
13 lot on the soils that you started with and then  
14 how they're managed through the construction  
15 process and how much disturbance. The more  
16 disturbance the more likely it is that they're  
17 going to be degraded for the long term.

18 THE CHAIRMAN: And just one final  
19 question. One of the things that the Council has  
20 been discussing on past projects that are sort of  
21 larger in scope is on a project like this where  
22 there is sort of that outside boundary line where  
23 it's being cleared so that you don't have shading  
24 on the panels, does that lend itself for planting  
25 or growing some type of pollinator crops?

1           Is that something that would be looked  
2           at favorably?

3           THE WITNESS (Kolesinskas): Well  
4           certainly, you know, pollinators are in trouble  
5           around the world and increasing pollinator habitat  
6           is certainly valuable from a, you know, a  
7           biological system, from an ecosystem perspective.

8           As far as its benefit for agriculture  
9           specifically, certainly some of it would depend,  
10          you know, are there crops being grown in  
11          agriculture nearby that would benefit by having  
12          additional pollinator plantings?

13          And then the thing is, too, is that to  
14          actually manage it for pollinator plantings is  
15          more than -- it's probably going to be more than  
16          just, you know, mowing it twice a year, because of  
17          course we have a tremendous problem with -- with  
18          invasive species and species that would very  
19          quickly take over.

20          So it would take active management to be  
21          able to keep it longterm as pollinator habitat.  
22          And again, depending on the kind of agriculture  
23          that's nearby, a pollinator habitat could be --  
24          could be helpful.

25          MR. HANNON: Thank you. I have no

1 further questions.

2 THE CHAIRMAN: Mr. Lynch?

3 MR. LYNCH: Just a couple questions. My  
4 first one is just I'm having a hard time figuring  
5 out why you're here. In my neck of the woods a  
6 lot of farmers, be they tobacco or vegetable  
7 farmers are losing the land or selling their land.

8 Now does this mean that every time they  
9 want to sell it or develop it the Department of  
10 Agriculture is going to come into a state agency  
11 or to a local planning and zoning and tell them  
12 what they can do with that land?

13 It's a loaded question. I know.

14 THE WITNESS (Kolesinskas): Yeah, I  
15 don't know. Do you want to take a shot at it  
16 first, Steve? Or no? I certainly would have some  
17 thoughts on that.

18 THE WITNESS (Anderson): Well, I think  
19 the reason why we're here is it's specifically  
20 about -- it's more related to the statute and  
21 whether or not the statute applies in this case.

22 MR. LYNCH: Could you repeat? I just  
23 can't hear it. I'm a little hard of hearing.

24 THE WITNESS (Anderson): The reason why  
25 we're involved in this is more related to 17-218.

1 MR. LYNCH: That doesn't apply.

2 THE WITNESS (Anderson): Well, that's  
3 why we became a party, and you know, that's why  
4 we're here. That's why we're here in this case.

5 I mean, I know that since then you guys  
6 have said that it doesn't apply, but that's why we  
7 became a party and that's why we're here. And you  
8 know, I don't know if you have more to add to  
9 that?

10 THE WITNESS (Kolesinskas): Well, I  
11 guess that I would say that, you know, wherever  
12 there's a significant land-use change we need to  
13 have all the relevant facts and as much  
14 information as possible as far as the impacts of a  
15 major land-use change. And so to not consider the  
16 impacts on prime and important farmland on  
17 agriculture in any land-use change I think is  
18 very, very shortsighted.

19 So it doesn't matter to me whether it's  
20 a hundred-acre subdivision or a hundred-acre solar  
21 array. It still deserves that everyone has the  
22 relevant facts and understands the impact on  
23 natural resources. And soils are very important  
24 natural resources and they're only going to become  
25 more important.

1           MR. LYNCH: And I just wanted to make it  
2 clear that it wasn't just the solar group that was  
3 being done. That it would be commercial and  
4 residential development also?

5           THE WITNESS (Kolesinskas): Well,  
6 there's -- there's a process. Again, if there's  
7 federal funds that are involved in a process,  
8 there's the Federal Farmland Policy Protection Act  
9 that applies. And if there's state funds involved  
10 there's a process overview that applies. And at  
11 the municipal level there's a process of review of  
12 looking at the impact and what -- what kind of  
13 review and information is required.

14          MR. LYNCH: Thank you.

15          My next question really revolves around  
16 renewable energy. And right now it seems to be  
17 the -- the number one choice seems to be solar.  
18 And you need -- my panel can correct me if I'm  
19 wrong, but you need at least five acres to produce  
20 one megawatt of power. And when you get the  
21 larger solar development farms coming in, you  
22 know, they will use up a lot of land that you're  
23 talking about that you want to protect.

24                 Where do you see -- if you want to get  
25 20 percent renewable power over the next few years

1 state and federal, what would you suggest as an  
2 alternative to solar panels?

3 THE WITNESS (Anderson): As an  
4 alternative technology to solar panels, or  
5 alternative locations? I mean, we've suggested --

6 MR. LYNCH: Actually I didn't think of  
7 location, but I'll take both.

8 THE WITNESS (Anderson): We've suggested  
9 areas like brownfields, places like that,  
10 alternative locations. Certainly, you know,  
11 groups of buildings and, you know, any large areas  
12 as an alternative. But -- and what was -- the  
13 rest of it was?

14 MR. LYNCH: Just the alternative  
15 technology?

16 THE WITNESS (Anderson): Alternative  
17 technologies? You know, wind. You know, I mean,  
18 there's other areas. I mean, we were up at  
19 Southbury training school and we had got some land  
20 up there that the department has custody and  
21 control over. There's some good winds up in that  
22 part of the state. And you know, so there's wind  
23 and there's also offshore wind that are sort of  
24 alternative technologies.

25 And anaerobic digesters, another

1 technology that could be explored. That's a  
2 renewable class one, I believe. So that's another  
3 one.

4 MR. LYNCH: And now you mentioned  
5 brownfields, and this was a question I was going  
6 to ask the panel. I'll get to it later, but with  
7 brownfields it's not always conducive to being  
8 into the southwest sunlight. You know, isn't that  
9 a restriction on some brownfields? You know,  
10 you've got to have some sun.

11 A lot of brownfields may still have, you  
12 know, buildings surrounding them that would make  
13 it rather, you know, not very conducive to putting  
14 in solar panels.

15 THE WITNESS (Anderson): Yeah, I really  
16 am not in a position to answer that. I'm not  
17 really an expert on the siting of the --

18 MR. LYNCH: It's a question I'm going to  
19 ask them later on.

20 THE WITNESS (Anderson): The best  
21 location as far as orientation goes and what they  
22 go with, someone else would have to answer that.

23 MR. LYNCH: Thank you.

24 THE WITNESS (Kolesinskas): Again, I  
25 just would make the point that this, you know,

1 Connecticut is, from what we know about land use,  
2 land cover, is only about 12 percent agricultural  
3 land and only about 7 percent of that is  
4 agricultural fields.

5 And so there's a smaller percentage of  
6 that that's primarily important farmland that is  
7 our best agricultural soil, but we're 39 percent  
8 developed. So there's certainly plenty of  
9 brownfields and rooftops and buildings at other  
10 locations that can be used.

11 We should always use developed  
12 properties before green fields if we can.  
13 Sometimes it does need to be used, green fields  
14 for certain purposes where it makes sense, but  
15 again we need to have a much more thorough  
16 discussion about where any sort of a large solar  
17 array project goes.

18 And again, access, farmland access is a  
19 real problem in this state and taking a large  
20 chunk of farmland out of an agricultural community  
21 has a lot of unintended consequences.

22 MR. LYNCH: Understood.

23 Thank you very much, Mr. Chairman.

24 THE CHAIRMAN: Mr. Hannon has a  
25 followup.

1           MR. HANNON: With your comment you just  
2 reminded me of a question. It looks as though in  
3 the State we're starting to see more projects that  
4 are being promoted for hydroponics. And is that  
5 something that can help offset some of the loss of  
6 prime ag soils?

7           THE WITNESS (Kolesinskas): Hydroponics  
8 and greenhouses are certainly a component of crop  
9 production, but there are some crops that don't  
10 lend themselves well to that and this a very --  
11 there's an up-front cost to those kinds of  
12 facilities.

13           The other thing is, too, there are not  
14 only some agricultural products that have to be  
15 grown out of doors, the other thing is, is that  
16 those agricultural landscapes provide so many  
17 other ecosystem goods and services and social and  
18 economic benefits that you're just not going to  
19 get.

20           So it's not simply about agricultural,  
21 you know, product and dollar value. It's -- it's  
22 all those other things that well-managed  
23 agricultural land can provide as well.

24           MR. HANNON: Okay. Thank you.

25           THE CHAIRMAN: Mr. Perrone.

1           MR. PERRONE: Thank you, Mr. Chairman.  
2           Just one or two final things on the  
3           reclassification topic.

4           Going back to that response number 18,  
5           the Department of Agriculture notes that there's  
6           possible reinterpretation as important farmland  
7           soils.

8           With stone removal is it also possible  
9           to be reclassified as a prime farmland soil?

10          THE WITNESS (Kolesinskas): Yes, that is  
11          possible, that some of the areas of Paxton soils,  
12          it certainly could be classified so that they  
13          would be considered prime farmland, not just be  
14          statewide important or locally important.

15          MR. PERRONE: As far as reclassification  
16          on important or prime, would that depend on the  
17          concentration of stones remaining?

18          THE WITNESS (Kolesinskas): That is  
19          correct. So one would be, you know, was -- wasn't  
20          initially mapped correctly, and then have  
21          sufficient surface stones been removed? So it's  
22          no longer a barrier to agricultural production,  
23          specifically plowing.

24          And if that is the case then they  
25          would -- would be reinterpreted as prime farmland

1           soils. Or if they were at, you know, areas that  
2           may be more sloping, 8 to 15 percent slopes would  
3           be statewide important rather than prime farmland.

4                     MR. PERRONE: Thank you very much. I'm  
5           all set.

6                     THE CHAIRMAN: I have a few questions.  
7           If for whatever reason this project would not go  
8           forward, does not go forward, the solar project,  
9           what guarantees can I guess your department  
10          provides that these lands would not be  
11          subsequently developed for some other  
12          nonagricultural use?

13                    THE WITNESS (Kolesinskas): Well, I mean  
14          the -- the areas of fields, there it's certainly  
15          possible that the landowner could apply for one of  
16          the conservation easement programs and a  
17          partnership that could possibly include the State  
18          of Connecticut -- may be interested in purchasing  
19          or getting a donated easement on a portion of the  
20          property.

21                    THE CHAIRMAN: Okay. You need a willing  
22          landowner?

23                    THE WITNESS (Kolesinskas): Correct.  
24          The easement programs are voluntary.

25                    THE CHAIRMAN: Are you aware of the

1 current zoning on the project area? It's in the  
2 record.

3 THE WITNESS (Kolesinskas): Yes, it's in  
4 the record. I remember reading it, but I don't  
5 recall specifically what it -- what it's zoned.

6 And though, I do know that like many  
7 communities, New Milford does have a variety of  
8 tools such as you would be able to use, you know,  
9 a conservation subdivision or cluster development  
10 concept. So that there are areas of forestland,  
11 wetlands, farmland that could be protected if it  
12 were to be developed into some other use.

13 THE CHAIRMAN: It's a somewhat  
14 interesting history of the current zoning and the  
15 current proposed development. I won't go into  
16 that detail. I'm not an expert and that would  
17 probably be a question for the Town when we get  
18 there.

19 But as I have read it, it's for a rather  
20 intense residential development. I believe the  
21 proposal was -- and at least the zoning would  
22 allow, but the site plan was ultimately denied,  
23 the final site plan. So I think it was something  
24 like 500 housing units on this, this property.

25 So I'm having a little trouble balancing

1 your theoretical -- somewhat theoretical answer  
2 that, yes, the landowner could apply to X, Y, and  
3 Z. They're from the Town or from the Department  
4 of Agriculture. And the fact that it's presently  
5 zoned -- and I believe if I'm not mistaken the  
6 property is owned by a bank. So I mean, I think  
7 one of the things we really have to look at is,  
8 what is realistic?

9 And I think we really need -- if this is  
10 really contrary to protecting green fields do we  
11 have any real opportunity to protect them given  
12 that, one, we need a willing property owner and,  
13 two, we have existing zoning regulations?

14 THE WITNESS (Kolesinskas): Well, you  
15 know, part of it is in a capitalist society what  
16 will the market bear?

17 There's certainly a number of farmers  
18 that I know that have purchased lands that  
19 developers and banks either were no longer  
20 interested in, or that there wasn't the market  
21 or -- and there have also been many conservation  
22 properties that have also been protected that have  
23 been purchased from developers and from banks  
24 because the market wasn't there for the product.

25 And of course as we know, just because

1 something is zoned a certain way it doesn't  
2 necessarily mean that's ultimately, you know, the  
3 way that it's going to end up being developed.

4 But I understand your point. I think we  
5 can do better than we're doing in the State as it  
6 relates to how we approach developing a large  
7 parcel, whether it's residential, solar.

8 THE CHAIRMAN: Does the Department of  
9 Agriculture, can they actually own property and  
10 then lease it to farmers?

11 THE WITNESS (Kolesinskas): Yes, they  
12 can and they do.

13 THE CHAIRMAN: They do. I hope you're  
14 doing better in the budget than most agencies.

15 So again, following up on Mr. Lynch's  
16 question, when this property was rezoned, which I  
17 think was around 2005 -- that was the first.  
18 Again, this was material that's been provided and  
19 then subsequently, obviously to a fairly, you  
20 know, intensive residential use.

21 Did the Department of Agriculture  
22 testify at that hearing? Appear at that hearing,  
23 send anything written? Because that was a major  
24 change on land that's -- so I'm testifying again.

25 Well, answer the question and then maybe

1 I'll have a follow-up.

2 THE WITNESS (Kolesinskas): I -- I do  
3 not know that they did or they didn't. And though  
4 it's, you know, it would be unlikely for the  
5 Department of Agriculture to go and testify at  
6 individual planning and zoning hearings on a  
7 parcel development unless it were directly  
8 impacting a piece of protected farmland that  
9 was -- that was adjacent, or if someone were  
10 mistakingly trying to develop a piece that had  
11 been protected with an easement by the Department  
12 of Agriculture.

13 THE CHAIRMAN: It get back -- I won't  
14 belabor it, but it gets back to the question of,  
15 why are you here then? Why are you testifying  
16 now and forgetting -- I mean, the issue you  
17 raised, unless you want to challenge, subsequently  
18 is a moot issue because the Council has already  
19 ruled on the procedural issue.

20 So to me, why is this any different in  
21 importance than if the Town or some property owner  
22 on a large piece of property -- this is a large  
23 piece of property -- wanted to rezone it to a use  
24 that, as far as my understanding, could not revert  
25 back to agriculture if it was developed?

1           So I'm just trying to figure out why now  
2           and not then, and also if you could give me  
3           specific examples of where you have a major piece  
4           of the property. Testify.

5           I'm not saying it's wrong for you to do  
6           it. I'm just trying to understand, again given  
7           that the procedural issues are no longer, you  
8           know, before us, at least in our view. Why you're  
9           making this exception when, as far as I know, we  
10          don't even know if these soils are those category  
11          because no one has checked the stones or whatever  
12          it is.

13          So I'd really like to get a better  
14          understanding because this is -- I've been on the  
15          Council for a number of years. We've never had  
16          solar, but I've never had another state agency --  
17          and it's fine for you to appear, but I've never  
18          seen this. I'm trying to really get a sense of  
19          why.

20          THE WITNESS (Anderson): I'll sound like  
21          a broken record, but we got into this simply  
22          because it's a project that's greater than  
23          two megawatts, and it's on -- we believe that it  
24          materially affects our prime farmland potentially.  
25          I mean, we have it from's Kip's authority that

1           this is prime farmland and we suspect that's where  
2           it would fall if it was surveyed properly.

3                       And so that's why we're here.  It's  
4           really quite simply because of 17-218.  We think  
5           the statute applies.  And I know that since then  
6           you've said that it doesn't, but that was our  
7           position going into this, and that's our position  
8           now.

9                       So that's -- that's it.  Sorry if I  
10          sound like a broken record.

11                      THE CHAIRMAN:  Okay.  No, that's fine.  
12          You're saying -- and I won't belabor that part of  
13          it.  You're saying then without question that this  
14          is prime agricultural land.  That's what you just  
15          said?

16                      THE WITNESS (Anderson):  We believe if  
17          it was surveyed, and I'll let Kip speak to it, but  
18          I think he's going to say that we believe that if  
19          it was fully surveyed in the way that Kip is  
20          explaining that it should be, that it would  
21          probably come up as prime farmland.  I -- I can't  
22          say because --

23                      THE CHAIRMAN:  Okay.  That's fine.  I  
24          don't want to go on because I have -- and just  
25          again this is from a layman's standpoint.  If it's

1 forested -- because I saw this and I thought it  
2 was interesting, but analysis of how you can -- or  
3 maybe it can reconvert forest back into  
4 agricultural land.

5 Is that something that's an objective of  
6 the Department of Agriculture, to take a forested  
7 land and convert it into agricultural land? I  
8 mean, you gave us a process --

9 THE WITNESS: Yes, it is. Right. In  
10 the late 1800s, something like 75 to 80 percent of  
11 Connecticut was cleared and used for agricultural  
12 purposes.

13 And so it's through a variety of reasons  
14 that a lot of it went back to forested or went  
15 into development. And though, there's a  
16 significant portion of it that were excellent  
17 soils that have reverted back, and because we have  
18 a deficit of agricultural land in the state, or in  
19 the heart of the marketplace within just two hours  
20 of Connecticut, there's, you know, millions and  
21 millions of people and customers that there's a  
22 huge need for agricultural land.

23 So there's -- the Department of  
24 Agriculture has a farmland restoration program  
25 which offers a cost share for people to bring land

1 back into production. And so there have been  
2 several thousand acres that have been restored  
3 back into agricultural land.

4 So it is possible done very carefully to  
5 clear invasive and brushy areas and woodland  
6 and -- and use it for cropland as well as other  
7 forms of agriculture that are using the forest as  
8 part of agricultural activities with specialty  
9 crops and limited grazing and some of those other  
10 kinds of agricultural activities.

11 So we have -- we have a list of the  
12 Connecticut Farmlink of over 400 people looking to  
13 farm in Connecticut, but they can't get access to  
14 land.

15 THE CHAIRMAN: Do you know -- this gets  
16 to municipal zoning. Do you know of any towns  
17 that have zoning categories specifically to  
18 preserve/maintain agricultural land?

19 THE WITNESS: Well, of course there's a  
20 number of towns that have been very active in  
21 understanding agriculture is an important part of  
22 their community. In partnering with the State,  
23 particularly with the community farms program  
24 which are for protecting smaller parcels with  
25 willing landowners, as well as with land trusts,

1 as well as with the federal government.

2 So there are many towns that have  
3 participated in protecting farmland. There are --  
4 I believe that Suffield and -- there are a couple  
5 of other towns that specifically have a special  
6 zoning category for protected farmland, farmland  
7 that's been protected with an easement so that it  
8 gives it additional protection from nuisance  
9 complaints and from competing land uses that are  
10 nearby.

11 So -- but we don't have, you know,  
12 agricultural districts or something like that that  
13 they have in New York or Pennsylvania, or parts of  
14 the Midwest. But -- and towns have additional --  
15 there are a number of towns that have additional  
16 planning and zoning tools, whether it's tax  
17 abatements or tax, taxing, tax credits or special  
18 right-to-farm laws that they've approved as well  
19 to protect and enhance agriculture.

20 THE CHAIRMAN: Okay. I think that's all  
21 I have. There's other questions, but that will  
22 have to wait until you testify at the other  
23 hearing where you presented prefiled comments,  
24 which that's a separate petition. So we'll have  
25 to wait for that one where you did some balancing

1 of agriculture versus renewable, the importance of  
2 renewable, which I thought was interesting.

3 But we'll have to save that for another  
4 day I guess.

5 Mr. Lynch?

6 MR. LYNCH: Just a point of  
7 clarification. When you talk about protected  
8 lands, farmlands, whatever that the towns do,  
9 would that fall under the umbrella of open space?

10 THE WITNESS (Kolesinskas): I don't like  
11 to use the term "open space." I prefer to talk  
12 about what it's being used for. So I would say  
13 that land that's protected with an agricultural  
14 conservation easement which we would call a  
15 working lands easement is specifically so that it  
16 can be used for agriculture and for agricultural  
17 economic activity.

18 But some towns, you know, may include it  
19 in their open-space plans, or plans of  
20 conservation and development as open space.

21 MR. LYNCH: Thank you.

22 THE CHAIRMAN: Mr. Levesque, do you have  
23 any?

24 MR. LEVESQUE: Sure.

25 When the Chairman asked about

1 alternative supportive sites for solar power,  
2 would you prefer that the solar panels be  
3 along the -- off some of the extensive  
4 rights-of-way owned by DOT instead of agricultural  
5 land?

6 THE WITNESS (Kolesinskas): I think that  
7 that's certainly something to consider. I realize  
8 that it's, you know, they're relatively small, but  
9 I think that there are all kinds of -- and that  
10 those are disturbed soils and with providing  
11 limited ecological function.

12 So I would certainly prefer to see some  
13 of those areas, you know, little cloverleaves,  
14 right-of-ways I think have the potential for solar  
15 arrays.

16 MR. LEVESQUE: And you see the many,  
17 many miles of sound barriers they have, which can  
18 be where you can mount a lot of solar panels and  
19 maybe even private industry would be interested in  
20 using that space that's already disturbed, or the  
21 wide medians where it's safe?

22 THE WITNESS (Kolesinskas): And we have  
23 a lot of our industrial parks and industrial areas  
24 that have huge amounts of lawn that have -- that  
25 need to be maintained and aren't really providing

1 ecological function either -- would be potential  
2 areas, and there's a lot of -- lot of acres in  
3 between those industrial buildings.

4 MR. LEVESQUE: Thank you, Mr. Chairman.

5 THE CHAIRMAN: Mr. Silvestri?

6 MR. SILVESTRI: This might be beyond  
7 your database, but I'm going to ask it anyhow.

8 Farms have barns. Farms have silos. Do  
9 you have any sense of how many farms in  
10 Connecticut are actually using solar power or  
11 other types of renewables?

12 THE WITNESS (Anderson): Yeah, it is  
13 beyond our database. I think the person who has  
14 kind of the best fix on that is Connecticut Farm  
15 Energy, Amanda Fargo-Johnson at Connecticut Farm  
16 Energy. She's got a real good fix on the projects  
17 that have come through on individual farms.

18 And you know, so that's where I'll have  
19 to leave it. We can probably get that information  
20 from her for you if you wanted, what she has, but  
21 it's up to you.

22 THE CHAIRMAN: We'll continue with the  
23 cross-examination by the petitioner.

24 MR. MICHAUD: Can I just have a couple?

25 THE CHAIRMAN: You can ask whatever you

1 want.

2 MR. MICHAUD: Okay. Thank you.

3 You didn't file any prefiled testimony  
4 in this proceeding. Did you?

5 THE WITNESS (Anderson): No.

6 THE WITNESS (Kolesinskas): No, we did  
7 not.

8 MR. MICHAUD: Can you explain to me why  
9 you did not?

10 THE WITNESS (Kolesinskas): I think that  
11 it was, you know, as far as trying to maximize  
12 the -- the resources and time that there was  
13 another project that had a much more significant  
14 impact on prime farmland and agricultural, on the  
15 agricultural community.

16 So that because of the interest, as  
17 Steve explained, in feeling that we thought that  
18 agricultural and prime farmland soil needed --  
19 needed a voice and not a waiver that -- to be  
20 listed as a party. But again, because of this,  
21 the time commitment of putting our resources  
22 towards a different project.

23 MR. MICHAUD: And is it true that you  
24 didn't submit to Candlewood Solar any  
25 interrogatories in this proceeding also?

1           THE WITNESS (Kolesinskas): Only as  
2 relates to from the -- from the Siting Council.  
3 But as far as the department submitting any to  
4 anyone else? No.

5           MR. MICHAUD: Okay. So how did you  
6 formulate your case today?

7           THE WITNESS (Kolesinskas): We responded  
8 to the interrogatories from the Siting Council.

9           MR. MICHAUD: And is it true if 17-218  
10 was never enacted by the Legislature you wouldn't  
11 be here today? Is that correct?

12          MR. BOWSA: May I object to that?  
13 Isn't that not kind of speculative?

14          MR. MICHAUD: I believe it's a similar  
15 question that was asked by a member of the  
16 Council.

17          THE WITNESS (Anderson): I can't -- I  
18 can't say for certain, but I would have to say  
19 probably not. We -- we haven't been involved in  
20 other -- other hearing -- I don't know of any that  
21 we were involved in before then, but I don't know  
22 for sure.

23          MR. MICHAUD: Okay. Thank you.  
24 That concludes my questions.

25          THE CHAIRMAN: Thank you. The Town of

1 New Milford.

2 MS. RIGDON: Good afternoon. Rebecca  
3 Rigdon. I'm the Town Attorney for the Town of New  
4 Milford. I just have a couple quick questions.

5 We've heard some testimony today that  
6 soil may be brought into the site, that they would  
7 use what they can, but they may also bring soil  
8 in.

9 What effect, if any, would that have on  
10 when this project is decommissioned and turning it  
11 back into a farmland situation?

12 THE WITNESS (Kolesinskas): Well, again  
13 part of it would be depending on, you know, what  
14 the soil that was brought in is being used for and  
15 what the quality of that soil is. You know,  
16 certainly is it free of contaminants? What's the  
17 texture and the structure? How it's being  
18 applied.

19 So certainly I would encourage in any  
20 site is to try to do as little soil disturbance as  
21 possible to minimize the grading and the trenching  
22 as much as possible and not have it to rely on  
23 bringing in soils from -- from offsite.

24 So again, it would depend on what the  
25 soils are, how they're treated, how they're

1 applied, and how -- how useful they might be as  
2 part of an agricultural soil in the future.

3 MS. RIGDON: So the soil that could  
4 potentially be brought in could bar a future  
5 agricultural use. Is that your testimony?

6 THE WITNESS (Kolesinskas): If it's  
7 not -- if it's not a quality soil and, say, if it  
8 were, you know, a very clay soil that was applied  
9 when it was wet, and that may actually not  
10 incorporate well into the existing soils on site,  
11 and you know, be a barrier to roots or plant  
12 growth in the future.

13 MS. RIGDON: Okay. And we've also heard  
14 some testimony that this is a bank owned property.  
15 Has your department in the past worked with banks  
16 to conserve these types of properties? Are banks  
17 willing to put conservation easements on their  
18 properties?

19 THE WITNESS (Kolesinskas): Yeah, I  
20 would say banks -- as far as I know I'm not  
21 familiar with any projects where through the  
22 Department of Agriculture that a bank has applied  
23 directly for a project and there are -- certainly  
24 banks have been a component because there are  
25 certainly a number of properties that have been

1           protected with agricultural easements where the --  
2           there's a mortgage. And so the banks have to be a  
3           willing partner in that process.

4                       MS. RIGDON: Okay. And one last  
5           question. In all the information -- and I'm new.  
6           I've only been town attorney for a month. So I've  
7           been trying to get caught up with all of you.

8                       There's been a lot of public need  
9           language used. Can you tell me in terms of public  
10          need, is there a greater public need for  
11          agricultural land, or do you believe in your  
12          opinion there's a greater need for solar projects?

13                      THE WITNESS (Kolesinskas): It's not an  
14          either/or. It can be an either/or. It's not an  
15          answerable question. There's not enough relevant  
16          facts.

17                      The reality is we're all working towards  
18          sustainability to be able to stay on this planet.  
19          So as a component of that we know that fossil  
20          fuels are not a renewable resource, that renewable  
21          energy source is -- is solar. And though, you  
22          know, we all eat every day. So we know that we  
23          need to have sustainable agriculture as well.

24                      So to decide that agriculture and prime  
25          farmland soils -- prime farmland soils are not --

1           there's less than 3 percent of the planet that's  
2           capable of growing our food. So why would we  
3           squander those resources on something when there  
4           are other places that we can do different kinds of  
5           development scenarios?

6                         So we need to be thinking very carefully  
7           about what we do where, just the same as, you  
8           know, wetlands that we know they have a very  
9           important function and agricultural landscapes do  
10          as well. So it's more of deciding what's an  
11          appropriate use where and of what quantity. So we  
12          need both.

13                        MS. RIGDON: No further questions.

14                        THE CHAIRMAN: I will follow up that  
15          question at the other hearing -- well, let me  
16          just, since it was posed. Everybody is laughing,  
17          but I can't resist. It is ultimately, among other  
18          things, one of the key questions.

19                        So if -- and you know, we have a number  
20          of ifs. You know, if the zoning is changed or if  
21          they get a conservation, easement, but if for  
22          example this project were to go forward and if the  
23          applicant were to use all the best practices when  
24          it comes to preserving the soil and minimizing  
25          the -- having large tractors, which also happened

1 to also traverse farmland, but you know, all those  
2 things either didn't bring in any new soil or made  
3 sure that it met all the highest standards, could  
4 that property after 20 years, if the  
5 decommissioning was all done correctly, revert to  
6 agricultural lands?

7 I think you say that in your other --

8 THE WITNESS (Kolesinskas): Yeah, I  
9 would say, yes, it certainly could. I guess that  
10 part -- part of the issue, again as it relates to  
11 access to the farmland, the fact that we -- we  
12 have a deficit.

13 So that you know, every time we lose  
14 farmland, because basically, yes, maybe, it may be  
15 farmable in 25 years, but that's 25 years that  
16 those acreages have now been available to somebody  
17 to farm. So there's -- there's that issue.

18 And then again, depending on if --  
19 depending on how that soil has been treated it may  
20 be suitable for some kinds of agriculture. Maybe  
21 not for others, but yes, in theory. Yes, it could  
22 be that in 25 years that it could be, when it's  
23 available for agriculture, that it could be used  
24 for agricultural purposes, and though it's been --  
25 hasn't been available for 25 years for somebody to

1 use.

2 THE CHAIRMAN: Okay. So then the  
3 flipside of that, if -- and somebody had that  
4 great quote in one of the hearings from Hillel the  
5 Elder. If not now, when? What about in the case  
6 of our climate?

7 If we don't collectively -- and this is  
8 a tiny, tiny piece of that collective -- do  
9 something now, in 20 years can we reverse the  
10 greenhouse gas? Are we going to be able to  
11 reverse that, whatever it is, the fraction of  
12 a percent increase in temperature?

13 THE WITNESS (Kolesinskas): Well,  
14 climate change is already here. So --

15 THE CHAIRMAN: That's not what I asked.

16 THE WITNESS (Kolesinskas): And we need  
17 to do both. So agriculture is part of the  
18 mitigation and adaptation to climate change. It's  
19 not separate from.

20 So just like we need to have renewable  
21 energies, agriculture can store carbon, that  
22 having food grown close to where people live  
23 reduces the number of food miles. It's shown that  
24 there's less -- less food waste with agriculture  
25 closer to where people live. And again as far

1 as -- because most of our farms are only -- are  
2 only a portion of active productive land, they  
3 also have -- they have wetlands. They have  
4 habitat. They're storing groundwater.

5 So they're providing a lot of other  
6 functions that are really important as it relates  
7 to climate change mitigation and adaptation as  
8 well. So we need to do both. It's just where and  
9 of what size is appropriate. We're the fourth  
10 most densely populated state in the country. So  
11 size matters of, you know, of a land-use change.

12 THE CHAIRMAN: One last thing. You are  
13 aware that the applicant is proposing to  
14 preserve -- and I assume more than 20 years -- a  
15 hundred acres as part of mitigation? You're aware  
16 of that?

17 THE WITNESS (Kolesinskas): I did see in  
18 the -- on the Siting Council site a map, but I  
19 wasn't -- don't know, you know, if there was  
20 actually any sort of legal document that's been  
21 put forward as far as land protection and -- and  
22 what the strategy is and what the -- as it relates  
23 to any sort of management or decommissioning, how  
24 that relates to a potential easement or  
25 preservation project.

1 THE CHAIRMAN: Mr. Lynch?

2 MR. LYNCH: I'm going to ask you a  
3 selfish question, and I'll probably get a verbal  
4 from the Chairman later.

5 But myself being a cigar smoker, is the  
6 tobacco industry in Connecticut both shade and  
7 broadleaf still on a decline?

8 THE WITNESS (Kolesinskas): I would say  
9 shade is definitely on a decline. I think that  
10 broadleaf, there are some people that are still  
11 doing very well with -- with broadleaf. So there  
12 is still a tobacco industry, but it's changing.

13 MR. LYNCH: I told you it was a selfish  
14 question. Thank you.

15 THE CHAIRMAN: Actually it's -- well, a  
16 related question.

17 THE WITNESS (Kolesinskas): So just  
18 to -- apparently that broadleaf is on the upswing.  
19 Shade is on the downswing. Broadleaf is on the  
20 upswing.

21 THE CHAIRMAN: Mr. Hannon?

22 MR. HANNON: Just to follow up on what  
23 you're saying. I'm pretty sure I know what the  
24 answer is, but I'm going to ask it anyway. Given  
25 sort of two choices that you have agricultural

1 property here, whether it be here or anyplace  
2 else, if there's a chance of putting on something  
3 like a solar project where in 20, 25 or 30 years  
4 you may be able to reclaim the property for  
5 agricultural use, versus what the property is  
6 currently zoned for in the town where it's a  
7 high-density use, which would you guys prefer to  
8 see?

9 THE WITNESS (Kolesinskas): Well, I  
10 think there's other choices besides that as well.  
11 I think that's --

12 THE CHAIRMAN: Answer the question.

13 THE WITNESS (Kolesinskas): I think  
14 there's more than, you know, there's a lot of gray  
15 area. There's not just a black-and-white of one  
16 thing or the other. I guess that I would say that  
17 certainly having something, knowing something is  
18 going to be protected with a conservation easement  
19 if, you know, the soils and the hydrology have not  
20 been so disturbed that it's not going to be usable  
21 for agriculture.

22 That it's not going to, you know, be  
23 able to grow back a robust, you know, other kinds  
24 of vegetative community. You know, I would  
25 certainly say a conservation easement would be

1           valuable.

2                   MR. HANNON:   Let me ask it this way.  
3           Are you aware of any residential properties  
4           whether it be low development or high development  
5           that have been converted back to agricultural use?

6                   THE WITNESS (Kolesinskas):  Oh, yeah.  
7           We have urban -- we have agriculture in every  
8           town, in every city in the state.  So there's, you  
9           know, I've been down looking at agricultural land  
10          in -- in Bridgeport that's being used to grow  
11          food.

12                   MR. HANNON:   These are some of the small  
13          parcels?

14                   THE WITNESS (Kolesinskas):  They're  
15          small parcels.  So it's --

16                   MR. HANNON:   Local gardens?

17                   THE WITNESS (Kolesinskas):  That's  
18          right.  So their ability to grow a large amount of  
19          food is, you know, they're not growing huge  
20          amounts of food.  And typically they have to bring  
21          in soils.  They have to be very careful of  
22          contamination.

23                   So it's much easier to grow crops and  
24          have agriculture on soils that have not been  
25          highly disturbed and with a lot of human influence



1 time. The counsel is not present, but we did  
2 write in and inform Ms. Bachman that counsel would  
3 not be present.

4 THE CHAIRMAN: We're not calling back  
5 the witnesses. So this is really your opportunity  
6 here. You should have made sure your counsel --  
7 because this --

8 LISA OSTEN: We are fully aware of that.  
9 We are fully aware of that, but without counsel  
10 here we need to decline.

11 THE CHAIRMAN: Well I mean, you don't  
12 need an attorney. Do any of you -- a spokesperson  
13 for the group? And you don't have to ask  
14 questions, but we don't want to preclude your  
15 opportunity.

16 LISA OSTEN: We would appreciate at this  
17 time that if you had any questions for us that we  
18 could answer you.

19 THE CHAIRMAN: No. You're going to be  
20 cross examined at a different -- at a subsequent  
21 meeting.

22 LISA OSTEN: Yes, we are aware. Counsel  
23 could not be here. We are aware. He did write  
24 in.

25 MR. BOWSZA: Do you folks have any

1 questions for us?

2 THE CHAIRMAN: That's what we're trying  
3 to ask.

4 MR. BOWSA: If not, that's fine. Just  
5 making sure you have an opportunity.

6 LISA OSTEN: Could you give me one  
7 moment.

8 THE CHAIRMAN: Sure.

9 LISA OSTEN: We do not have any  
10 questions at this time, but we thank you very much  
11 for the opportunity, and we understand.

12 THE CHAIRMAN: Okay. We appreciate it.  
13 We're just going to go see -- you guys  
14 are all set?

15 THE WITNESS (Kolesinskas): Okay. Thank  
16 you very much for the opportunity.

17 THE CHAIRMAN: We might even see you in  
18 a couple days.

19 MR. BOWSA: Looking forward to it.

20 THE CHAIRMAN: You have a preview now.  
21 So we're just going to go around to see  
22 if any of the council members have more questions  
23 for the petitioner.

24 MR. MURPHY: I don't have any more.

25 MR. SILVESTRI: No, sir.

1 THE CHAIRMAN: Mr. Harder?

2 MR. HARDER: I just have a few  
3 followups. Actually an initial question. The  
4 system, as proposed before us anyway, is for  
5 20 megawatts. Is that correct?

6 THE WITNESS (Walker): That's correct,  
7 yes.

8 MR. HARDER: And you're contractually  
9 obligated to provide that system?

10 THE WITNESS (Lindsay): That's correct.

11 MR. HARDER: Has it always been, since  
12 you initiated the development of this project has  
13 it always been 20? Or if not, where did you start  
14 and how did you get to 20?

15 THE WITNESS (Walker): I believe the RFP  
16 required a minimum of 20 megawatts. We could not  
17 go less than that, but we could have gone higher  
18 than that. We decided to stay a 20 megawatts.

19 MR. HARDER: So you're in a position now  
20 before us proposing a 20-megawatt system. You  
21 can't go below that?

22 THE WITNESS (Walker): We could higher  
23 than that if we had already bid it, but we did not  
24 bid that. We bid a 20-megawatt project, but the  
25 RFP -- there are two RFPs. One was a 2 to

1           20-megawatt RFP, I believe, and one was  
2           20-megawatt and above. We were in the 20-megawatt  
3           or above response.

4                    So the utilities required us to deliver  
5           at least 20 megawatts. That was their  
6           requirement. We could have made the project size  
7           larger, but we chose not to in the bidding.

8                    MR. HARDER: But would any changes that  
9           might be made or be necessary as a result of our  
10          input or our requirements, questions for -- from  
11          anyone else? Any other factors, would that  
12          effectively kill the project? Or would that just  
13          subject you to penalties?

14                   THE WITNESS (Walker): I have to look at  
15          the terms of the agreement. There are penalties.  
16          Whether or not -- at what point in time we have to  
17          pay penalties and the project is rejected I would  
18          have to look at that, but the utilities all  
19          received approval from their various regulators  
20          including DEEP in Connecticut, the DPU in  
21          Massachusetts.

22                    For this RFP it would be two  
23          20 megawatts or higher. And the power purchase  
24          agreement that we signed was not our power  
25          purchase agreement, but it had been already

1 pre-written and approved by the regulators in each  
2 of the states, and the utilities in each of the  
3 states.

4 So we were -- we had to accept what we  
5 were given. And during the negotiation phase we  
6 had very little, almost no opportunity to change  
7 that agreement.

8 MR. HARDER: Okay. Thank you.

9 A couple more specific questions  
10 regarding the site. The part of the parcel or  
11 part of the property, I guess, that abuts  
12 Candlewood Mountain Road, is that owned by parties  
13 involved in this application?

14 The point I'm getting to is the access  
15 road. It's basically right adjacent to the  
16 northern property line of that part of the parcel  
17 that's adjacent to Candlewood Mountain Road. And  
18 I'm wondering for the person who lives in that  
19 house I'm sure it's not, you know, the best  
20 situation in the world.

21 I'm wondering if there are any options  
22 available, any possibilities of moving that access  
23 road. I know that there's some wet areas as you  
24 start to go up in elevation. I'm wondering if  
25 there are any options, if you have looked at that,

1 and if you have rejected them for any reason  
2 including the presence of those wet areas?

3 THE WITNESS (Lindsay): We have not. We  
4 have not considered moving that access road, I  
5 think, due to the fact that we wanted to minimize  
6 additional disturbance. It's already an access  
7 way and, you know, we wanted to try to minimize  
8 going to -- in the other areas.

9 It may be possible to move it. I think  
10 that in terms of where it goes up the hill from  
11 the flatter part that would be also, in our view,  
12 problematic to a move because that would involve  
13 more disturbance. It's already -- it's already an  
14 access way. We wouldn't want to have to move and  
15 actually disturb more area since we can already  
16 actually use that.

17 As far as where it goes across the open  
18 field, I -- I would say it may be possible to  
19 adjust that some, but that's where the opening in  
20 the stone wall is, too. So I'm not sure that  
21 there would be, you know, if you would have to  
22 create another opening in the stone wall if you  
23 were going to move it.

24 THE WITNESS (Bukowski): The only other  
25 thing I'll add, and you mentioned this, but there

1 is a wetland that runs just to the east side of  
2 where the road goes up. So moving the road would  
3 involve wetland impacts.

4 MR. HARDER: Right, and I assume that  
5 was part of your consideration, but my  
6 understanding is it's not a continuous wetland  
7 across the entire, you know, eastern edge of that  
8 flat area. There are breaks and I just don't know  
9 if those breaks would be adequate to allow, you  
10 know, an access road through.

11 I didn't know if you considered that at  
12 all, and if you had, what your thought process  
13 was.

14 THE WITNESS (Butler): I think  
15 another -- another negative in that regards, if  
16 you were to cut across the fields straight up you  
17 would have to accommodate that slope that's now  
18 taken out by a -- by a graduated ascent and now  
19 you'd be facing -- you'd be having to make a haul  
20 road that would have to make the same elevation  
21 change over a much shorter interval straight on.

22 MR. HARDER: Right, assuming you went  
23 straight up.

24 THE WITNESS (Butler): Otherwise you  
25 would have to come tangentially or at an oblique

1 angle to the wetland and fill more. Right now  
2 there's a high direct crossing there that's the  
3 old Hollow Road, the pre-existing Hollow Road.  
4 And so the attempts to take advantage of that,  
5 because somebody also obviously considered the  
6 change in grades there and that's probably the  
7 best way to access it without having a very steep  
8 ascent.

9 MR. HARDER: Okay. The next couple of  
10 questions have to do with the fact that you've  
11 made some changes. You've, I guess at least on  
12 the eastern side of the project, you've pulled  
13 back from that wetland area, or because of the  
14 changes in the panels and the separation between  
15 the panels you've been able to pull back on the  
16 eastern side.

17 And my question is, has that allowed you  
18 to make any other adjustments on the western side,  
19 because some of the panel locations proposed on  
20 the western side were also fairly close or closer  
21 to wetland areas?

22 Or is it the opposite? By pulling in  
23 from the east are you pushing out any areas to the  
24 west to allow you to still provide the same  
25 system?

1           THE WITNESS (Lindsay): We are not  
2 pushing anywhere to the west. In fact, I probably  
3 oversimplified a little bit that we also are  
4 pulling in the array on the southeast and the  
5 southwest to some degree.

6           There were some steeper areas on the  
7 southwest, and other panel members can correct me  
8 if I get anything wrong, but some steep areas in  
9 the southwest where we also pulled back the array  
10 due to minimizing impacts on potential habitat  
11 areas there.

12           And also in general on the southeast I  
13 think we also pulled back basically to limit  
14 the -- to limit the disturbance to essentially to  
15 the -- what is currently the open field, or as a  
16 point further, previously. So we pulled it back  
17 there, but we did not push anywhere. We only  
18 contracted.

19           MR. HARDER: Okay. Was one of those  
20 areas where you contracted -- I guess I wouldn't  
21 think of it as the southwest. Kind of in the  
22 middle west near the corner that's fairly close, I  
23 don't know if it's wetland three or one of the  
24 wetlands because it juts out a little bit. And  
25 part of that was fairly close.

1           THE WITNESS (Lindsay): I think we -- it  
2 depends on if you're talking about kind of  
3 north -- further north on the western side, we did  
4 not change that.

5           What I was referring to was the corner  
6 on the southwest side which is actually near  
7 the -- the access road. That's where we pulled  
8 back further. We didn't alter anything on the --  
9 further north along the way.

10          MR. HARDER: One of the issues, I guess,  
11 that concerns me a little bit, I think it's  
12 somewhat existing in that corner area that we just  
13 talked about. Your internal access roads at least  
14 on the drawings are showing basically straight  
15 shots directly down the slopes. It doesn't show  
16 any turnarounds, which is one question I had. Are  
17 you planning any turnarounds circles or anything  
18 like that?

19          The other thing is I know this is an  
20 issue that's a concern in various projects,  
21 concerns of the DEP folks, the stormwater folks  
22 where roadways are constructed straight down  
23 slopes. Obviously, it's a greater concern the  
24 steeper the slope, but in these situations looking  
25 at the drawings it raises that concern.

1           And I'm wondering, you said you have  
2           made or would make changes in response to the  
3           department's guidelines for stormwater control at  
4           solar farms. How do you look at those issues,  
5           especially your internal access roads were they go  
6           straight down the slopes?

7           You've got drainage swales or culverts  
8           on both sides going directly down the slopes and I  
9           think in most cases at least on the west side  
10          ending at the top, and at the beginning of some  
11          even steeper slope areas.

12          THE WITNESS (Lindsay): There is -- as  
13          we've said before, there is a neighboring around  
14          the entire array that allows for -- that actually  
15          basically 60 feet to the -- from the edge of the  
16          area disturbance to the fence line, and then  
17          there's another 15 feet inside the fence line.

18          So the array stops essentially 75 feet  
19          from the actual end of the disturbance. So that  
20          allows for room for the implementation of  
21          stormwater control measures. I can let Rob speak  
22          to it.

23          You know, that's something we have to --  
24          we have to incorporate properly. I mean, it's a  
25          good question, though, we need to address it in

1           accordance with the requirements that the  
2           department has.

3                   MR. HARDER: I guess, if I could just  
4           interject before you answer? I guess, part of the  
5           thinking is -- and it gets to Mr. Silvestri's  
6           question earlier about deluges. You know, we've  
7           all seen sites where maybe the designed stormwater  
8           controls that meet the letter of whatever the  
9           regulatory agency is, but you have a good storm  
10          and those pretty much go out the window, because  
11          you know, the result is a mess.

12                   I think that's one reason why the  
13          department developed its more recent guidelines.  
14          But you know, especially situations like this  
15          where you've got a roadway, an access road unpaved  
16          with, you know, drainage on both sides going down  
17          a somewhat steep slope.

18                   THE WITNESS (Lindsay): I think it's --  
19          well --

20                   THE WITNESS (Butler): Yeah. No,  
21          we're -- we still haven't revised the stormwater  
22          design based on this new array layout. So we'll  
23          consider those when we're -- as we're finalizing  
24          the site design?

25                   THE WITNESS (Walker): From my

1 perspective as owner of the site I'm counting on  
2 Amec to make sure that that doesn't happen. I'll  
3 be, you know, we do not want to happen. We don't  
4 want to have a lot of erosion that's going to harm  
5 our investment in our project.

6 So I absolutely agree with you. We have  
7 already asked them, and they've gone in to meet  
8 with DEEP. There will be additional meetings with  
9 DEEP.

10 I think this is a -- you're raising a  
11 very important issue and we have to make sure it  
12 gets addressed so that everybody is happy with the  
13 answer. We do not want to have erosion. It's not  
14 good for our project, period.

15 MR. HARDER: One last question related  
16 to the erosion and sediment issue. There's  
17 references in the petition to sediment traps. And  
18 maybe I didn't see it on some of the drawings, but  
19 I don't see any reference to actual sediment  
20 traps.

21 I don't think -- in the text it talks  
22 about traps ultimately being eliminated or  
23 referring to, or being changed to other control  
24 methods. There's a drawing, I guess, of a typical  
25 sentiment trap.

1           But could you explain or maybe point me  
2           at drawings where they are shown? You know, could  
3           you explain if you're still proposing to use  
4           traps? I mean, which to me from the drawing in  
5           there it looks like a typical sediment basin.

6           But could you explain how you intend if  
7           you do intend to use them?

8           THE WITNESS (Bukowski): So the sediment  
9           traps would be used to get the runoff during the  
10          construction phase from no larger than a five-acre  
11          parcel, which is part of the requirements that  
12          DEEP has. The idea in trying to limit impact is  
13          once those sediment traps are built then they  
14          would be converted into sand filters for post  
15          construction and water quality treatment as well.

16          As I mentioned before, we did meet with  
17          DEEP, as Jim mentioned. And we're preparing and  
18          we're in the process of preparing another  
19          subsequent set of drawings and submittal to them  
20          that has all the required detail.

21          MR. HARDER: One final question and not  
22          a stormwater question, but from the discussion  
23          earlier about the fencing and your decision I  
24          think you indicated you decided to extend the  
25          fencing down to the ground surface.

1           It sounded like you evaluated both ways  
2 of doing it. I guess you felt it was better to  
3 exclude certain species. Other applicants have  
4 come before us, and either on their own or after  
5 discussion with us have agreed that it's either  
6 better or at least not a problem to do it the  
7 other way, to have a gap to allow passage of  
8 species.

9           Could you explain your thought process  
10 there? Also why you think it's better, and others  
11 you may think are, you know, worse? You still  
12 have a viable project.

13           THE WITNESS (Butler): In this, the  
14 raised fence configuration would work if you had a  
15 very rigorous -- a mowing schedule that was  
16 infrequent and particularly cautionary.

17           But even if this fence were open it's a  
18 fairly sizable array. As you're aware, if the  
19 fence were open and animals could get in it's not  
20 necessary that they would simply use it to  
21 traverse the landscape. They don't go left to  
22 right, east to west, north or south. So they may  
23 spend more time in there, and then I think that  
24 puts them in a hazard.

25           It can be done in both manners. You can

1 have a raised fence that allows free access. And  
2 for a smaller configuration that might have a high  
3 desirability, but I think in this size, class, and  
4 given the fact that we don't know that there's a  
5 particular standing population of box turtles  
6 there, the more cautionary approach is what we've  
7 adopted here.

8 Just exclude the adult animals by  
9 allowing all the other related reptiles and small  
10 mammals and birds and other wildlife, except for  
11 medium and large mammals -- will be able to  
12 traverse the site and live in them. But keeping  
13 the box turtles, as I said earlier in my testimony  
14 or oral testimony today, the adult life stage of  
15 box turtles is particularly valuable for  
16 population stability and persistence, and that's  
17 what we're targeting.

18 THE WITNESS (Walker): Can I just add  
19 something? So again, from an owner's perspective  
20 I'm not an expert on wildlife. So we're relying  
21 on experts who advise us.

22 If the Siting Council's experts, or  
23 DEEP's experts and our expert all come to an  
24 agreement on, you know, the best way to do it, we  
25 don't care whether there's a space or there's not

1 a space. We want to do what the experts believe  
2 is the best approach for, you know, managing the  
3 site.

4 So if the experts all get together and  
5 say, you know, raise it up so many inches, we're  
6 fine with that. We're just looking upon the  
7 experts to advise us on what is the best approach.

8 MR. HARDER: Okay. Thank you.

9 No more questions, Mr. Chairman.

10 THE CHAIRMAN: Mr. Hannon?

11 MR. HANNON: Thank you, Mr. Chairman. I  
12 do have some questions.

13 Who is the property owner, current  
14 property owner?

15 THE WITNESS (Lindsay): The current  
16 property owner is the bank, Wells Fargo.

17 MR. HANNON: Okay. And the proposed  
18 property owner, that's going to be New Milford  
19 Clean Power?

20 THE WITNESS (Lindsay): Correct.

21 MR. HANNON: Okay. So for the  
22 hundred-acre easement or conservation area that's  
23 being proposed, that's something that would have  
24 to take place after the purchase from the bank.  
25 Correct?

1 THE WITNESS (Lindsay): (Nodding  
2 affirmatively.)

3 MR. HANNON: If New Milford Clean Power,  
4 LLC, is the owner of all of this land, has any  
5 thought been given that if this project goes  
6 forward that at the end of the project maybe the  
7 property be turned over to the Town or a land  
8 trust?

9 THE WITNESS (Lindsay): I really  
10 couldn't speak for New Milford Clean Power on  
11 that.

12 MR. HANNON: No, but I think somebody  
13 else here is.

14 THE WITNESS (Walker): No, I don't  
15 represent New Milford Clean Power. I don't know  
16 what their plans are.

17 MR. MICHAUD: Can I speak with my client  
18 for two seconds?

19 MR. HANNON: Yes, please.

20 THE WITNESS (Walker): I think the  
21 answer is, well, we haven't talked to them about  
22 it. But there -- there is a representative here.  
23 I don't know that he's thought about it.

24 MR. HANNON: I'm just raising the  
25 question to at least have people talk about it,

1 maybe. Okay. That was it on that part.

2 THE WITNESS (Walker): What we know for  
3 sure is that we have to decommission it, and that  
4 we have to agree to zoning it from high  
5 residential to two-acre zoning. That's what we  
6 know for sure.

7 MR. HANNON: Understood. I'm having a  
8 hard time with my math today, so please bear with  
9 me. Initially we were talking about 75,000 panels  
10 on the site. And now I think the numbers are  
11 you're going down to about 60,000, give or take.

12 You're still able to get the same power  
13 output as was originally proposed, the  
14 20 megawatts. So just, I guess I'm still a little  
15 confused on how you can physically do that because  
16 it takes 75,000 panels to generate 20 megawatts.  
17 How are you doing the same thing off of 60,000?

18 THE WITNESS (Walker): We're -- we're  
19 using newer panels with higher wattage per panel.

20 THE WITNESS (Lindsay): Right. We're  
21 using -- we've got a number of things to try to  
22 get more energy and meet the requirements of our  
23 contract but within a lesser space.

24 And so that involves a higher wattage  
25 panel. It involves moving them a little bit

1 closer together and it involves some economic  
2 sacrifices on the part of the project.

3 MR. HANNON: Okay. So because of the  
4 new panels that you're going with, that allows you  
5 to go from the 15 to 12 degree angle and moving  
6 the panels closer together?

7 THE WITNESS (Lindsay): The new -- the  
8 new panels are -- are not really different really  
9 in size or configuration-wise. It's the changing  
10 of the tilt that can change a little bit.

11 It's a higher wattage, but it's the same  
12 sized panel. So it doesn't change anything.

13 MR. HANNON: So you're getting the power  
14 just by having increased wattage output? Okay.

15 THE WITNESS (Walker): For the same  
16 size. For the same exact square feet of the  
17 panel.

18 MR. HANNON: Understood. Thank you.

19 A question that I have for you based on  
20 some of this new information that came in where  
21 you identify the vernal pools in wetlands one, but  
22 also on one of the maps you're identifying the  
23 sensitive archaeological area.

24 Now by moving the panels further to the  
25 west -- so you're creating more of a buffer



1 case it just means that we're flattening out some  
2 of the slopes that are greater than the  
3 ten degrees that we mentioned earlier. So it's  
4 not a significant, you know, big cut-and-fill job  
5 or anything like that.

6 So the grading, really there are some  
7 localized areas that are steeper than ten degrees  
8 that would require a little bit of grading and  
9 then there's the roadways, but other than that  
10 there's not a significant amount of cut or fill.

11 MR. HANNON: Okay. This goes back to a  
12 question that was kind of raised earlier.  
13 People were talking about these heavy rains. I  
14 mean, I was just in the town on Monday. I think  
15 they had 5 and half inches of rain, or  
16 5.49 inches.

17 So part of my question is, is there any  
18 chance if you have rainstorms with that much rain  
19 and that type of intensity that will flow to the  
20 low end of the panels, if you have a chance of  
21 creating any type of rutting thereby leading to  
22 potential erosion problems?

23 THE WITNESS (Bukowski): We do some  
24 post-construction inspections for some solar  
25 arrays that Ameresco has had in service for a

1           number of years and we haven't noticed a  
2           significant amount of drip edge erosion once the  
3           vegetation is established.

4                       MR. HANNON:   Okay.   And if you did  
5           notice something, what would be done?

6                       THE WITNESS (Bukowski):   Typically  
7           something like a stone would be placed down at the  
8           drip edge as to prevent the vegetation from  
9           eroding away.

10                      MR. HANNON:   Okay.   This is just sort of  
11           a general question.   In terms of how -- in walking  
12           on the site you delineated the areas that should  
13           be checked for wetlands.

14                      And the reason I'm asking this is  
15           because when we were walking on the site -- and I  
16           believe you've got a northern portion.   It's like  
17           a little square, the northern portion.   Just a  
18           little bit to the south of that when you've got  
19           that 90-degree turn, in walking over in that area  
20           and checking out the woodland areas there was a  
21           lot of evidence of exposed tree root systems,  
22           roots high to the ground and things of that  
23           nature.

24                      So when you talk about an 18 to 36-inch  
25           water table I'm just wondering if some of the

1 Woodland areas would maybe be also checked to see  
2 if they had any type of wetland characteristics.  
3 And based on what the trees or other vegetation  
4 might be in that area -- or was it really just  
5 looking at where there might be some standing  
6 water?

7 THE WITNESS (Bukowski): Our soil  
8 scientist checked the entire site. So he  
9 walked the site and then based on his observations  
10 walking it that's where he did his -- his soil  
11 testing to define the wetlands.

12 MR. HANNON: Okay. So I'm not saying it  
13 would definitely come out as a wetland area, but  
14 at least it raises the question as to whether or  
15 not anybody had gone out there and tested it.

16 And one of the things I think that was  
17 asked at the last meeting is, were any numbers  
18 crunched to see if the roadways might have an  
19 adverse impact on the direction of stormwater flow  
20 where the roadways might be intercepting the  
21 stormwater and diverting it away from wetlands?

22 Was anything done on that?

23 THE WITNESS (Bukowski): So we're still  
24 in the process of doing that. I do recall you  
25 mentioning that at the last hearing and that,

1 that's going to be incorporated as part of the  
2 final design.

3 MR. HANNON: Okay. So that's still  
4 something you are working on. Because again, I  
5 think that's an important question especially  
6 given the greater significance of the quality of  
7 the wetlands to the east of in this site.

8 Okay.

9 THE CHAIRMAN: Mr. Lynch?

10 MR. LYNCH: I have a few questions,  
11 Mr. Chairman. I wasn't here this morning, so if  
12 any of these things were discussed just let me  
13 know and I'll read it on my computer.

14 But I want to start out with -- actually  
15 my last question now becomes the first because  
16 then Agriculture mentioned brownfields. And at  
17 the first hearing the public mentioned  
18 brownfields. I know some of the cons with  
19 brownfields, but I can't testify -- and I know  
20 some of the pros with brownfields.

21 Can you give me your assessment why  
22 brownfields are not considered, or why they could  
23 be considered?

24 THE WITNESS (Walker): Well, I'll start  
25 and then I'll let our environmental experts go.

1           So Ameresco is one of the largest solar developers  
2           on landfills, municipal landfills and we have lots  
3           of municipal landfill projects with solar on it.

4                     We've looked at brownfields which are  
5           different than landfills. We have not made any  
6           brownfield projects work mainly because of the  
7           legal liability and the banks not wanting to  
8           finance those projects. So we need to have a  
9           state program, which there is in Massachusetts.

10                    We have to go through a set of hurdles  
11           in order to get -- to not have the -- not own the  
12           legal liability resulting from that brownfield. A  
13           landfill is different. The municipality has the  
14           legal liability. We can build on a municipal  
15           landfill.

16                    The other reason at this site is this  
17           site requires a large number of acreage. We have  
18           not seen landfills or brownfields of this size  
19           that can be developed with this size of a project.

20                    MR. LYNCH: Correct me if I'm wrong, but  
21           with brownfields hasn't that mediation already  
22           been done to avoid any type of legal action?

23                    THE WITNESS (Walker): Banks are  
24           conservative. That's all I can say. You know, we  
25           go to the banks. We ask and they come back and

1           they want -- absolutely come heck or high water  
2           they don't want any possible, you know, legal  
3           ramifications from it and they want it in writing.

4                     Do you have any comments on this?

5                     THE WITNESS (Bukowski): From a  
6           technical standpoint it can certainly be done. I  
7           think, you know, it's really about the contract  
8           issues and lending issues that Jim brought up.

9                     MR. LYNCH: Sorry. I just didn't hear.  
10          You faded at the end. I didn't hear you.

11                    THE WITNESS (Bukowski): I was saying  
12          from a technical standpoint it can certainly be  
13          done, but it's really more of a bank issue, as Jim  
14          mentioned.

15                    MR. LYNCH: Following up on Mr. Hannon's  
16          talk about the new panels, the decrease in size of  
17          the footprint. Technology seems to change every  
18          few months or so. We're going on 20 years here.  
19          So if newer technology comes about with panels,  
20          with inverters, with transformers that can reduce  
21          the size of the footprint on the property, but  
22          give you the same power output that you just told  
23          Mr. Hannon that you could get, would you do that?

24                    THE WITNESS (Walker): We could not add  
25          a capital project to it in the future. In other

1 words, we're obligated once we sign the financial  
2 documents to guarantee cash flow from that project  
3 for 20 years, to pay for the -- the debt and  
4 equity that's in that project.

5 So to open it up would mean someone  
6 would have to buy out the bank, pay off the loan,  
7 pay off the equity in order to invest additional  
8 dollars into it. In other words, we cannot modify  
9 that site because that site has collateral. It's  
10 collateralized to the bank and -- and they're  
11 requiring and expecting a certain cash flow based  
12 upon the --

13 MR. LYNCH: But you already have  
14 modified it?

15 THE WITNESS (Walker): Once it starts  
16 operating it's operating and that's as far as we  
17 can -- we can't change it after that. It has to  
18 deliver the cash flows in order to pay the bank  
19 it's expected payments, to pay for the principal  
20 and the debt as well as the TechEquity partners.

21 MR. LYNCH: Okay. Now this is kind of a  
22 few general questions. As far as security is  
23 concerned and I'm thinking this came up at the  
24 last hearing from the public, too.

25 With regards to fire, I know it's, you

1 know, it's probably a very low percentage that you  
2 could ever have a fire there. But if you do, are  
3 you going to give any special training to the  
4 local fire department or first responders, you  
5 know, with regards to how you deal with the type  
6 of fire you're going to have?

7 THE WITNESS (Walker): In all cases  
8 right now -- we have a vice president of safety  
9 and that vice president has directors and other  
10 people reporting to him for safety, because we do  
11 quite a bit of federal government work on military  
12 bases. So we have a full safety protocol.

13 So for our solar projects we have that  
14 safety head, or his people who report to him will  
15 meet with the fire department and they give a  
16 whole seminar on how to respond if there's a fire.  
17 So we already have a program set up and it's been  
18 very well received by the fire officials.

19 MR. LYNCH: Just a followup to that.  
20 Would the local fire department require any  
21 special equipment to deal with a fire at a solar  
22 farm?

23 THE WITNESS (Walker): To date that has  
24 not come up. There's been no -- it's not like a  
25 high-rise building or anything like that. So

1           there's no -- no fire department has mentioned to  
2           us that they need such equipment and we have  
3           projects of this size in other parts of the  
4           country and it's not come up.

5                       MR. LYNCH: Just so I heard you  
6           correctly, you are going to provide training?

7                       THE WITNESS (Walker): That's correct.

8                       MR. LYNCH: Now as far as storms are  
9           concerned, they're concerned about the flooding.  
10          But I noticed that in the recent storms in Florida  
11          and Texas -- not the fires in California. That's  
12          a different story. But I saw some of the damage  
13          that was done to solar.

14                      And to my surprise the panels didn't  
15          collapse -- and when they were hit with  
16          projectiles which totally destroyed the panels.  
17          Now my question is similar. We had high winds  
18          last night. That could have happened here.

19                      How long would it take you to replace  
20          the panels that are damaged and be back up and  
21          operating?

22                      THE WITNESS (Walker): So if I could  
23          just give some color to that? So we've been  
24          operating solar projects for nine years and many  
25          of these are on the coast. They have to withstand

1 110, 120 mile-per-hour winds. And we have seen  
2 some nor'easters that have been challenging.

3 To date we've had no failures from the  
4 winds, but we have had failures when an HVAC unit  
5 had -- a heating, ventilating and air-conditioning  
6 unit up on a roof had it's covering come off and  
7 then hit the panels.

8 So when that happens we have to order,  
9 we have to have someone go up, assess the damage,  
10 order the new parts, work with the insurance  
11 company. It's more than a month to --

12 MR. LYNCH: Just to stop you for a  
13 second. Like I mentioned earlier, when you have  
14 anything, 85 to 115-mile an hour winds in your  
15 wooded area you're going to get branches that are  
16 flying through the air everywhere. And that seems  
17 to be what happened more or less in Florida, not  
18 as much in Texas.

19 And the pictures I saw, there was  
20 extensive damage to these panels. So you know,  
21 your base may be able to withstand 115  
22 mile-an-hour winds, but some of the panels are  
23 still going to get hit by projectiles.

24 THE WITNESS (Walker): Right, and I  
25 understand. And that's why I said that's --

1           that's the only damage we've seen is when  
2           projectiles -- but how long will it take to  
3           rebuild? It will be site by site. In other  
4           words, I don't know how much damage it will be.

5                         Someone will have to go assess it. The  
6           insurance company will get involved. We'll order  
7           the parts. We'll get contractors out to fix it.  
8           The banks will require us to -- and the utilities  
9           will require us to do it at the utmost speed, but  
10          it will depend upon the amount of damage.

11                        You're asking how much time it will  
12          take. It will depend upon the amount of damage.

13                        MR. LYNCH: I guess what my real  
14          question is, you know, you're going to be off  
15          line, and how long are you going to be off line?  
16          Or is there something you can do, you know, to the  
17          panels that aren't damaged to stay online?

18                        THE WITNESS (Walker): Are these string  
19          arrays or central? Central inverters?

20                        THE WITNESS (Lindsay): They're central.

21                        THE WITNESS (Walker): How many?

22                        THE WITNESS (Lindsay): Eight.

23                        THE WITNESS (Walker): So it's broken up  
24          into eight systems. So if all eight are -- in the  
25          systems are damaged across the whole array it will

1 take, you know, months before we can get that back  
2 up online. If it's only one area we can still  
3 operate the rest of the array.

4 MR. LYNCH: And now as far as getting  
5 the allowable full federal tax credits you have to  
6 be up and operating by the end of 2018?

7 THE WITNESS (Walker): Nineteen, isn't  
8 it? I think it's the end of '19, but we will  
9 be -- we'll be -- my understanding is that we have  
10 to be substantially complete, and we will be  
11 substantially complete by that date.

12 MR. LYNCH: Now my last question is  
13 going back to the emergency situation, whether it  
14 be a fire -- or is there a vehicle or something, a  
15 process in place that can turn off the  
16 transformers and the inverters so that anyone  
17 walking or going within this, your property is  
18 protected and they're safe?

19 THE WITNESS (Walker): Do you mean  
20 emergency people?

21 MR. LYNCH: Yes. Just whatever is hot,  
22 I want to make sure it's turned off.

23 THE WITNESS (Walker): Yeah. So just to  
24 be clear, the emergency responders will -- will  
25 have the keys and the ability to shut off the



1           you went from one to the other and you reduced  
2           your footprint, if you go to another higher  
3           wattage out what's readily available, you've  
4           reduced your footprint even more?

5                   THE WITNESS (Lindsay): Right. There's  
6           not going to be a significant -- in the timeframe  
7           that we have there's not going to be a significant  
8           change.

9                   THE WITNESS (Walker): I put a lot of  
10          pressure on our engineers to try to get a higher  
11          wattage panel because I was very unhappy about  
12          reducing what we had to do, about making the  
13          changes that we made from an environmental  
14          perspective.

15                   And they told me that we could not get  
16          right now panels greater than 400 watts per panel  
17          and be assured of getting that. Then there are a  
18          few that are available over in China, but that we  
19          could not be assured of getting them. And so we  
20          had to make a commercial decision to go with what  
21          was available.

22                   MR. SILVESTRI: Just a followup question  
23          on the 400 watts. Was that also part of the  
24          driver with your change on the inverters?

25                   THE WITNESS (Walker): No. The -- the

1 driver was a meeting that we had with Connecticut  
2 Light & Power to try to get the -- we had been  
3 concerned that the approval for our  
4 interconnection is now -- six months late?  
5 Approximately six months late and we -- we were  
6 wondering what's going on. And that's when they  
7 informed us that ISO New England was exerting its  
8 authority, let's say, onto CL&P and requiring that  
9 ISO New England wanted to have control over the  
10 generation.

11 And so what they're thinking is  
12 if there's -- and correct me if I'm wrong -- if  
13 there's, let's say there's a voltage drop in that  
14 part of the region and they want -- so they'll  
15 want us to increase the voltage. If there's too  
16 much voltage they'll want us to decrease the  
17 voltage.

18 In other words, they want us to act as  
19 a -- to help them control the voltage and supply  
20 of electricity in that area and they'll have the  
21 control over it. And so they wanted us to change  
22 the inverters that allows them electronically --  
23 and we have to put in fiber-optic cable so that  
24 they can have that control, to control our  
25 inverters.

1           So basically that's going to be a  
2 resource to make sure the voltage in that area  
3 remains, you know, within whatever bounds they  
4 want. But those bounds that ISO New England wants  
5 to control it at are outside of the rules and  
6 regulations that Connecticut Light & Power  
7 operates within.

8           So there's a debate going on between  
9 Connecticut Light & Power and ISO New England  
10 about this type of control which we are not a  
11 party to. But regardless, we said we would change  
12 the inverters and we would -- and we did that.

13           MR. SILVESTRI: Thank you for that  
14 explanation.

15           Thank you.

16           THE CHAIRMAN: Okay. That concludes the  
17 cross-examination by the Council. Next, the Town  
18 cross-examines.

19           MS. RIGDON: I'm going to apologize in  
20 advance because I think some of my questions are a  
21 little more elementary than others are asking, but  
22 solar is a little over my head. So I'm trying to  
23 understand all this.

24           So I guess my first question to the  
25 panel would be, do any of you have experience with

1 the size of the project? Have you ever done  
2 anything this large before?

3 THE WITNESS (Walker): Yes, Ameresco has  
4 done a project that we completed and it's  
5 operating in Maryland that's this size. It's at  
6 Fort Detrick.

7 MS. RIGDON: Okay. And what about this  
8 sort of terrain? Have you dealt with this sort of  
9 terrain before in building an array?

10 THE WITNESS (Walker): Yeah. Well,  
11 actually we've dealt with terrain that's much more  
12 complicated than this being landfills, but we've  
13 dealt with all types of terrain.

14 So we've built projects privates along  
15 the Mass highway, the Mass Pike, projects that  
16 involve tree cutting, a project that was on a  
17 cranberry bog that involved tree cutting in the  
18 mud. So we've had a very wide range of projects.

19 Our most complicated project was at  
20 Logan Airport where we were on the air side and we  
21 were told that if a panel flew off while we were  
22 in construction and a jet was there, we just  
23 bought a jet. So we don't face that type of a  
24 project here.

25 MS. RIGDON: Okay. And again, this was

1 before my time the Town, but in terms of the pilot  
2 agreement -- and please correct me if I'm wrong.  
3 So Candlewood Solar, LLC, will be leasing the  
4 property, but Ameresco will be basically funding  
5 the project. Is that correct?

6 THE WITNESS (Walker): Ameresco and its  
7 financing entities will own the project. Ameresco  
8 will operate and maintain the project for the life  
9 of the project. The property owners will receive  
10 a lease payment for our use of the land, and the  
11 Town will receive a tax payment for our  
12 participation of a project within the town.

13 MS. RIGDON: So I guess my question is  
14 in terms of the pilot agreement which speaks of  
15 decommissioning and things of that sort,  
16 Candlewood Solar has signed onto that pilot  
17 agreement, but Ameresco in and of itself has not.  
18 But Ameresco seems to have the assets per se.

19 So the LLC, I don't know what its worth  
20 is. I don't know if there are any assets for the  
21 LLC.

22 THE WITNESS (Walker): Big assets. It's  
23 a 40-million dollar solar farm.

24 MS. RIGDON: Okay. So I guess my  
25 question is in terms of the pilot agreement would

1 Ameresco be willing to sign onto that as well  
2 aside from the LLC?

3 THE WITNESS (Walker): No. All of  
4 our -- we have -- we've built \$5.5 billion of  
5 renewable energy projects. All of the projects  
6 that are financed have individual LLCs. So you  
7 can go to the website and look at -- we're a  
8 public company traded on the New York Stock  
9 Exchange, so you can look at all the LLCs.

10 The financing entities that each one  
11 finances, there they're financed as separate  
12 corporate organizations and -- and that's how  
13 project financing is done and financed with the  
14 banks.

15 MS. RIGDON: Okay. I've also -- in  
16 looking through all the filings, I have seen a lot  
17 about protected species. So the slimy  
18 salamanders, the box turtles. Have there been any  
19 studies about other species?

20 We have bobcats in New Milford. We have  
21 bears. Has there been any study on the impact of  
22 those animals?

23 THE WITNESS (Butler): No, there hasn't  
24 been any study specific to nonregulated or  
25 non-wetland dependent species.

1 MS. RIGDON: And do you know, in your  
2 opinion, what impact if any there would be on  
3 other species?

4 THE WITNESS (Butler): You can speculate  
5 the change in woodland character to a grassland,  
6 or solar panel with grass understory is going to  
7 change the dynamics of the -- of the local  
8 ecosystem there.

9 So animals that are dependent on trees  
10 are going to be excluded from the new area, or at  
11 least marginalized, but it's general -- anytime  
12 you displace a natural environment with a somewhat  
13 unnatural substitute you have a change in the  
14 dynamics.

15 As I have said before, this case is  
16 different than a residential subdivision or a  
17 commercial, or almost any other feature in that it  
18 doesn't have any road traffic. It will cause  
19 ongoing mortality to the residents of the  
20 perimeter of this area. There's not going to be  
21 vehicular strikes.

22 There's not going to be animals captured  
23 and drowned in the stormwater systems because  
24 we're not going to have gutters with deep sunk  
25 catch basins and all these kinds of things where

1 animals go in and where they can't come out.

2 And so those other legacy impacts aren't  
3 going to be associated with this kind of  
4 configuration just because it's -- there's no  
5 people there. There's no cars there. There's no  
6 landscaping there. There's no chemicals applied  
7 for keeping your -- your lawn green and your  
8 hedges tall and bright. So it lacks all those  
9 changes that is more typical for a development of  
10 this size or any size when it's got buildings and  
11 automobiles and parking lots.

12 MS. RIGDON: Do we pose any risk to  
13 abutting landowners and pushing black bear and  
14 bobcats out of this area?

15 THE WITNESS (Butler): You say, risk to  
16 landowners. I thought you were going to follow up  
17 with pushing them onto their land. But you're  
18 indicating that pushing them out is the -- is the  
19 question?

20 MS. RIGDON: Well, "pushing them," and  
21 that may not be the right term, but you know,  
22 displacing animals so that they are going on  
23 residences. So you're walking out your back door  
24 and there's black bear or bobcat and I know that  
25 that's already an issue, but do you think that

1           this project will increase that for people in the  
2           area?

3                   THE WITNESS (Walker): I don't think we  
4           studied that. We don't study that. So we're  
5           required to study endangered species, not species  
6           that are, you know, deer, let's say that are not  
7           endangered at all -- and trying to find ways in  
8           which to hunt them. So we did not evaluate other  
9           species except species that are protected.

10                   MS. RIGDON: Okay. Now in terms of what  
11           I will call the access road. So how the array  
12           would be accessed, we did hear some questions  
13           regarding Route 37 to Candlewood Mountain Road.  
14           You know, that's the only way in, the only way  
15           out.

16                   Had you looked at any possibility of  
17           connecting to Route 7?

18                   THE WITNESS (Lindsay): We have not  
19           looked at that, at that detail. We're looking at,  
20           you know, coming in if off of Candlewood Mountain  
21           road, it's an already existing access way.

22                   MS. RIGDON: And again, this is so over  
23           my head, but interconnection lines, you know, I've  
24           looked at the site maps. Did you explore any -- I  
25           don't even know if any of this is possible, but



1 I'm going to look at the figure. There is an  
2 existing access road and it will be visible along  
3 that existing access road that's currently -- I  
4 believe it's Connecticut Light & Power.

5 THE WITNESS (Lindsay): Right. That's  
6 FirstLight.

7 MR. MICHAUD: FirstLight. So in terms  
8 of seeing the interconnection lines themselves,  
9 and I know you spoke about heights and heights of  
10 trees, is there a risk that people going to the  
11 beach are going to be looking at these lines?

12 THE WITNESS (Lindsay): There's very  
13 little visibility, if any. Most of it runs  
14 through an area that will be, you know, within a  
15 tree area. There will be -- the poles won't be as  
16 high as the trees.

17 There's only a small section where it  
18 comes onto the existing access road where it's --  
19 I don't think it's going to be visible because  
20 it's quite a bit lower than the -- than the lake,  
21 but it's not -- it's not concealed by trees.

22 In that area, and in fact most of that  
23 area you're at an elevation below the lake.  
24 There's an embankment there. So it's going to be  
25 largely invisible.

1 MS. RIGDON: I guess going to the fire  
2 hazard issue, which is something else that's over  
3 my head, but what is the risk?

4 Is there a large risk that there could  
5 be a fire at this site? Is it minimal? What  
6 could cause a fire, I guess is my question?

7 THE WITNESS (Walker): There's probably  
8 a greater risk of lightning causing a fire, a  
9 strike. People -- we don't put these systems in  
10 on rooftops and fields if they could cause a fire.  
11 That would be a really bad event. So they're  
12 designed not to cause fire.

13 MS. RIGDON: And have you in any of your  
14 other projects dealt with -- New Milford is a  
15 large town, but it's also a small town. We have  
16 volunteers as first responders. Have you worked  
17 with volunteer fire departments in your training  
18 before, or have they been in larger cities where  
19 there's paid fire departments?

20 THE WITNESS (Lindsay): Right. It's  
21 both. We've worked in larger and smaller  
22 communities. We've worked in a lot of  
23 communities.

24 You know, I think the volunteer  
25 emergency responders are just as able to, you

1 know, absorb and -- and make use of the training  
2 that we provide.

3 MS. RIGDON: Okay.

4 What about noise? What kind of noise is  
5 emitted once the array is constructed?

6 THE WITNESS (Lindsay): The panels are  
7 silent. The inverter -- inverter to transformers  
8 will make -- there is a hum during the day.  
9 During the night everything is silent because  
10 everything is off.

11 The noise levels -- and I may defer to  
12 Amec on this. There in the original petition --  
13 and we outlined -- and in response to some  
14 interrogatories we did some outlining of what the  
15 noise levels would be. And really the noise  
16 levels of inverters are, you know, on the order of  
17 60 -- 60 decibels or so at maybe, you know, just a  
18 few feet away.

19 And the array itself is going to be  
20 several hundred feet from any potential receptors.  
21 So it's really not going to be -- we don't believe  
22 noise is going to be an issue at all. It really  
23 won't be audible.

24 MS. RIGDON: Okay. And I think at the  
25 last hearing we had spoken a little bit about

1 herbicides and pesticides. Is there any intention  
2 to utilize those on the property?

3 THE WITNESS (Walker): No. We don't use  
4 herbicides or pesticides on any of our sites.

5 MS. RIGDON: And going back to  
6 Candlewood Solar being -- leasing the property,  
7 the property owner or potential property owner,  
8 have they committed to this conservation easement  
9 that I've heard testimony about surrounding areas?  
10 Is that a commitment?

11 THE WITNESS (Lindsay): Yes.

12 MS. RIGDON: Okay. Is there any risk  
13 with the construction of this project to impact  
14 surrounding property values?

15 THE WITNESS (Walker): We've built a lot  
16 of projects. We've never heard anyone tell us  
17 that the property values nearby was, you know, was  
18 in fact impacted.

19 MS. RIGDON: Okay. And you've spoken a  
20 little bit about system monitoring. What does  
21 that entail? How is the system monitored?

22 THE WITNESS (Walker): All our system  
23 is -- has what's called a data acquisition system,  
24 and the system is instrumented. So all the  
25 data -- well, there's two, a couple places where

1 all the data goes to.

2 So some of the data goes to Connecticut  
3 Light & Power and to ISO New England so they can  
4 have proper control over the -- that they want.  
5 We also get data, and so we're monitoring it and  
6 that data is coming to us constantly.

7 And we have an operation and maintenance  
8 group that is, you know, evaluating and looking at  
9 it and making sure that nothing is going wrong.

10 We are also happy to make that data  
11 available to the community and it can be part of a  
12 science program if they would like. We can also  
13 work to put it on a website for the community.  
14 And we would also be happy to provide materials  
15 that are integrated with it for teaching within  
16 the schools.

17 And I don't know the technology that's  
18 in the school, but it all can be accessed via the  
19 Internet. And the data can be downloaded by the  
20 schools and they can run, you know, their own  
21 experiments about it's, you know, the weather is  
22 going to be sunny tomorrow. How much do you think  
23 it will produce?

24 And anyway, so that data is available  
25 for us. It's available for the utility and ISO

1 New England and we can make it also available to  
2 the Town.

3 MS. RIGDON: So is there an actual --  
4 and probably not cameras, but is there a visual on  
5 this project, or just data coming in and out?

6 THE WITNESS (Lindsay): There's just  
7 data. We don't typically have monitoring cameras.  
8 We don't -- haven't done that, haven't seen the  
9 need.

10 MS. RIGDON: And in terms of  
11 construction, from the time construction begins to  
12 the time the project is finished how long do you  
13 anticipate that period of time to be?

14 THE WITNESS (Walker): The construction  
15 is going to be, we think, in stages because we  
16 have to work around environmental. So we think  
17 that tree cutting will happen early in one stage  
18 so we avoid -- remind me again the bats? Is that  
19 bats we're avoiding?

20 THE WITNESS (Foster): (Nodding  
21 affirmatively.)

22 THE WITNESS (Walker): But the  
23 construction in earnest will not start until we  
24 get all the approvals including the  
25 interconnection approval from the utility, the

1           Siting Council approval and any other approvals  
2           that we need.

3                       And our own -- I forget how long is our  
4           construction?

5                       THE WITNESS (Lindsay):   Approximately  
6           nine months total.

7                       THE WITNESS (Walker):   Nine months total  
8           and that the utility will have it's own  
9           construction, which will be out on Route 7, I  
10          believe, only Route 7.

11                      MS. RIGDON:   Do we have an estimate as  
12          to how long that construction on Route 7 would  
13          take?

14                      THE WITNESS (Walker):   I don't think  
15          you'll see it.  I think they're thinking drilling  
16          underneath the road.  So I don't think it will  
17          affect anyone.

18                      These plans are still being worked on.

19                      MS. RIGDON:   Sure.  Sure.  Just an  
20          estimate as to how long the construction would  
21          take.

22                      Now in terms of other locations that you  
23          investigated I noticed that most, or if not all,  
24          of those locations were in New Milford.  Did you  
25          explore any areas outside of New Milford?

1           THE WITNESS (Walker): As I mentioned  
2 this morning, we did not. The land developers  
3 came to us. They had been investigating  
4 properties and we only had a very short period of  
5 time in which to respond to this RFP by the time  
6 it was issued and the time that we had to develop  
7 the project.

8           So we did not have time to, say, look up  
9 in Maine or New Hampshire or other states. So  
10 this was the project that -- this was the land  
11 that came before us and this was the project that  
12 was developed.

13           MS. RIGDON: And I think there was also  
14 mention of the Century Brass parcel. Did you  
15 explore that parcel?

16           THE WITNESS (Walker): We did, and there  
17 were two -- a couple issues. One, as Joe  
18 mentioned, at the time there was a PANDA project  
19 being done there.

20           Two, the project is not -- the site is  
21 not large enough for this array. And then there  
22 was a wetland issue.

23           THE WITNESS (Lindsay): Right. There's  
24 considerable wetlands, too, which limits the --  
25 the area that you can use at the site.

1 MS. RIGDON: What about abutting  
2 property to that Century Brass piece? Did you  
3 explore properties situated around it?

4 THE WITNESS (Lindsay): We did not, no.

5 MS. RIGDON: Okay. There was some  
6 mention from the Department of Agriculture about  
7 soil compression. Do you have any plans in place  
8 to avoid the compression?

9 THE WITNESS (Bukowski): The only areas  
10 that would be actively compacted would be the  
11 access roads.

12 MS. RIGDON: And this is probably just a  
13 typical lawyer question, but you talked about  
14 liability issues with sheep and livestock.

15 What are those liability issues?

16 THE WITNESS (Lindsay): I would let  
17 anyone chime in who wants to, but they could, I  
18 mean, sheep could get spooked. They could run  
19 into the panels. They could, you know,  
20 inadvertently do damage. They could revert --  
21 inadvertently chew something.

22 And I think, you know, that's some  
23 specific things. I think it's also just the  
24 unknowns in terms of introducing that into the  
25 array.

1           THE WITNESS (Walker): But the bottom  
2 line is that -- because I think that would be a  
3 great idea personally. I love the idea. I keep  
4 asking, why can't we do it?

5           And we have to go to the bank. They  
6 don't think like I do, and there's just no way so  
7 far. Hopefully we can change their mind at some  
8 point in time because I think it's a good idea,  
9 but I'm not that good a salesperson.

10          MS. RIGDON: What does the bank require  
11 in terms of insurance for the property?

12          THE WITNESS (Walker): We will have our  
13 own insurance for -- the SNL required insurance.  
14 I don't remember the insurance amounts, but we  
15 will be fully insured.

16          THE CHAIRMAN: Mr. Lynch has a followup.

17          MR. LYNCH: Could I just follow up on  
18 the insurance question?

19          THE WITNESS (Walker): Yes.

20          MR. LYNCH: Now does that include damage  
21 and then liability, or just one or the other?

22          THE WITNESS (Walker): I'm not the  
23 attorney. So I know that -- I know there's  
24 insurance for damage, you know, lightning or  
25 something happens. Consequential damage, things

1           that we cause we're on the hook for. Things that  
2           we don't cause we're not on the hook for.

3                       And non-consequential damages we're not  
4           on the hook for, but that's the most that I -- if  
5           you have a follow-up question, I would ask an  
6           interrogatory and I'll get our attorney to answer  
7           that question.

8                       MR. LYNCH: I would think I would want  
9           to have a liability policy, too, in case someone  
10          was injured. Am I not correct?

11                      THE WITNESS (Walker): Yeah, we do. I  
12          know we do, but the details of our insurance goes  
13          on for pages, and I don't remember all the --

14                      MR. LYNCH: I just wanted to make sure  
15          it was inclusive of everything.

16                      THE WITNESS (Walker): It's inclusive,  
17          yeah. As I said, we -- most of our clients are  
18          state, city, town and federal government and they  
19          require the full --

20                      MR. LYNCH: I know what the feds  
21          require. Thank you very much.

22                      MS. RIGDON: Okay. One last question  
23          and it's about box turtles which are, again over  
24          my head. But there was mention of a source of  
25          mortality for potential box turtles on the

1 property, which I understand the fencing is taking  
2 precautions for mowing and things of that nature.

3 What about when logging and construction  
4 trucks are present on the property? Is there a  
5 risk for mortality there as well?

6 THE WITNESS (Butler): The way it's  
7 proposed at the moment is we will cut the trees in  
8 the non-bat season, or inactive migratory season  
9 and stump the site and then isolate it so that  
10 animals, prior to the security fence being  
11 installed, animals in the periphery won't have  
12 access to it.

13 That's probably the greatest liability,  
14 is you strip a site and if there are any box  
15 turtles out there, they smell the denuded soil and  
16 that's a great place for them to nest. And so  
17 animals may come.

18 So that's why we want to sequester the  
19 entire array field or any working, actively  
20 working area during the active season from box  
21 turtles. So they don't -- it will prevent  
22 animals -- from it being an attractive nuisance  
23 for animals that are in the vicinity.

24 MS. RIGDON: In terms of the fence  
25 around the array -- and I'm sure this is in the

1 materials, but not off the top of my head -- but  
2 how tall is the fence?

3 THE WITNESS (Lindsay): Seven feet.

4 MS. RIGDON: Okay. Just because I get  
5 into the attractive nuisance, you know, the  
6 lawyerly concerns.

7 THE WITNESS (Lindsay): That is a code  
8 requirement.

9 MS. RIGDON: Okay. No further  
10 questions.

11 THE CHAIRMAN: Thank you.

12 Mr. Levesque, you have a followup?

13 MR. LEVESQUE: Just one question. You  
14 mentioned something about the value of the  
15 project. What's the market value of it?

16 THE WITNESS (Walker): How do you define  
17 market value?

18 MR. LEVESQUE: You said something about  
19 \$40 million?

20 THE WITNESS (Walker): That's what it  
21 costs to build it. So all the material, all  
22 the -- all the workers, us being in this room, you  
23 name it.

24 MR. LEVESQUE: And then -- but your  
25 pilot tax, your tax agreement says --

1 THE WITNESS (Walker): No, no. That  
2 excludes the pilot tax agreement. That's for it  
3 to get to the point where we have an operating  
4 facility.

5 MR. LEVESQUE: Sure, but your property  
6 tax is going to be 75,000 in one year, the first  
7 year?

8 THE WITNESS (Walker): I forget what it  
9 is. I don't have the schedule.

10 MR. LEVESQUE: Yeah, that's on the  
11 schedule. Okay. Thank you.

12 THE CHAIRMAN: Okay. Now I just want to  
13 go through to see cross-examination by the  
14 Department of Agriculture. Is there anybody still  
15 here?

16  
17 (No response.)

18  
19 THE CHAIRMAN: Cross-examination by  
20 rescue Candlewood Mountain?

21 LISA OSTEN: We thank you very much for  
22 the opportunity. Our counsel couldn't be present  
23 today. If we ask questions without counsel  
24 present he would have to resign, and we can't  
25 afford to lose that.

1           He did have good reasons for not being  
2           able to be here today and we will have to decline,  
3           although we might ask you if we could continue  
4           that at the next session -- which you may not  
5           allow.

6           THE CHAIRMAN: Well, I couldn't have  
7           said that better myself. There will be -- so  
8           anyway, thank you for your explanation.

9           We do our best to try to work this out  
10          so everybody gets the opportunity, and we schedule  
11          the meetings in advance. There are a lot of  
12          different parties and individuals. So we do our  
13          best at our end.

14          So with that said, there is another,  
15          which I will get to shortly, November 14th, which  
16          we will have a continuation of the hearing which  
17          we'll have the appearance by the Town for a  
18          cross-examination of the Town, followed by  
19          appearance of Rescue Candlewood Mountain to be  
20          cross examined by, you know, the various other  
21          parties.

22          If, and I'm only going to say if -- if  
23          time allows we will try to give you, through your  
24          attorney, the opportunity. So that's an if, but I  
25          would also -- it's almost a plea, because I know

1 your attorney was very thorough, but if he could  
2 be -- if you could explain to him that a lot of  
3 cross-examination and questions have been asked  
4 and answered and the Chairman occasionally gets  
5 grumpy when he hears things being repeated because  
6 people couldn't make it, so -- so that's the best  
7 we can do. We will do our best to, you know, to  
8 prevent that.

9 MR. MICHAUD: Mr. Chairman, may I ask a  
10 question?

11 THE CHAIRMAN: Sure.

12 MR. MICHAUD: Is the petitioner going to  
13 be required to bring our panel back on the 14th or  
14 are we done for the day?

15 THE CHAIRMAN: My attorney does a much  
16 better job speaking than into my ear, then who  
17 knows what comes out the other end.

18 MS. BACHMAN: Attorney Michaud, yes, I  
19 would say your panel would be required to show up  
20 on November 14th, however considering we are  
21 starting with the appearance of the Town at  
22 11 a.m. and then we're going to go to the  
23 appearance of rescue Candlewood Mountain  
24 thereafter, then perhaps your panel could appear  
25 at 1:45, the same as was the Department of



1           hearing adjourned. Thank you all and drive home  
2           safely.

3

4                           (Whereupon, the above proceedings were  
5           concluded at 4:06 p.m.)

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CERTIFICATE

I hereby certify that the foregoing 202 pages are a complete and accurate computer-aided transcription of my original verbatim notes taken of the Administrative Hearing in Re: PETITION NO. 1312, CANDLEWOOD SOLAR, LLC, PETITION FOR A DECLARATORY RULING THAT NO CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED IS REQUIRED FOR THE PROPOSED CONSTRUCTION, MAINTENANCE AND OPERATION OF A 20 MEGAWATT AC (26.5 MEGAWATT DC) SOLAR PHOTOVOLTAIC ELECTRIC GENERATING FACILITY LOCATED ON A 163 ACRE PARCEL AT 197 CANDLEWOOD MOUNTAIN ROAD AND ASSOCIATED ELECTRICAL INTERCONNECTION TO EVERSOURCE ENERGY'S ROCKY RIVER SUBSTATION ON KENT ROAD IN NEW MILFORD, CONNECTICUT, which was held before ROBIN STEIN, Chairman, at the Connecticut Siting Council, 10 Franklin Square, New Britain, Connecticut, on October 31, 2017.



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Robert G. Dixon, CVR-M 857  
Notary Public  
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My Commission Expires: 6/30/2020

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