In the Matter Of:

DNREC Public Hearing Docket 2019-R-CCE-0019

THE GREEN ENERGY PROGRAM July 28, 2021



		2
1	APPEARANCES:	
2	On behalf of the State of Delaware	
3	Delaware Department of Natural Resources & Environmental Control:	
4	LISA A. VEST, HEARING OFFICER SASCHA MOHAMMED	
5		
6	On behalf of the State of Delaware Delaware Department of Natural	
7	Resources & Environmental Control: Division of Climate, Coastal & Energy	
8	BRETT SWAN, PLANNER III	
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		3
1	HEARING OFFICER VEST: Good	
2	evening. I believe that everyone has	
3	joined and is now connected and ready.	
4	So, we are going to go ahead and begin	
5	tonight's proceedings.	
6	I want to thank everyone for	
7	taking the time, to take the time out of	
8	your busy schedules and join us tonight.	
9	The date is Wednesday,	
10	July 28, 2021. And we are here this	
11	evening to provide the Virtual Platform	
12	for DNREC to conduct its Public Hearing	
13	on the Proposed Amendments to Delaware's	
14	Green Energy Fund Regulations.	
15	For those of you who may not	
16	know me, my name is Lisa Vest. And	
17	Secretary Garvin has designated me to	
18	serve as Hearing Officer for these	
19	proceedings.	
20	Just to set the stage	
21	tonight before we begin with the	
22	information, specifically to set the	
23	parameters of DNREC's Public Hearing	
24	protocols, this hearing is conducted	

4 1 virtually. No staff is being gathered in the same room. Everyone is participating 2 independently at their own respective 3 4 locations. 5 While there are no physical sign-in sheets to document physical 6 attendance, like we would normally do for 7 8 a face-to-face meeting, the Webex 9 Platform does generate an electronic 10 sign-in list for those that are virtually 11 attending tonight. So, the Department 12 will still have a verifiable way of recording those who have electronically 13 attended tonight. And, again, I do thank 14 15 everyone for taking the time to join us. 16 At the conclusion of these 17 introductory remarks, I will be turning 18 the hearing over to Department Staff. They have a brief PowerPoint presentation 19 20 regarding this proposed Regulatory 21 Actions. And, again, that's being done 22 not only for the public's benefit, but 23 for the benefit of building the hearing 24 record concerning this matter.

5 1 There is still a court 2 reporter that is in virtual attendance tonight. They will prepare a verbatim 3 4 transcript of the hearing pursuant to the statutory requirement for DNREC to do so. 5 And as always, that transcript will be 6 posted on the hearing website page 7 8 associated with this matter as soon as it 9 is received. 10 Following the conclusion of 11 the Department's presentation, we will 12 then open the floor to receive live 13 comment from those Members of the Public 14 that have preregistered with us to do so. 15 Tonight, we have two Members of the Public that have registered to 16 17 offer comment. They will be recognized 18 at that time in the order in which they were preregistered. And each will be 19 given the allotted three minutes of time 20 21 to speak. 22 As is the case with all 23 DNREC Public Hearings, the Department 24 wishes to ensure that everyone is able to

6 1 offer their comments for inclusion into 2 the record that is being generated in 3 this matter. 4 Therefore, the record will 5 remain open to receive comment beyond tonight's hearing and will remain open 6 through August 12, 2021. In that way, 7 8 the public does have an opportunity to 9 offer written comment for the Secretary's 10 consideration should they wish to do so. 11 I would also encourage 12 everyone attending this proceeding tonight to visit DNREC's Public Hearing 13 website. It's found under the 14 15 Administrative Law section of our web, and that gives more details concerning 16 17 this proposed Regulatory Action. 18 The Department's presentation that we're getting ready to 19 hear, along with all of the exhibits that 20 21 will be entered into the record, and all 22 of the other documentation, including the 23 comments that come in and are submitted 24 regarding this matter will all be posted

7 1 on the hearing web page dedicated to 2 these proposed Green Energy Fund Regulatory Amendments. And the public 3 can gain a wealth of information by 4 5 reviewing the same. 6 Of course, all mechanisms that have always been available by which 7 to offer comment remain in effect. There 8 9 is an electronic link. There are E-mails 10 and, of course, the United States Postal 11 Service. Also, the following protocols 12 do remain in place for all DNREC 13 hearings. Number one, all comment 14 15 received must be limited solely to the 16 subject matter of tonight's hearing. 17 All comments germane to that 18 subject matter will be incorporated into the hearing record that is being compiled 19 20 in this matter. 21 Number two, as previously 22 noted, in order to ensure that everyone 23 who wishes to offer comment for the Secretary's consideration is 24

8 1 accommodated. The public comment period shall remain open beyond tonight and 2 through August 12, 2021. 3 4 Number three, there is only 5 one authentic record of this formal proceeding tonight. And it is the court 6 reporter's official verbatim transcript 7 8 which, again, will be posted on the 9 hearing web page immediately upon its 10 receipt. 11 Number four, the statutory 12 purpose of tonight's hearing is, once again, to build the record with regard to 13 14 the Department's proposed Regulatory 15 Actions. The record consisting of the transcript of the hearing tonight, all 16 17 comments that come in, all exhibits, and 18 eventually, The Hearing Officer's report will be reviewed by Secretary Garvin. 19 20 The Secretary will 21 ultimately issue an order following that 22 review, and that order will contain his 23 decision on the matter and the reasons 24 therefore.

		9
1	Number five, it's important	
2	to note that absolutely no decision has	
3	been made about these Proposed	
4	Regulations by the Department; nor will	
5	any decision be made tonight with regard	
6	to this matter.	
7	The public comment period is	
8	going to remain open, again, through	
9	August 12, 2021, so that Members of the	
10	Public have an opportunity to submit	
11	comment for the Secretary's	
12	consideration, should they wish to do so.	
13	Comments may be submitted	
14	through the comment form link on the	
15	hearing page via E-mail to	
16	DNRECHearingComments@delaware.gov or,	
17	again, via the U.S. Postal Service at the	
18	physical address for DNREC as indicated	
19	on the PowerPoint slide, the hearing page	
20	and public notices previously issued in	
21	this matter.	
22	Please note that written	
23	comments to DNREC may not be submitted	
24	using any type of social media platform,	

10 1 such as Twitter, Facebook, YouTube or standardized text messaging. 2 Lastly, please note that, 3 4 whether comments were received prior to the hearing tonight, whether they come in 5 during the course of the proceedings 6 tonight, or whether they're received 7 8 between now and the point where the 9 record closes, again, on August 12th, and 10 regardless of whether they come in through standardized United States Postal 11 12 Service Mail or any of the electronic mechanisms that I just referenced now. 13 14 As long as they are received on or before August 12, 2021, all comments bear 15 exactly the same weight and all will be 16 17 considered equally by Secretary Garvin 18 prior to his making a decision in this 19 matter. 20 The ultimate decision 21 regarding these proposed Regulatory 22 Amendments is made by Secretary Garvin. 23 The formal hearing tonight acts as a 24 mechanism to enable the Department to

```
11
1
      thoroughly vet what we wish to do to the
 2
      public, and also to let the public know
 3
      the various ways by which comment may be
 4
      submitted for the Secretary's
 5
      consideration, if so desired.
 6
                   With that being said, I am
 7
      now going to hand it over to Brett, and
8
      he is going to be offering the
      Department's presentation on this matter.
9
10
                   So, Brett, you may begin
11
      when ready.
12
                   MR. SWAN:
                              Thank you, Lisa.
13
                   My name is Brett Swan. I'm
      the Green Energy Fund Manager for the
14
15
      Department of Natural Resources and
16
      Environmental Control.
17
                   Starting on our agenda,
18
      we've already gone through introductions.
      We're going to go over the Regulation
19
      Promulgation Schedule, the Summary of our
20
21
      Proposed Regulations, Edits to the
22
      Published Proposed Regulations, the Entry
23
      of our Department Exhibits into the
      record and, then, Public Comment.
24
```

		12
1	So, the Regulation	
2	Promulgation Schedule.	
3	The publication of Proposed	
4	Amendments occurred on July 1st of this	
5	year.	
6	Our legal notice was	
7	published on July 4th.	
8	Today is the Public Hearing.	
9	As Lisa mentioned, the	
10	hearing record is going to close on	
11	August 12th.	
12	We anticipate that the Final	
13	Regulations will be published on	
14	November 1st of this year.	
15	And we anticipate the new	
16	Regulations will take effect on	
17	November 11th of this year.	
18	Current Green Energy Program	
19	Regulations were first promulgated back	
20	in 2004 and were last updated back in	
21	2006.	
22	These Regulations regulate	
23	the following Green Energy Fund Programs:	
24	The Green Energy Endowment Program, the	
	1	

13 1 Technology Demonstration Program and the 2 Research and Development Program. Our Proposed Regulations 3 4 will revise outdated and misstated 5 language. 6 For example, renaming the regulations to Regulations for the Green 7 8 Energy Fund instead of Regulations for 9 the Green Energy Program. 10 As well as striking language 11 with outdated grant incentive amounts, we 12 will also be striking overly detailed and 13 prescriptive language. 14 And in the drafting of this 15 proposal, the Department Staff considered input from The Delaware Public Advocate 16 and the Public Service Commission Staff 17 18 who provided valuable technical advice. 19 So now, we will go over the substantive changes per section of the 20 21 Proposed Regulations. 22 In Section 5.0 for the Green 23 Energy Program, we'll be adding statutory language that clarifies our allowable 24

```
14
 1
      expenditures. We'll be striking
 2
      references to outdated grant incentive
 3
      maximums.
 4
                   We'll be adding language to
 5
      allow for the removal of contractors from
      our program's participating contractor's
 6
 7
      list.
 8
                   And we will be striking
 9
      Energy Efficiency Information Programs
      that have not been utilized since the
10
11
      program was created.
12
                   In Section 6.0, the
13
      Technology Demonstration Program, we're
14
      adding statutory language that will
      clarify our allowable expenditures.
15
16
                   And we'll also be adding
17
      language that allows for proposals to be
18
      received on a rolling basis instead of a
      current Request for Proposals, or RFP
19
      process, as they have done now.
20
                   Similar to the last section
21
22
      in Section 7.0, the Research and
23
      Development Program, we're adding
24
      statutory language to clarify allowable
```

15 1 expenditures. And, again, adding 2 language that will allow proposals to be received on a rolling basis instead of 3 4 through the RFP process. 5 We will be including a new section, Section 10.0, the Solar Energy 6 Curriculum Program. This program exists 7 8 currently in the statute; however, it has 9 not existed in the Regulations to date. 10 We are also adding another 11 new section, Section 11.0, entitled Other 12 Eligible Programs. In this section, we 13 add language that will allow the Green 14 Energy Fund to develop new programs that are consistent with the goals of the 15 Fund, subject to the availability of 16 17 funds. 18 Our authority to create these new programs can be found in 19 Chapter 80, Title 29, Section 8057(d). 20 21 Now, we're going to go over 22 some of the edits to the Proposed 23 Regulations that were published on 24 July 1st.

```
16
1
                   In the definition section,
 2
      the definition Conectiv Power Delivery,
      DP&L, currently it is only partially
 3
      struck. Our edit is that we are striking
 4
      -- we would like to strike this
 5
      definition completely.
 6
7
                   In the Definition
8
      Department, under the new language, the
9
      underlined language that says, "Division
10
      of Climate, Coastal and Energy, after the
11
      comma, we would like to insert the word
12
      "or."
13
                   Next edit under Section 5.0
14
      for the Green Energy Program, in Section
      5.4.1, at the very end of the sentence
15
      where the underlined language says, "set
16
      forth in Subsection 5.3.1," we are
17
18
      proposing to change that to, "set forth
      in Subsection 5.3."
19
20
                   In Section 5.5, it reads,
      "The Green Energy Program." To be
21
22
      consistent with the language throughout
23
      the rest of the Regulation, it should
24
      say, "Green Energy Endowment Program."
```

```
17
 1
                   In Section 5.8.1.4, the very
 2
      last sentence reads, currently reads,
      "The installing participating contractor
 3
      is responsible for insuring that the
 4
      system is free from shading." It should
 5
      read, "The installing participating
 6
      contractor is responsible for ensuring
 7
 8
      that the system is free from shading."
 9
                   Under Section 8.0,
10
      Evaluation of Technology Demonstration
11
      and Research and Development
12
      Applications, this is 8.4.1. The very
13
      beginning of the sentence currently
      reads: "If upon, if, on. It should read,
14
      the edit is striking the words "if upon"
15
16
      and adding in the words "if, on."
17
                   Now, we would like to enter
18
      eight exhibits into the record for these
19
      proceedings.
                   The eight exhibits occur on
20
      this slide and also the next slide.
21
22
                   HEARING OFFICER VEST: Thank
23
      you, Brett.
24
                   Just a couple of questions
```

```
18
 1
      for verification, for the record.
 2
                   Are the Department's 8
      Exhibits that are displayed on this and
 3
      the next section the same documents as
 4
 5
      those that are labeled "DNREC Proposed
 6
      Exhibits on the hearing page?
 7
                   MR. SWAN: Yes.
 8
                   HEARING OFFICER VEST: Have
 9
      they been changed or altered in any way
10
      since their posting?
11
                   MR. SWAN: No, they have
12
      not.
13
                   HEARING OFFICER VEST: Okay.
14
     Very good.
                   Let the record reflect that
15
      DNREC Department Exhibits 1 through 8, as
16
      identified just now, are hereby entered
17
18
      into the hearing record that's being
19
      generated in this matter.
20
                   Brett, does the Department
21
      have anything further that they wish to
22
      add for the record at this time?
23
                   MR. SWAN: No, we do not.
24
                   HEARING OFFICER VEST: Thank
```

```
19
 1
      you very much.
 2
                   We are now going to go to
      the comment portion of this hearing.
 3
 4
                   I am just double-checking
      some things. I want to make sure just
 5
      for a second that the court reporter is
 6
 7
      okay.
 8
                   Gloria, I saw that you
 9
      raised your hand. I don't know whether
10
      everything worked out or not, but are we
11
      good? Sascha, you may have to unmute
12
      her.
13
                   COURT REPORTER: Yes.
                                           We
14
      just like to be unmuted for the hearing
15
      in case we have to interrupt.
16
                   HEARING OFFICER VEST:
                                           Sorry
17
      about that. You're unmuted now, and I
18
      will keep you that way.
19
                   So, as you can see on the
20
      screen right now, and thank you, Sascha,
21
      for that, we did have two Members of the
22
      Public go through the preregistration
23
      process pursuant to the protocols on our
24
      web page. They are both from the
```

20

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1
      University of Delaware, as a matter of
 2
      fact. We have Professor Jeremy Firestone
      and Professor Steven Hegedus. Welcome,
 3
 4
      Gentlemen.
 5
                   You will each have three
      minutes to speak. As you can see on the
 6
      screen, there are buckles that will begin
7
8
      to phase out like the hands of a clock as
9
      you begin to speak. The intent with that
10
      is to try to help you pretty much gauge
11
      your speaking speed and your time.
12
                   And as I said in the
13
      beginning, let me please reassure you
14
      that, if, for whatever reason, you do not
      get through everything that you want to
15
      say tonight, you may certainly submit the
16
17
      full context of your comments between now
18
      and August 12th. That is certainly no
      problem. Or if you want to submit
19
      additional comment, you can do whatever
20
21
      you wish.
22
                   But you certainly may submit
23
      everything and all comments that you wish
      for the Secretary to consider prior to
24
```

```
21
 1
      the record closing.
 2
                   So, in no particular order,
      other than the fact that this is the
 3
 4
      order that the Gentlemen signed up in,
      Professor Firestone, you are first up.
 5
 6
                   Can you hear me?
 7
                   PROFESSOR FIRESTONE: Can
8
      you hear me?
 9
                   HEARING OFFICER VEST: I can
10
      hear you. Welcome.
11
                   The timer in the system will
12
      start when you are ready. As I said, if,
      for some reason, you do not get through
13
      everything you want to say and the system
14
      cuts you off, no worries. We can
15
      certainly accept any supplemental or
16
17
      additional comments in writing.
18
                   COURT REPORTER: Could I get
19
      his full name?
20
                   HEARING OFFICER VEST: I'm
21
      sorry. It's Jeremy Firestone.
22
                   PROFESSOR JEREMY FIRESTONE:
23
     My name is Jeremy Firestone. Jeremy,
24
      J-E-R-E-M-Y, Firestone,
```

22 1 F-I-R-E-S-T-O-N-E. I'm a Professor at the University of Delaware in the School 2 of Marine Science and Policy, and the 3 Director of the University Center for 4 Research in Wind. I'm a Social Science 5 Scientist and Lawyer by training. 6 DNREC's mission includes to 7 8 lead energy policy and climate 9 preparedness. The Social Sciences are 10 critical and, indeed, have been 11 addressing the climate crisis moving 12 swiftly. And a just energy transition has to be routed in the Social Sciences. 13 Indeed, while much of the 14 15 focus has placed both its current energy and, here on this regulation, on building 16 17 a better bread box that is technology. 18 The impediments to the energy transition are more social and cultural than they 19 are technological or economic. 20 21 I went through the rules a 22 little bit ago because I had the markup. 23 But the only mention of the words 24 economics or policy in the Regulations

23 1 are with regard to the new solar energy curriculum program. The word 2 technologies or technology appears 34 3 4 times, products nine times, and engineer, 5 engineers or engineering eight. None of the words social 6 culture, cultural justice or equity 7 8 appear at all in the Rule. 9 Now, there is arguably a way 10 through Rule 7.41 and 7.11 that Social 11 Science projects could be seen as 12 improving the adaptation of "products." 13 But please let us bring Social Science research through the front 14 15 door. But even then, given the 16 17 existing language, there are difficulties 18 that remain in 7.4.2 because we're required to show that this "project" is 19 an improvement over existing products 20 21 that provide a similar function. 22 Now, the last time there was 23 a competition, we did have the same 24 issue, and we got DNREC to agree that the

24 1 Rules were broad enough to allow Social 2 Science. But let's do it up front and make it clear that we can bring Social 3 Science to bear on these issues. 4 5 The last thing, and I know Professor Hegedus is going to talk a good 6 7 deal on this, is the cost share 8 requirements, which are a particular 9 difficult problem in the Social Sciences 10 because we don't have industry partners. 11 And, indeed, we don't generally want 12 industry partners because we want our 13 work to appear non-biased. 14 Thank you very much. 15 HEARING OFFICER VEST: Thank 16 you, Professor. As always, your comments 17 are greatly appreciated. We will now switch from 18 Professor Firestone and go to Professor 19 20 Hegedus. 21 Sir, can you hear me? 22 PROFESSOR STEVEN HEGEDUS: 23 Yes, I can hear you. Can you hear me? 24 HEARING OFFICER VEST: I can

25 1 hear you loud and clear, sir. You may 2 proceed when ready. PROFESSOR STEVEN HEGEDUS: 3 4 Thank you. My name is Steven Hegedus. 5 My last name is spelled H-E-G-E-D-U-S. I have been doing solar energy research at 6 the University of Delaware for almost 7 8 40 years at the Institute of Energy 9 Conversion and within the College of 10 Engineering. 11 I think that this Green 12 Energy Fund is a wonderful opportunity to 13 sponsor some exploratory and innovative research here within the State that meets 14 15 the State's particular needs. 16 I would particularly like to address Section 7.2. I understand that 17 18 you need the recipient to demonstrate that they have some skin in the game by 19 providing some cost share. 20 21 Typically, with Department 22 of Energy Programs, this cost share is 23 20 percent. And you are requiring us to 24 come up with 65 percent for research.

26 1 I understand having a high 2 level of cost share for the technology development, Section 6, because that's 3 4 being done by companies. They're 5 probably expecting to develop a profitable product. And companies have a 6 lot more resources available to meet the 7 8 cost share requirements. 9 However, university 10 researchers at nonprofit organizations, 11 it's pretty tough to come up with 12 65 percent cost share for a research 13 project. We have very limited ways that we can adjust or provide free service for 14 15 labor or equipment. So, what I would be asking 16 17 is that you would reconsider that adding 18 a sentence that would make the recipient cost share requirement, for example, 19 20 let's say 25 percent for a nonprofit 21 research organization located within the 22 State. So, that would include colleges, 23 universities, and I don't know what else. 24 But 25 percent cost share is still more

```
27
 1
      than the Department of Energy or the
 2
      National Science Foundation requires. It
      would demonstrate considerable
 3
 4
      commitments from the recipient, but it
      wouldn't be as difficult or challenging
 5
      to meet. And, therefore, I think you
 6
      would get more and higher quality
 7
 8
      proposals.
 9
                   Thank you very much.
10
                   HEARING OFFICER VEST:
11
      Excellent. Thank you, Professor Hegedus.
12
                   As I said before, we only
      had those two Gentlemen as the only
13
      Members of the Public that signed up to
14
15
      offer live comment tonight.
                   With that being said, the
16
      record does absolutely remain open to
17
18
      receive any and all comments that might
      come in between now and August 12th.
19
20
                   Again, it all bears the same
21
      weight regardless of how it comes in, or
22
      when it comes in, or how it comes in, as
23
      long as the Department is in receipt of
24
      it on or before August 12th.
```

28 1 So, with the comment period 2 being done, you will see on the screen 3 that, once again, there are some 4 indications of who to contact, who to send the comments to. And, again, all of 5 this information is located on the DNREC 6 7 hearing web page dedicated to this 8 matter. 9 If you just remember to go 10 to DNREC's website and go to the 11 Administrative Law section, you will see 12 a whole menu there. And you want to go 13 to Public Hearings. And, then, every 14 single hearing that we have had for the past couple of years, we do not retire 15 these pages. We keep the information out 16 17 there. So every single hearing we've had 18 is set there chronologically. So, of 19 course, this one is closer to the top. But you can go there. You 20 21 will be able to review all of the 22 exhibits in detail. 23 Also, any and all comments 24 that come in, we post them as well so the

```
29
      public not only knows what the Department
 1
 2
      is saying, but they also see what other
 3
      commenters are saying. And, of course,
      the two Gentlemen that spoke live this
 4
 5
      evening, their comments will be caught by
      the court reporter's transcript, and they
 6
 7
      will be up there as well.
 8
                   So, again, check it out.
 9
      The public can gain a wealth of
10
      information from the hearing page.
11
                   I want to thank everyone for
12
      attending tonight. Again, the comment
      period remains open through August 12th.
13
14
                   Have a great evening. And
15
      this hearing is adjourned.
16
                   (Public Hearing was
17
      concluded at 6:25 p.m.)
18
19
20
21
22
23
24
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		31
1	State of Delaware:	
2	New Castle County:	
3		
4	CERTIFICATE OF REPORTER	
5		
6	I, Gloria M. D'Amore, Registered	
7	Professional Reporter and Notary Public,	
8	do hereby certify that the foregoing	
9	record, Pages 1 to 31 inclusive, is a	
10	true and accurate transcript of my	
11	stenographic notes taken on Wednesday,	
12	July 28, 2021, in the above-captioned	
13	matter.	
14	IN WITNESS WHEREOF, I have hereunto	
15	set my hand and seal this 2nd day of	
16	August, 2021, at Wilmington, Delaware.	
17		
18		
19	Growa MD'arrore	
20	gaaar Corraga	
21	GLORIA M. D'AMORE, RPR	
22		
23		
24		

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