

JULY 19, 2021 - PUBLIC INFORMATION MEETING - 07-839
BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION
AND DEPARTMENT OF COMMERCE

In the Matter of the Application of Xcel Energy for an
Amendment to the Site Permit for the Grand Meadow Wind
Farm Repower Project in Mower County

MPUC DOCKET NO. IP6646/WS-07-839

Dexter Community Building
107 Main Street South
Dexter, Minnesota

July 19, 2021

COURT REPORTER: Bridget E. Kelly

I N D E X

SPEAKER

PAGE

Michael Kaluzniak

3

Matt Langan

9

David Birkholz

17

Mark Osmundson

23

Ryan Gehling

24

1 MR. MICHAEL KALUZNIAK: Hi. I'm Michael
2 Kaluzniak with the Minnesota Public Utilities
3 Commission. Thanks for coming out tonight. We
4 appreciate it. We're here for the meeting on the
5 Grand Meadow Wind Farm.

6 So we're here for the Grand Meadow Wind
7 Farm Site Permit Amendment Project. The Commission
8 originally issued a site permit for this project a
9 while back, and we're here to look at the permit
10 amendment. I'll be doing an overview of the meeting
11 process itself and talking about how the Commission
12 handles permit-amendment applications. I have to
13 say that this is my first public meeting in about
14 18 months, so I'm pretty rusty and not on top of my
15 game.

16 But anyway, after I finish, I'll turn it
17 over to Matt Langan from Xcel Energy. Matt's
18 helping out at the table over there. Matt is with
19 Xcel. Xcel is the owner of the project now, the
20 applicant for the site-permit amendment. He also
21 has some people here who can help you with your
22 questions. They have maps over here on this side as
23 well, if you want to point out a particular property
24 or ask questions about that.

25 After that time, I'll turn it over to

1 David Birkholz. David's with the Minnesota
2 Department of Commerce, our sister agency that
3 handles environmental review, as well as some of the
4 process pieces for our review, and makes analysis
5 and recommendations to the Commission.

6 And finally, of course we want to hear
7 from you. We'd like your questions, comments,
8 input. We can be very informal here. We can stay
9 afterwards, and I'll talk a bit about that later
10 too.

11 I won't go through this too much. I'm
12 going to upload these slides tomorrow too. I should
13 mention also, as I get started here, we're having a
14 meeting tomorrow as well. It will be basically the
15 same meeting as we're having tonight; however, it
16 will be held online. And that's on our website,
17 which should be on here somewhere, and that will be
18 at 6 p.m. as well.

19 The Commission has responsibility for
20 several things related to energy, electricity,
21 natural gas, and telephone in the State of
22 Minnesota. Part of its responsibilities includes
23 energy-facility permits. I'm within the
24 energy-facility permit unit. I'm a staff person
25 with the Commission, which is composed of five

1 individual members. It's a bipartisan group. They
2 don't make decisions behind closed doors. We have
3 open-meeting laws, and you're certainly welcome to
4 come and see one of our meetings anytime in
5 St. Paul, Minnesota. Our calendars are online.

6 So part of the permits that we handle
7 within the permitting unit, wind farms, pipelines,
8 transmission lines, solar facilities, nuclear
9 energy, and the like, those sort of things. The
10 Commission reviews the full docket that we're
11 developing in this process. We have these open
12 meetings so that we can collect information from the
13 public and certain parties, proponents or opponents,
14 citizens groups, and so forth. We'd like to hear
15 all of your input on that.

16 This is the process that we'll be going
17 through for reviewing the site-permit amendment.
18 The amendment was filed a while back. I think it
19 was in May of this year. In June of -- June 24th,
20 the Department of Commerce filed a draft site permit
21 for comments and recommendations. I have a copy of
22 that here, if you'd like to review it, so you can
23 take it home if you'd like.

24 Basically, a draft site permit doesn't
25 authorize anything. It's just for discussion

1 purposes. So if you have a question about a
2 particular item, say, soil erosion and sediment
3 control, this is not what is being proposed. This
4 is certainly not written in stone. Any of this --
5 any and all of it may be modified by the Commission
6 as they deem appropriate and if they have reason for
7 doing so.

8 After this meeting we'll continue to have
9 a comment period that goes on through August 3rd.
10 Yes, August 3rd, we'll allow comments to be taken.
11 You can give them here tonight. You can write them
12 down. I have information about the public advisor
13 on the table there. This is his business card. If
14 you want to call, get in touch, e-mail, we're happy
15 to help you whichever way is convenient.

16 We'll have our comments sent to David
17 over at the Department of Commerce, and that was
18 included in the project notice. So once those are
19 all collected, the comment period will end. We'll
20 hear from the applicant and the Department of
21 Commerce. I will take all that information and
22 bring it to the Commission for an analysis of
23 everybody's position, and they will make a decision
24 on the matter.

25 This is the tentative schedule. We're

1 here today. Again, tomorrow we'll have another
2 meeting online, which you're welcome to attend as
3 well. The comment period, and if you remember
4 nothing else, again, is August 3rd. After that time
5 we don't accept comments. We anticipate comments
6 from the Department on the 17th of August and about
7 ten days later from the applicant. The Commission
8 will probably make a decision sometime in September
9 or October, in that timeframe.

10 Again, these are the ways you can submit
11 comments: Online, e-mail, U.S. mail. You can even
12 call directly if you have a comment that you need
13 help with, and one of our staff members will do
14 whatever it takes to get your comments and help you
15 get those on the record. The Commission considers
16 all comments equally. It doesn't matter how you
17 comment.

18 These are the types of questions that
19 we're looking for. We're happy to answer any
20 questions you may have about the project itself.
21 What are the changes? How will that affect you as
22 landowners or citizens? What methods can be used to
23 minimize, mitigate, or avoid potential impacts of
24 the project? And are there any unique
25 characteristics that we don't know about?

1 So there was an application filed by Xcel
2 Energy, and that's in front of our case record here.
3 It's on the Department of Commerce's website. You
4 can get there by our e-mail address here, and you
5 can see the full docket record including the
6 applications. Everything that's been filed to the
7 docket; every comment that we've received; the
8 filings from the Department of Commerce, other
9 agencies -- all go through our filing system.

10 And the important thing to note there is
11 the docket number, 07-839, and you can just kind of
12 find that on our website too. If you pull up that
13 docket record on our eDockets system, it will give
14 you that list of each and every docket. There's
15 probably 50 or 60 different dockets so far including
16 the applications and this draft site permit as well,
17 and as I mentioned, I'll put this on there tomorrow
18 too so that that will be available for anybody who
19 cares to look at it.

20 You can also subscribe to the docket if
21 you register on that site, and every time
22 something's filed, you'll receive an e-mail. I get
23 dozens of these a day. It can be a lot of reading.
24 It's kind of annoying if you're trying to do other
25 things, but you're certainly welcome to do that. We

1 encourage you to do it if you want to get every
2 document.

3 Again, my name is Michael Kaluzniak. I'm
4 the staff analyst. Charley Bruce is our public
5 advisor. I left Charley's cards in the back of the
6 room and the front if you want to look at it.
7 Charley is not available. He's normally our public
8 advisor here. He is not available today for
9 questions. So if you have any questions, we will be
10 happy to answer them. And I'm going to turn it over
11 to Matt Langan from Xcel who will talk about the
12 project itself.

13 MR. MATT LANGAN: Okay. Thank you, Mike
14 for that introduction. My name Matt Langan. I'm
15 with Xcel Energy. I work in a group called siting
16 and land rights. We work with our state agencies to
17 secure the approvals needed to build a wind farm or
18 in this case rebuild a wind farm.

19 One important note about all the
20 information that Mike gave you, there was a lot of
21 information of course on the screen there. What we
22 try to do is make sure that we develop a really good
23 landowner mailing list when we start out these
24 projects. We want to capture all the landowners of
25 record within the project area and adjacent to it as

1 well, to a certain extent.

2 And so hopefully, you all received in the
3 mail notice of tonight's meeting, notice of this
4 comment period that Mike is describing. And if you
5 didn't receive that mailed notice, all of that
6 information is in there, every website that you want
7 to check for project information, where to send your
8 comments in, who to call if you have a question.
9 And so I'd refer you to that notice.

10 But I also mention that because if there
11 are folks that you happen to know of in the
12 community that are not receiving these e-mails that
13 should be, please let us know and we can get them
14 onto the project contact list so they can follow
15 along with the review -- the state review process.
16 But otherwise, hopefully, you all received that
17 notice, and if you did not, definitely let us know
18 after the meeting. We'll get you all that
19 information.

20 So we're here tonight to talk about the
21 Grand Meadow Wind Repower Project. The project
22 itself of course has been operational for a number
23 of years since 2008. There are 67 turbines within
24 this particular project that we're talking about.
25 When it was first developed, it was termed the

1 Wapsipinicon Project, Wapsipinicon South if that
2 rings a bell. So now it's called Grand Meadow.
3 It's those 67 turbines south of the interstate.
4 They are 1.5 General Electric -- 1.5-megawatt
5 General Electric turbines. After the repower those
6 will be 1.6-megawatt wind turbines, and we'll talk
7 about how those will increase energy production, how
8 those will run more efficiently all the time once
9 the repower is complete.

10 But first, a little bit about Xcel
11 Energy. We operate in eight different states. We
12 provide electricity to 3.6 million customers and
13 natural gas to 2 million customers. We are a
14 recognized leader in energy efficiency,
15 carbon-emission reductions, storm restoration,
16 innovative technology, and of course wind energy.
17 The wind-energy portfolio is a big part of our
18 future vision that we want to achieve by 2030,
19 80 percent lower carbon emissions when compared to
20 2005 levels on our system. And we've outlined a
21 2050 vision of 100 percent carbon-free electricity,
22 and so that is really -- this is one of the pieces
23 of that legacy and that ability to reach that
24 carbon-free electricity future.

25 So to get to that future, we proposed to

1 the Public Utilities Commission upgrading four of
2 our existing wind farms; that is, Nobles, Pleasant
3 Valley, Grand Meadow, and Border, which is a wind
4 farm in North Dakota. So Grand Meadow is part of
5 that. We proposed to the Commission that this will
6 save customers money. This will increase our energy
7 produced. This will result in additional and
8 longer-term payments to landowners in the area and
9 then help support local governments along the way.

10 And so when we proposed that, that's kind
11 of a first step to the Commission. And they say,
12 okay, that plan looks solid. You can go forward.
13 We're going to approve you to do that. And they did
14 that in December of this year. And the next step is
15 what we're doing here tonight, is to look at how to
16 build this within state standards to reduce impacts
17 to the extent possible and to meet all of the
18 permitting objectives from the Public Utilities
19 Commission.

20 So to the project itself, again, built
21 and operational in 2008, 67 turbines within the
22 project area. After the repower the proposal is to
23 still have 67 turbines, still have them in the same
24 locations. No turbines are moving at all. They'll
25 be in the exact same locations. They will be just

1 retrofit with different blades, a different hub --
2 excuse me -- different blades and some different
3 components within the nacelle. And we'll talk about
4 that in a slide or two here. We are also proposing
5 to develop an aircraft-detection lighting system.
6 So instead of the constant red light on top of the
7 towers, those will only turn on when the aircraft
8 are coming through the area. So that's part of the
9 proposal here today too.

10 Okay. So here's the details around the
11 repower. You can see the different components of
12 the turbine where you've got the foundation; the
13 down turbine assembly; and the tower; the nacelle,
14 which is this piece right here at the top of the
15 tower; the hub, which attaches the blades; and then
16 the blades themselves.

17 Currently, those blades are -- there's a
18 77-meter rotor diameter to those blades. So
19 basically, that is 33 1/2 -- excuse me, that's wrong
20 -- 37 1/2 meters per blade, and we are going to
21 increase that rotor diameter to 97 meters. So each
22 blade, if you think about it that way, is about 10
23 meters longer, about 35 feet longer than the
24 existing blades. Hub height stays the same. That's
25 80 meters tall. Foundation stays in place, some

1 components changed out within the cell. And that is
2 the proposal.

3 Now, there are 52 of the -- 52 of the 67
4 turbines will get the 97-meter blade -- rotor
5 diameter blades. There will be 15 of the 67
6 turbines that will just have the 91-meter rotor
7 diameter, okay, so that increase will just be 14
8 meters. Overall, the 7 meters per blade, about 20,
9 25 feet longer blades. So those are the components
10 that would be replaced as part of the repower.

11 So the construction, in order for that to
12 happen, our proposal is that construction would take
13 about six to eight months to retrofit or to repower
14 each of the 67 turbines. That's in the second
15 quarter. The proposal is second quarter of 2023
16 right to the end of 2023, December of the year 2023.

17 We replace the components in the air by
18 moving a crane from turbine to turbine. One of the
19 things that we definitely hear from people is their
20 concerns around soil compaction and tile lines out
21 in the fields. What we've found to be a useful
22 mitigation for both instances is to lay down
23 construction matting all along the path from turbine
24 to turbine as we walk the cranes from turbine to
25 turbine. And so that's what we've proposed as part

1 of our application to the state here, is that we'll
2 use construction matting wherever we drive a crane
3 for the project during those six to eight months.

4 Workspace at each location, of course
5 we'll have to place components -- new turbine
6 components near the foundations and then take down
7 the old blades and hub and replace with new. The
8 area around each turbine is estimated to be about a
9 400-foot radius. That will be in the temporary
10 workspace around each turbine.

11 What we would like to hear is if there is
12 any concerns that -- if you host a turbine on your
13 land and you're concerned that a 400-foot radius
14 might impact a parcel of your land, a piece of your
15 land, and that would be problematic, we'd like to
16 hear about that and see if we can make arrangements
17 to adjust and reduce or eliminate any impacts at
18 those parcels. But right now for what we've
19 supplied to the state, it will be a 400-foot radius
20 around each turbine, and we'll need a temporary
21 workspace during those six to eight months. We also
22 will do some local road improvements if necessary.

23 We're going to enter into a road-use
24 agreement with the county and townships where the
25 project exists to make sure that we're using the

1 public roads properly; we understand traffic-flow
2 patterns; we understand where improvements might
3 need to be made; and are certainly set up for any
4 kind of restoration work that the company would be
5 responsible for after construction is complete. So
6 again, that will be a road-use agreement working
7 with the townships and county.

8 And at Xcel we have project information
9 up on our project-specific website on our -- online
10 for our website. We have an e-mail that you can
11 send directly to us if you have questions or
12 concerns or just want to talk about the project, and
13 then we've got a phone number also that you can call
14 into. Very likely if you call into that number,
15 you'll be leaving a message and a representative
16 will be getting back to you within about 24 hours or
17 less to answer your question or to give you a call
18 back.

19 I know there's a lot of e-mails and phone
20 numbers and websites to keep track of, but I want
21 folks to make sure that they have this information
22 -- if you've got a note, a pen and a paper -- to
23 take us up on this, because these aren't only up and
24 operational while we're doing this permitting
25 process with the state, but rather this will be up

1 for -- throughout the process and beyond during
2 construction. So if you want to get in touch with
3 us, this is the best way to do that specific to the
4 Grand Meadow project. Did everybody get a chance to
5 jot that down if they wanted to? Okay.

6 And with that, I think that is what I
7 wanted to say for this piece. I'm going to ask
8 David to come up and talk about the Department of
9 Commerce's review, but we'll be available for
10 questions obviously after David's presentation as
11 well. Thank you.

12 MR. DAVID BIRKHOLZ: Good evening. Nice
13 to see you all. I may have met some of you if you
14 were out here in 2007 or 2008 because I did work on
15 the original project and did the environmental
16 review for the whole Wapsipinicon Project.
17 Interestingly enough, at least for me, is that these
18 repowering projects are a practical and sensible
19 idea for us when we look at it from an environmental
20 and economic review. We don't have to break new
21 ground. We don't have to change for instance --
22 well, let me -- let me introduce myself. I did this
23 incorrectly for the court reporter. When I ask you
24 -- when you ask your questions or make your
25 comments, I'm going to ask you to present your name

1 and spell it to the court reporter. So it's David
2 Birkholz, B-I-R-K-H-O-L-Z, with the Department of
3 Commerce.

4 All right. I'm back. We did a -- we did
5 a meeting out at Grand Meadow, at least a couple of
6 them. There were several because there was a
7 certificate of need. These are not changing.
8 There's no certificate of need necessary. And
9 what's the name of the little town that's south? It
10 starts with an E.

11 AUDIENCE MEMBER: Elkton.

12 MR. DAVID BIRKHOLZ: That's it. That was
13 -- that was back when I was just a kid. The
14 difference here is that everything stays put. So
15 when we first conceive of repowering projects, you
16 know, what -- that's all we know. That much we
17 know, and what else do we need to know in order to
18 make a change this big? Well, it's -- it's 10, 12
19 years later, and there are a lot of things to
20 change.

21 So what we've done is basically asked for
22 a whole new application. The process is speeded up
23 because some decisions are more straightforward
24 about the application and the data we wanted. We
25 wanted to know everything that's changed since the

1 original project. So there are new bird studies.
2 There's new studies for all sorts of DNR issues.
3 There's new studies for noise monitoring and
4 modeling. And so those all take place.

5 The variance is always an issue because
6 it's -- they are staying in the same place, the
7 turbines, but they're longer. That means to make
8 that 3 by 5, sometimes that's going to go beyond
9 what the company has in their contractual agreement
10 with them. I was on this project before Xcel was
11 actually. We don't advocate for projects, but I've
12 just been working on it. Xcel, at the end of the
13 building permit, took over control of the Grand
14 Meadow Wind Farm and has been operating it ever
15 since.

16 Matt told you a lot about the things that
17 are changing. The lighting's changing. The noise
18 has been modeled and should be -- it should not be
19 more, and it will be less than the noise that's
20 currently out there. That's the way it's designed,
21 and that's the way it's been modeled. We will do,
22 after the fact, as we did the first time,
23 post-construction monitoring of the noise. There's
24 monitoring ahead of time. There's monitoring
25 afterwards. So we will test out how that monitoring

1 works out. And Matt discussed about the
2 aircraft-detection lighting. I'm sure anyone who's
3 ever noticed, if you're driving down 90, that's one
4 really distracting thing to see, is lights coming on
5 and off for as far as you can see into the distance.
6 So this is a good -- this is a good move, and the
7 Commission's been requiring some kind of light
8 mitigation in all of its new permits.

9 These are available. I just mentioned
10 them because you should know that they're available
11 to go look at. They came in along with the
12 application. There's a new bird and bat
13 conservation strategy, and that's updated regularly.
14 And then there's an updated decommissioning plan
15 that comes with this. That will be reviewed
16 continually. We anticipate in five years, come back
17 and look at it, see if it's funded, see if it's --
18 see if it's going to make sure that nothing is left
19 behind.

20 Now, we do have a draft site permit. It
21 is online already for you to read. It's filed in
22 the eDockets, 07-839, under EERA comments and draft
23 site permitting, so. That is the real number that
24 you need to write down, 07-839. The contact numbers
25 are fine, but if you know that number and docket,

1 you can find everything because the account of the
2 discussion tonight will be online.

3 The draft permit is online, and I think
4 it's really important that you go and look at that
5 because I took the old permit from back in 2008 when
6 it was issued and updated it to standards of all the
7 permits that the Commission is issuing now. So a
8 lot has changed, you'd be surprised, in the last
9 several years. And also, take a look at what are
10 specific things that should be in this particular
11 permit. For you to make your comments -- you can
12 make comments on anything or questions on anything,
13 but it will help to go online and look at these
14 documents because it will help you see actually what
15 is being proposed and what the state is proposing to
16 allow.

17 When you go on that other website, you
18 don't need to write these numbers down because
19 they'll be there as well, because when this is done,
20 these web presentations will be posted on the
21 eDockets page as well. You can use this link to go
22 to the documents that I'm talking about that the
23 Department of Commerce has posted on there as well.
24 So we'll make it as easy for you to get to the meat
25 of the matter as possible.

1 Okay. Now we're going to get to the meat
2 of the matter of why we're here. Again, these are
3 the questions the Commission is going to be asking.
4 So if you have questions or comments on these items,
5 this is the kinds of things that they're going to
6 have to know to make an educated decision. Are
7 there additional human or environmental impacts that
8 aren't in those papers? Are there additional
9 impacts that are changing with the project changing,
10 or are there just issues that you think have just
11 been forgotten about or need to be addressed more
12 thoroughly? Those kinds of comments are great.

13 You know, you can comment here tonight,
14 or you can comment online, or you can comment by
15 sending an e-mail or letter or whatever you'd like.
16 After you've looked at that draft permit, consider
17 more what kind of permit conditions should be added,
18 and then of course you can make your own -- you can
19 make your own opinion on whether the Commission
20 should move ahead and okay this project. Repowering
21 basically improves the efficiency of energy
22 production. It improves the economics for the area
23 and for the company, but that doesn't mean the
24 Commission or the Department think it's an automatic
25 or a free ride. Ask the questions, or you might

1 begin to imagine that perhaps you might have
2 forgotten something.

3 So that's enough of us. I'm going to ask
4 you again when you come up -- well, I'm going to ask
5 you first to come up because otherwise we won't hear
6 you in the back and the court reporter won't hear.
7 So I'm going to ask you to come up. I'll give you
8 the mic before you speak. State your name for the
9 reporter. We always put up a slide like this.
10 Limit your comments to a few minutes, and if there's
11 time at the end, you can come back. But this is a
12 pretty small group, so I think we have time to be
13 here to hear everything that everybody wants to say.

14 With that, I will just try to bring you
15 the mic as close as I can, so you may have to stand
16 when you comment. So please, who would like to be
17 the first to comment?

18 MR. MARK OSMUNDSON: I don't need to come
19 up there. They can hear me. I got a question for
20 you.

21 MR. MATT LANGAN: Okay.

22 MR. MARK OSMUNDSON: You're the owner of
23 the project. White just got done -- Oh, Mark
24 Osmundson. I didn't say that. So they just got
25 done down there. There's garbage all over the

1 place, in the ditches. Oh, O-S-M-U-N-D-S-O-N.
2 There's garbage -- there was trash all over the
3 ditches. Ask him about his field. All over in the
4 field, they tried to bury trash. The digger goes
5 through, brings up cups of trash that they tried to
6 bury, and it just pissed me off that it was all
7 there, and it's still all there except your field.
8 Yeah, but, I mean, they just left them there. They
9 totally left a stinking mess.

10 MR. MATT LANGAN: Loud and clear. Thanks
11 for letting us know that.

12 MR. DAVID BIRKHOLZ: There is a system
13 with an existing permit and the new one, and when
14 you're online, you can check that. It's correct
15 when you run into a problem to bring it to the
16 company, and if the company corrects it, great. If
17 the company doesn't correct it, then there's a
18 process that we can continue and follow up on so
19 it's good.

20 MR. MARK OSMUNDSON: Your Commission has
21 the -- their permit too.

22 MR. RYAN GEHLING: My name is Ryan
23 Gehling, G-E-H-L-I-N-G. Part of what Mark was
24 talking about, White Wind did leave one terrific
25 mess. Right now we're in negotiations -- we're in

1 negotiations on that reparation for the mess they
2 left behind. They worked on my tower -- I believe
3 they finished it on November 17th through the 20th.
4 They turned my property into a secondary staging
5 site beyond where they initially placed material.
6 It was brought to their attention, and right now
7 we're having conversations about their mistakes.
8 But Mark is right 100 percent. We had garbage
9 blowing across the river 20 acres. We've been
10 picking it up.

11 MR. MARK OSMUNDSON: Everywhere.

12 MR. RYAN GEHLING: But I have also been
13 visiting with WSB, I think it is, and I've brought
14 that to their attention. And they're well aware of
15 the mistakes made down there, and you can bring your
16 concerns to WBS or Xcel. They listen. The problem
17 with White and NextEra is I haven't seen the drunks
18 on Saturday night have as much fun at making a mess.
19 But anyhow, Xcel, I've been visiting with them quite
20 a bit, and they've seemed very responsive. And
21 we'll see if they follow through with what they've
22 promised. So I have -- everybody knows where
23 they're at. Minnesota nice went out the door with
24 White construction.

25 And I'm also curious on -- you said some

1 of the turbines are gonna have 7-foot blades and
2 some were longer. What's the reason for that?

3 MR. MATT LANGAN: First of all, thank you
4 for the last comments. That's the type of thing
5 that we take really seriously, and I can just say
6 that in front of you now, but we're just going to
7 follow up and demonstrate that we won't leave a site
8 looking like that. David's right. We have an
9 obligation for cleanup. That's spelled out in the
10 permit that the Commission gives us, and so we take
11 -- whether that were in the permit or not, we would
12 want a site to look responsible and cleaned up for
13 the community. So thank you for the comments.
14 That's reenforcement for us and our team to pay
15 attention to what happens after construction. So
16 thank you both for the comments.

17 In terms of the blade length, so the
18 current 00 so we always talk about rotor diameter,
19 and so right now the rotor diameter of the existing
20 wind farm is 77 meters in diameter. So the -- so
21 they will move some to 97 meters, some to 91. The
22 91-meter rotor diameters are a little more quiet
23 than the 97-meter rotor diameters. So what we're
24 finding -- what we're doing there with those 15
25 turbines is making sure that those are in compliance

1 with the state noise standard as we model it and as
2 we will be monitored after the construction is
3 complete. So it's to achieve that noise standard
4 and make sure we're in compliance at all times of
5 day with the state noise standard.

6 MR. RYAN GEHLING: Where's the
7 aircraft-detection system gonna be located?

8 MR. MATT LANGAN: So that requires a
9 power or perhaps more than one.

10 MR. RYAN GEHLING: I've got the original
11 on my property on this last project, so I know what
12 it is. Just curious on locations.

13 MR. MATT LANGAN: Sure. I'm going to ask
14 one of my teammates here if we have identified a
15 location for that or if we are still looking. Still
16 looking for the location for that, but diligently
17 looking for that. That's something that we're
18 trying to implement with each one of our projects
19 that we're developing.

20 MR. RYAN GEHLING: I think I'm good.

21 MR. DAVID BIRKHOLZ: Thanks, Matt. Like
22 I said, we have a fairly small number, so you can
23 have all the time you want to speak. Again, we're
24 interested in your comments and on the details of
25 the permit 'cause that's where the -- that's where

1 it hits the road basically. It's what's going to be
2 done exactly and how are the mechanics going to be
3 enforced and how are we going to turn this into a
4 successful project if it's approved. That usually
5 only happens best when we have a lot of public
6 participation in the entire project. Mike and I
7 have been out here more than once for the project,
8 but we don't live out here, so we're happy to hear
9 from you.

10 Well, I'm not going to force anybody to
11 come here, but I don't want to -- I don't want to
12 dash into town and dash out either, so keep thinking
13 if you want to speak. But again, the Commission and
14 myself and the company will all be hanging around
15 here if you want to talk individually. The
16 important part is to keep tabs on the commenting
17 because to keep the project process turning, there
18 has to be an end date to the comments so that we can
19 get them to the Commission and they can make a good
20 decision. We're happy to hear from you at any time
21 tonight, tomorrow. Go online to see what we put
22 there. It's all there in black and white. I don't
23 think I'm cutting anybody off here. I'm not going
24 to force you, but we are here. Speak with us.

25 Appreciate you coming out. Hope this was

1 helpful. Hope this encourages you to keep
2 participating in the project.

3 MR. MICHAEL KALUZNIAK: All right. As
4 David mentioned we'll be here tearing down for a
5 little bit, so if you have any questions or want to
6 talk to us, let us know. Again, we have a copy of
7 the draft site permit here. We encourage you to
8 look at that, especially if you have questions about
9 cleanup. For example there's a provision in here
10 that requires weekly updates -- or routinely --
11 monthly updates on complaints received, and those
12 are tracked, and we do reach every one of those and
13 make sure that they are resolved. We have a process
14 for resolving unresolved complaints as well. So
15 bear that in mind. But I think that generally the
16 approach that seems to work best for people is to
17 simply contact the applicant because maybe they
18 didn't realize that they were required to do this
19 under the permit.

20 So we encourage you to look at the draft
21 site permit online and any other information. Our
22 website address is on Charley's cards here. You can
23 go through our calendar and find this presentation,
24 the meeting notice, links to the docket itself with
25 all the information and applications. And we do

1 appreciate you coming out here, and if you have any
2 other questions, feel free to stick around. If you
3 have any more questions now, it will be last call.

4 Well, thank you very much for being here.
5 We do appreciate it. Thanks. Good night.

6 (Meeting concluded at 6:50 p.m.)
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

	3:7,10,20;5:17,18	back (11) 3:9;5:18;9:5;16:16, 18;18:4,13;20:16; 21:5;23:6,11	19:13	changes (1) 7:21
A	analysis (2) 4:4;6:22	basically (6) 4:14;5:24;13:19; 18:21;22:21;28:1	built (1) 12:20	changing (5) 18:7;19:17,17;22:9, 9
ability (1) 11:23	analyst (1) 9:4	bat (1) 20:12	bury (2) 24:4,6	characteristics (1) 7:25
accept (1) 7:5	annoying (1) 8:24	bear (1) 29:15	business (1) 6:13	Charley (2) 9:4,7
account (1) 21:1	anticipate (2) 7:5;20:16	begin (1) 23:1	C	Charley's (2) 9:5;29:22
achieve (2) 11:18;27:3	applicant (4) 3:20;6:20;7:7; 29:17	behind (3) 5:2;20:19;25:2	calendar (1) 29:23	check (2) 10:7;24:14
acres (1) 25:9	application (5) 8:1;15:1;18:22,24; 20:12	bell (1) 11:2	calendars (1) 5:5	citizens (2) 5:14;7:22
across (1) 25:9	applications (4) 3:12;8:6,16;29:25	best (3) 17:3;28:5;29:16	call (7) 6:14;7:12;10:8; 16:13,14,17;30:3	cleaned (1) 26:12
actually (2) 19:11;21:14	appreciate (4) 3:4;28:25;30:1,5	beyond (3) 17:1;19:8;25:5	called (2) 9:15;11:2	cleanup (2) 26:9;29:9
added (1) 22:17	approach (1) 29:16	big (2) 11:17;18:18	came (1) 20:11	clear (1) 24:10
additional (3) 12:7;22:7,8	appropriate (1) 6:6	bipartisan (1) 5:1	can (42) 3:21;4:8,8;5:12,22; 6:11,11;7:10,11,22; 8:4,5,11,20,23;10:13, 14;12:12;13:11; 15:16;16:10,13;20:5; 21:1,11,21;22:13,14, 14,18,18;23:11,15,19; 24:14,18;25:15;26:5; 27:22;28:18,19;29:22	close (1) 23:15
address (2) 8:4;29:22	approvals (1) 9:17	bird (2) 19:1;20:12	capture (1) 9:24	closed (1) 5:2
addressed (1) 22:11	approve (1) 12:13	Birkholz (6) 4:1;17:12;18:2,12; 24:12;27:21	carbon (1) 11:19	collect (1) 5:12
adjacent (1) 9:25	approved (1) 28:4	B-I-R-K-H-O-L-Z (1) 18:2	carbon-emission (1) 11:15	collected (1) 6:19
adjust (1) 15:17	area (6) 9:25;12:8,22;13:8; 15:8;22:22	bit (4) 4:9;11:10;25:20; 29:5	carbon-free (2) 11:21,24	coming (5) 3:3;13:8;20:4; 28:25;30:1
advisor (3) 6:12;9:5,8	around (7) 13:10;14:20;15:8, 10,20;28:14;30:2	black (1) 28:22	card (1) 6:13	comment (12) 6:9,19;7:3,12,17; 8:7;10:4;22:13,14,14; 23:16,17
advocate (1) 19:11	arrangements (1) 15:16	blade (5) 13:20,22;14:4,8; 26:17	cards (2) 9:5;29:22	commenting (1) 28:16
affect (1) 7:21	assembly (1) 13:13	blades (11) 13:1,2,15,16,17,18, 24;14:5,9;15:7;26:1	cares (1) 8:19	comments (22) 4:7;5:21;6:10,16; 7:5,5,11,14,16;10:8; 17:25;20:22;21:11, 12;22:4,12;23:10; 26:4,13,16;27:24; 28:18
afterwards (2) 4:9;19:25	attend (1) 7:2	blowing (1) 25:9	case (2) 8:2;9:18	Commerce (7) 4:2;5:20;6:17,21; 8:8;18:3;21:23
Again (11) 7:1,4,10;9:3;12:20; 16:6;22:2;23:4;27:23; 28:13;29:6	attention (3) 25:6,14;26:15	Border (1) 12:3	cause (1) 27:25	Commerce's (2) 8:3;17:9
agencies (2) 8:9;9:16	AUDIENCE (1) 18:11	both (2) 14:22;26:16	cell (1) 14:1	Commission (23) 3:3,7,11;4:5,19,25; 5:10;6:5,22;7:7,15; 12:1,5,11,19;21:7; 22:3,19,24;24:20; 26:10;28:13,19
agency (1) 4:2	August (4) 6:9,10;7:4,6	break (1) 17:20	certain (2) 5:13;10:1	Commission's (1) 20:7
agreement (3) 15:24;16:6;19:9	authorize (1) 5:25	bring (4) 6:22;23:14;24:15; 25:15	certainly (4) 5:3;6:4;8:25;16:3	community (2) 10:12;26:13
ahead (2) 19:24;22:20	automatic (1) 22:24	brings (1) 24:5	certificate (2) 18:7,8	compaction (1) 14:20
air (1) 14:17	available (6) 8:18;9:7,8;17:9; 20:9,10	brought (2) 25:6,13	chance (1) 17:4	company (7)
aircraft (1) 13:7	avoid (1) 7:23	Bruce (1) 9:4	change (3) 17:21;18:18,20	
aircraft-detection (3) 13:5;20:2;27:7	aware (1) 25:14	build (2) 9:17;12:16	changed (3) 14:1;18:25;21:8	
allow (2) 6:10;21:16	B	building (1)		
along (4) 10:15;12:9;14:23; 20:11				
always (3) 19:5;23:9;26:18				
Amendment (5)				

16:4;19:9;22:23; 24:16,16,17;28:14 compared (1) 11:19 complaints (2) 29:11,14 complete (3) 11:9;16:5;27:3 compliance (2) 26:25;27:4 components (7) 13:3,11;14:1,9,17; 15:5,6 composed (1) 4:25 conceive (1) 18:15 concerned (1) 15:13 concerns (4) 14:20;15:12;16:12; 25:16 concluded (1) 30:6 conditions (1) 22:17 conservation (1) 20:13 consider (1) 22:16 considers (1) 7:15 constant (1) 13:6 construction (9) 14:11,12,23;15:2; 16:5;17:2;25:24; 26:15;27:2 contact (3) 10:14;20:24;29:17 continually (1) 20:16 continue (2) 6:8;24:18 contractual (1) 19:9 control (2) 6:3;19:13 convenient (1) 6:15 conversations (1) 25:7 copy (2) 5:21;29:6 corrects (1) 24:16 county (2) 15:24;16:7 couple (1) 18:5 course (6) 4:6;9:21;10:22; 11:16;15:4;22:18	court (3) 17:23;18:1;23:6 crane (2) 14:18;15:2 cranes (1) 14:24 cups (1) 24:5 curious (2) 25:25;27:12 current (1) 26:18 Currently (2) 13:17;19:20 customers (3) 11:12,13;12:6 cutting (1) 28:23	13:10;27:24 develop (2) 9:22;13:5 developed (1) 10:25 developing (2) 5:11;27:19 diameter (7) 13:18,21;14:5,7; 26:18,19,20 diameters (2) 26:22,23 difference (1) 18:14 different (7) 8:15;11:11;13:1,1, 2,2,11 digger (1) 24:4 diligently (1) 27:16 directly (2) 7:12;16:11 discussed (1) 20:1 discussion (2) 5:25;21:2 distance (1) 20:5 distracting (1) 20:4 ditches (2) 24:1,3 DNR (1) 19:2 docket (9) 5:10;8:5,7,11,13,14, 20:20;25:29;24 dockets (1) 8:15 document (1) 9:2 documents (2) 21:14,22 done (5) 18:21;21:19;23:23, 25;28:2 door (1) 25:23 doors (1) 5:2 down (11) 6:12;13:13;14:22; 15:6;17:5;20:3,24; 21:18;23:25;25:15; 29:4 dozens (1) 8:23 draft (9) 5:20,24;8:16;20:20, 22;21:3;22:16;29:7, 20 drive (1)	15:2 driving (1) 20:3 drunks (1) 25:17 during (3) 15:3,21;17:1	enough (2) 17:17;23:3 enter (1) 15:23 entire (1) 28:6 environmental (4) 4:3;17:15,19;22:7 equally (1) 7:16 erosion (1) 6:2 especially (1) 29:8 estimated (1) 15:8 even (1) 7:11 evening (1) 17:12 everybody (3) 17:4;23:13;25:22 everybody's (1) 6:23 Everywhere (1) 25:11 exact (1) 12:25 exactly (1) 28:2 example (1) 29:9 except (1) 24:7 excuse (2) 13:2,19 existing (4) 12:2;13:24;24:13; 26:19 exists (1) 15:25 extent (2) 10:1;12:17
	D		E	
	Dakota (1) 12:4 dash (2) 28:12,12 data (1) 18:24 date (1) 28:18 David (9) 4:1;6:16;17:8,12; 18:1,12;24:12;27:21; 29:4 David's (3) 4:1;17:10;26:8 day (2) 8:23;27:5 days (1) 7:7 December (2) 12:14;14:16 decision (4) 6:23;7:8;22:6; 28:20 decisions (2) 5:2;18:23 decommissioning (1) 20:14 deem (1) 6:6 definitely (2) 10:17;14:19 demonstrate (1) 26:7 Department (11) 4:2;5:20;6:17,20; 7:6;8:3,8;17:8;18:2; 21:23;22:24 describing (1) 10:4 designed (1) 19:20 details (2)		easy (1) 21:24 economic (1) 17:20 economics (1) 22:22 eDockets (3) 8:13;20:22;21:21 educated (1) 22:6 EERA (1) 20:22 efficiency (2) 11:14;22:21 efficiently (1) 11:8 eight (4) 11:11;14:13;15:3, 21 either (1) 28:12 Electric (2) 11:4,5 electricity (4) 4:20;11:12,21,24 eliminate (1) 15:17 Elkton (1) 18:11 else (2) 7:4;18:17 e-mail (6) 6:14;7:11;8:4,22; 16:10;22:15 e-mails (2) 10:12;16:19 emissions (1) 11:19 encourage (3) 9:1;29:7,20 encourages (1) 29:1 end (5) 6:19;14:16;19:12; 23:11;28:18 Energy (11) 3:17;4:20;5:9;8:2; 9:15;11:7,11,14,16; 12:6;22:21 energy-facility (2) 4:23,24 enforced (1) 28:3	
				F
				facilities (1) 5:8 fact (1) 19:22 fairly (1) 27:22 far (2) 8:15;20:5 Farm (7) 3:5,7;9:17,18;12:4; 19:14;26:20 farms (2) 5:7;12:2 feel (1) 30:2 feet (2) 13:23;14:9

few (1) 23:10 field (3) 24:3,4,7 fields (1) 14:21 filed (6) 5:18,20;8:1,6,22; 20:21 filing (1) 8:9 filings (1) 8:8 finally (1) 4:6 find (3) 8:12;21:1;29:23 finding (1) 26:24 fine (1) 20:25 finish (1) 3:16 finished (1) 25:3 first (9) 3:13;10:25;11:10; 12:11;18:15;19:22; 23:5,17;26:3 five (2) 4:25;20:16 folks (2) 10:11;16:21 follow (4) 10:14;24:18;25:21; 26:7 force (2) 28:10,24 forgotten (2) 22:11;23:2 forth (1) 5:14 forward (1) 12:12 found (1) 14:21 foundation (2) 13:12,25 foundations (1) 15:6 four (1) 12:1 free (2) 22:25;30:2 front (3) 8:2;9:6;26:6 full (2) 5:10;8:5 fun (1) 25:18 funded (1) 20:17 future (3)	11:18,24,25	14:19;15:11,16;23:5, 6,13,19;28:8,20 height (1) 13:24 held (1) 4:16 help (7) 3:21;6:15;7:13,14; 12:9;21:13,14 helpful (1) 29:1 helping (1) 3:18 here's (1) 13:10 Hi (1) 3:1 hits (1) 28:1 home (1) 5:23 Hope (2) 28:25;29:1 hopefully (2) 10:2,16 host (1) 15:12 hours (1) 16:16 hub (4) 13:1,15,24;15:7 human (1) 22:7	17:23 increase (4) 11:7;12:6;13:21; 14:7 individual (1) 5:1 individually (1) 28:15 informal (1) 4:8 information (12) 5:12;6:12,21;9:20, 21;10:6,7,19;16:8,21; 29:21,25 initially (1) 25:5 innovative (1) 11:16 input (2) 4:8;5:15 instance (1) 17:21 instances (1) 14:22 instead (1) 13:6 interested (1) 27:24 Interestingly (1) 17:17 interstate (1) 11:3 into (8) 15:23;16:14,14; 20:5;24:15;25:4;28:3, 12 introduce (1) 17:22 introduction (1) 9:14 issue (1) 19:5 issued (2) 3:8;21:6 issues (2) 19:2;22:10 issuing (1) 21:7 item (1) 6:2 items (1) 22:4	3:1,2;9:3;29:3 keep (5) 16:20;28:12,16,17; 29:1 kid (1) 18:13 kind (6) 8:11,24;12:10;16:4; 20:7;22:17 kinds (2) 22:5,12 knows (1) 25:22	
	G	game (1) 3:15 garbage (3) 23:25;24:2;25:8 gas (2) 4:21;11:13 gave (1) 9:20 GEHLING (6) 24:22,23;25:12; 27:6,10,20 G-E-H-L-I-N-G (1) 24:23 General (2) 11:4,5 generally (1) 29:15 gives (1) 26:10 goes (2) 6:9;24:4 gonna (2) 26:1;27:7 good (8) 9:22;17:12;20:6,6; 24:19;27:20;28:19; 30:5 governments (1) 12:9 Grand (9) 3:5,6;10:21;11:2; 12:3,4;17:4;18:5; 19:13 great (2) 22:12;24:16 ground (1) 17:21 group (3) 5:1;9:15;23:12 groups (1) 5:14	I		L
		H	idea (1) 17:19 identified (1) 27:14 imagine (1) 23:1 impact (1) 15:14 impacts (5) 7:23;12:16;15:17; 22:7,9 implement (1) 27:18 important (4) 8:10;9:19;21:4; 28:16 improvements (2) 15:22;16:2 improves (2) 22:21,22 included (1) 6:18 includes (1) 4:22 including (2) 8:5,15 incorrectly (1)	J	
				K	
			KALUZNIAK (4)		

19:17 lights (1) 20:4 likely (1) 16:14 Limit (1) 23:10 lines (2) 5:8;14:20 link (1) 21:21 links (1) 29:24 list (3) 8:14;9:23;10:14 listen (1) 25:16 little (4) 11:10;18:9;26:22; 29:5 live (1) 28:8 local (2) 12:9;15:22 located (1) 27:7 location (3) 15:4;27:15,16 locations (3) 12:24,25;27:12 longer (5) 13:23,23;14:9;19:7; 26:2 longer-term (1) 12:8 look (13) 3:9;8:19;9:6;12:15; 17:19;20:11,17;21:4, 9,13;26:12;29:8,20 looked (1) 22:16 looking (5) 7:19;26:8;27:15,16, 17 looks (1) 12:12 lot (7) 8:23;9:20;16:19; 18:19;19:16;21:8; 28:5 Loud (1) 24:10 lower (1) 11:19	makes (1) 4:4 making (2) 25:18;26:25 maps (1) 3:22 MARK (7) 23:18,22,23;24:20, 23;25:8,11 material (1) 25:5 Matt (13) 3:17,18;9:11,13,14; 19:16;20:1;23:21; 24:10;26:3;27:8,13, 21 matter (4) 6:24;7:16;21:25; 22:2 matting (2) 14:23;15:2 Matt's (1) 3:17 May (5) 5:19;6:5;7:20; 17:13;23:15 maybe (1) 29:17 Meadow (9) 3:5,6;10:21;11:2; 12:3,4;17:4;18:5; 19:14 mean (2) 22:23;24:8 means (1) 19:7 meat (2) 21:24;22:1 mechanics (1) 28:2 meet (1) 12:17 meeting (12) 3:4,10,13;4:14,15; 6:8;7:2;10:3,18;18:5; 29:24;30:6 meetings (2) 5:4,12 MEMBER (1) 18:11 members (2) 5:1;7:13 mention (2) 4:13;10:10 mentioned (3) 8:17;20:9;29:4 mess (4) 24:9,25;25:1,18 message (1) 16:15 met (1) 17:13 meters (8)	13:20,21,23,25; 14:8,8;26:20,21 methods (1) 7:22 mic (2) 23:8,15 MICHAEL (4) 3:1,1;9:3;29:3 might (4) 15:14;16:2;22:25; 23:1 Mike (4) 9:13,20;10:4;28:6 million (2) 11:12,13 mind (1) 29:15 minimize (1) 7:23 Minnesota (5) 3:2,4;1,22;5:5; 25:23 minutes (1) 23:10 mistakes (2) 25:7,15 mitigate (1) 7:23 mitigation (2) 14:22;20:8 model (1) 27:1 modeled (2) 19:18,21 modeling (1) 19:4 modified (1) 6:5 money (1) 12:6 monitored (1) 27:2 monitoring (5) 19:3,23,24,24,25 monthly (1) 29:11 months (4) 3:14;14:13;15:3,21 more (9) 11:8;18:23;19:19; 22:11,17;26:22;27:9; 28:7;30:3 move (3) 20:6;22:20;26:21 moving (2) 12:24;14:18 much (4) 4:11;18:16;25:18; 30:4 myself (2) 17:22;28:14	N nacelle (2) 13:3,13 name (6) 9:3,14;17:25;18:9; 23:8;24:22 natural (2) 4:21;11:13 near (1) 15:6 necessary (2) 15:22;18:8 need (10) 7:12;15:20;16:3; 18:7,8,17;20:24; 21:18;22:11;23:18 needed (1) 9:17 negotiations (2) 24:25;25:1 new (10) 15:5,7;17:20;18:22; 19:1,2,3;20:8,12; 24:13 next (1) 12:14 NextEra (1) 25:17 Nice (2) 17:12;25:23 night (2) 25:18;30:5 Nobles (1) 12:2 noise (7) 19:3,17,19,23;27:1, 3,5 normally (1) 9:7 North (1) 12:4 note (3) 8:10;9:19;16:22 notice (7) 6:18;10:3,3,5,9,17; 29:24 noticed (1) 20:3 November (1) 25:3 nuclear (1) 5:8 number (7) 8:11;10:22;16:13, 14;20:23,25;27:22 numbers (3) 16:20;20:24;21:18	12:18 obligation (1) 26:9 obviously (1) 17:10 October (1) 7:9 off (3) 20:5;24:6;28:23 old (2) 15:7;21:5 once (3) 6:18;11:8;28:7 one (12) 5:4;7:13;9:19; 11:22;14:18;20:3; 24:13,24;27:9,14,18; 29:12 online (13) 4:16;5:5;7:2,11; 16:9;20:21;21:2,3,13; 22:14;24:14;28:21; 29:21 only (3) 13:7;16:23;28:5 onto (1) 10:14 open (1) 5:11 open-meeting (1) 5:3 operate (1) 11:11 operating (1) 19:14 operational (3) 10:22;12:21;16:24 opinion (1) 22:19 opponents (1) 5:13 order (2) 14:11;18:17 original (3) 17:15;19:1;27:10 originally (1) 3:8 OSMUNDSON (5) 23:18,22,24;24:20; 25:11 O-S-M-U-N-D-S-O-N (1) 24:1 otherwise (2) 10:16;23:5 out (18) 3:3,18,23;9:23; 14:1,20;17:14;18:5; 19:20,25;20:1;25:23; 26:9;28:7,8,12,25; 30:1 outlined (1) 11:20 over (10)
M			O	
mail (2) 7:11;10:3 mailed (1) 10:5 mailing (1) 9:23			objectives (1)	

3:17,18,22,25;6:17; 9:10;19:13;23:25; 24:2,3 Overall (1) 14:8 overview (1) 3:10 own (2) 22:18,19 owner (2) 3:19;23:22	24:13,21;26:10,11; 27:25;29:7,19,21 permit-amendment (1) 3:12 permits (4) 4:23;5:6;20:8;21:7 permitting (4) 5:7;12:18;16:24; 20:23 person (1) 4:24 phone (2) 16:13,19 picking (1) 25:10 piece (3) 13:14;15:14;17:7 pieces (2) 4:4;11:22 pipelines (1) 5:7 pissed (1) 24:6 place (5) 13:25;15:5;19:4,6; 24:1 placed (1) 25:5 plan (2) 12:12;20:14 Pleasant (1) 12:2 please (2) 10:13;23:16 pm (2) 4:18;30:6 point (1) 3:23 portfolio (1) 11:17 position (1) 6:23 possible (2) 12:17;21:25 post-construction (1) 19:23 posted (2) 21:20,23 potential (1) 7:23 power (1) 27:9 practical (1) 17:18 present (1) 17:25 presentation (2) 17:10;29:23 presentations (1) 21:20 pretty (2) 3:14;23:12 probably (2)	7:8;8:15 problem (2) 24:15;25:16 problematic (1) 15:15 process (11) 3:11;4:4;5:11,16; 10:15;16:25;17:1; 18:22;24:18;28:17; 29:13 produced (1) 12:7 production (2) 11:7;22:22 Project (34) 3:7,8,19;6:18;7:20, 24:9;12:25;10:7,14, 21,21,24;11:1;12:20, 22;15:3,25;16:8,12; 17:4,15,16;19:1,10; 22:9,20;23:23;27:11; 28:4,6,7,17;29:2 projects (5) 9:24;17:18;18:15; 19:11;27:18 project-specific (1) 16:9 promised (1) 25:22 properly (1) 16:1 property (3) 3:23;25:4;27:11 proponents (1) 5:13 proposal (5) 12:22;13:9;14:2,12, 15 proposed (6) 6:3;11:25;12:5,10; 14:25;21:15 proposing (2) 13:4;21:15 provide (1) 11:12 provision (1) 29:9 Public (10) 3:2,13;5:13;6:12; 9:4,7;12:1,18;16:1; 28:5 pull (1) 8:12 purposes (1) 6:1 put (4) 8:17;18:14;23:9; 28:21	quiet (1) 26:22 quite (1) 25:19 R radius (3) 15:9,13,19 rather (1) 16:25 reach (2) 11:23;29:12 read (1) 20:21 reading (1) 8:23 real (1) 20:23 realize (1) 29:18 really (5) 9:22;11:22;20:4; 21:4;26:5 reason (2) 6:6;26:2 rebuild (1) 9:18 receive (2) 8:22;10:5 received (4) 8:7;10:2,16;29:11 receiving (1) 10:12 recognized (1) 11:14 recommendations (2) 4:5;5:21 record (5) 7:15;8:2,5,13;9:25 red (1) 13:6 reduce (2) 12:16;15:17 reductions (1) 11:15 reinforcement (1) 26:14 refer (1) 10:9 register (1) 8:21 regularly (1) 20:13 related (1) 4:20 remember (1) 7:3 reparation (1) 25:1 replace (2) 14:17;15:7 replaced (1)	14:10 reporter (4) 17:23;18:1;23:6,9 Repower (7) 10:21;11:5,9;12:22; 13:11;14:10,13 repowering (3) 17:18;18:15;22:20 representative (1) 16:15 required (1) 29:18 requires (2) 27:8;29:10 requiring (1) 20:7 resolved (1) 29:13 resolving (1) 29:14 responsibilities (1) 4:22 responsibility (1) 4:19 responsible (2) 16:5;26:12 responsive (1) 25:20 restoration (2) 11:15;16:4 result (1) 12:7 retrofit (2) 13:1;14:13 review (8) 4:3,4;5:22;10:15, 15;17:9,16,20 reviewed (1) 20:15 reviewing (1) 5:17 reviews (1) 5:10 ride (1) 22:25 right (10) 13:14;14:16;15:18; 18:4;24:25;25:6,8; 26:8,19;29:3 rights (1) 9:16 rings (1) 11:2 river (1) 25:9 road (2) 15:22;28:1 roads (1) 16:1 road-use (2) 15:23;16:6 room (1) 9:6
P				
page (1) 21:21 paper (1) 16:22 papers (1) 22:8 parcel (1) 15:14 parcels (1) 15:18 Part (9) 4:22;5:6;11:17; 12:4;13:8;14:10,25; 24:23;28:16 participating (1) 29:2 participation (1) 28:6 particular (4) 3:23;6:2;10:24; 21:10 parties (1) 5:13 path (1) 14:23 patterns (1) 16:2 Paul (1) 5:5 pay (1) 26:14 payments (1) 12:8 pen (1) 16:22 people (3) 3:21;14:19;29:16 per (2) 13:20;14:8 percent (3) 11:19,21;25:8 perhaps (2) 23:1;27:9 period (4) 6:9,19;7:3;10:4 Permit (22) 3:7,8,9;4:24;5:20, 24:8;16;19:13;20:20; 21:3,5,11;22:16,17;				
		Q		
		quarter (2) 14:15,15		

rotor (8) 13:18,21;14:4,6; 26:18,19,22,23 routinely (1) 29:10 run (2) 11:8;24:15 rusty (1) 3:14 Ryan (6) 24:22,22;25:12; 27:6,10,20	26:7,12;29:7,21 site-permit (2) 3:20;5:17 siting (1) 9:15 six (3) 14:13;15:3,21 slide (2) 13:4;23:9 slides (1) 4:12 small (2) 23:12;27:22 soil (2) 6:2;14:20 solar (1) 5:8 solid (1) 12:12 something's (1) 8:22 sometime (1) 7:8 sometimes (1) 19:8 somewhere (1) 4:17 sort (1) 5:9 sorts (1) 19:2 South (3) 11:1,3;18:9 speak (4) 23:8;27:23;28:13, 24 specific (2) 17:3;21:10 speeded (1) 18:22 spell (1) 18:1 spelled (1) 26:9 St (1) 5:5 staff (3) 4:24;7:13;9:4 staging (1) 25:4 stand (1) 23:15 standard (3) 27:1,3,5 standards (2) 12:16;21:6 start (1) 9:23 started (1) 4:13 starts (1) 18:10 State (11)	4:21;9:16;10:15; 12:16;15:1,19;16:25; 21:15;23:8;27:1,5 states (1) 11:11 stay (1) 4:8 staying (1) 19:6 stays (3) 13:24,25;18:14 step (2) 12:11,14 stick (1) 30:2 still (5) 12:23,23;24:7; 27:15,15 stinking (1) 24:9 stone (1) 6:4 storm (1) 11:15 straightforward (1) 18:23 strategy (1) 20:13 studies (3) 19:1,2,3 submit (1) 7:10 subscribe (1) 8:20 successful (1) 28:4 supplied (1) 15:19 support (1) 12:9 sure (9) 9:22;15:25;16:21; 20:2,18;26:25;27:4, 13;29:13 surprised (1) 21:8 system (6) 8:9,13;11:20;13:5; 24:12;27:7	tall (1) 13:25 team (1) 26:14 teammates (1) 27:14 tearing (1) 29:4 technology (1) 11:16 telephone (1) 4:21 temporary (2) 15:9,20 ten (1) 7:7 tentative (1) 6:25 termed (1) 10:25 terms (1) 26:17 terrific (1) 24:24 test (1) 19:25 Thanks (4) 3:3;24:10;27:21; 30:5 thinking (1) 28:12 thoroughly (1) 22:12 throughout (1) 17:1 tile (1) 14:20 timeframe (1) 7:9 times (1) 27:4 today (3) 7:1;9:8;13:9 told (1) 19:16 tomorrow (5) 4:12,14;7:1;8:17; 28:21 tonight (8) 3:3;4:15;6:11; 10:20;12:15;21:2; 22:13;28:21 tonight's (1) 10:3 took (2) 19:13;21:5 top (3) 3:14;13:6,14 totally (1) 24:9 touch (2) 6:14;17:2 tower (3)	13:13,15;25:2 towers (1) 13:7 town (2) 18:9;28:12 townships (2) 15:24;16:7 track (1) 16:20 tracked (1) 29:12 traffic-flow (1) 16:1 transmission (1) 5:8 trash (3) 24:2,4,5 tried (2) 24:4,5 try (2) 9:22;23:14 trying (2) 8:24;27:18 turbine (13) 13:12,13;14:18,18, 23,24,24,25;15:5,8, 10,12,20 turbines (13) 10:23;11:3,5,6; 12:21,23,24;14:4,6, 14;19:7;26:1,25 turn (5) 3:16,25;9:10;13:7; 28:3 turned (1) 25:4 turning (1) 28:17 two (1) 13:4 type (1) 26:4 types (1) 7:18
	S			U
same (5) 4:15;12:23,25; 13:24;19:6 Saturday (1) 25:18 save (1) 12:6 schedule (1) 6:25 screen (1) 9:21 second (2) 14:14,15 secondary (1) 25:4 secure (1) 9:17 sediment (1) 6:2 seemed (1) 25:20 seems (1) 29:16 send (2) 10:7;16:11 sending (1) 22:15 sensible (1) 17:18 sent (1) 6:16 September (1) 7:8 seriously (1) 26:5 set (1) 16:3 several (3) 4:20;18:6;21:9 side (1) 3:22 simply (1) 29:17 sister (1) 4:2 Site (13) 3:7,8;5:20,24;8:16, 21;20:20,23;25:5;		table (2) 3:18;6:13 tabs (1) 28:16 talk (10) 4:9;9:11;10:20; 11:6;13:3;16:12;17:8; 26:18;28:15;29:6 talking (4) 3:11;10:24;21:22; 24:24	under (2) 20:22;29:19 unique (1) 7:24 unit (2) 4:24;5:7 unresolved (1) 29:14 up (18) 8:12;16:3,9,23,23, 25;17:8;18:22;23:4,5, 7,9,19;24:5,18;25:10; 26:7,12 updated (3) 20:13,14;21:6 updates (2)	

29:10,11 upgrading (1) 12:1 upload (1) 4:12 use (2) 15:2;21:21 used (1) 7:22 useful (1) 14:21 using (1) 15:25 usually (1) 28:4 Utilities (3) 3:2;12:1,18	White (5) 23:23;24:24;25:17, 24:28;22 whole (2) 17:16;18:22 who's (1) 20:2 Wind (13) 3:5,6;5:7;9:17,18; 10:21;11:6,16;12:2,3; 19:14;24:24;26:20 wind-energy (1) 11:17 within (9) 4:23;5:7;9:25; 10:23;12:16,21;13:3; 14:1;16:16 work (5) 9:15,16;16:4;17:14; 29:16 worked (1) 25:2 working (2) 16:6;19:12 works (1) 20:1 Workspace (3) 15:4,10,21 write (3) 6:11;20:24;21:18 written (1) 6:4 wrong (1) 13:19 WSB (1) 25:13	1.5-megawatt (1) 11:4 1.6-megawatt (1) 11:6 1/2 (2) 13:19,20 10 (2) 13:22;18:18 100 (2) 11:21;25:8 12 (1) 18:18 14 (1) 14:7 15 (2) 14:5;26:24 17th (2) 7:6;25:3 18 (1) 3:14		
V			4	
Valley (1) 12:3 variance (1) 19:5 vision (2) 11:18,21 visiting (2) 25:13,19			400-foot (3) 15:9,13,19	
			5	
			5 (1) 19:8 50 (1) 8:15 52 (2) 14:3,3	
			6	
			6 (1) 4:18 6:50 (1) 30:6 60 (1) 8:15 67 (7) 10:23;11:3;12:21, 23;14:3,5,14	
W			7	
walk (1) 14:24 wants (1) 23:13 Wapsipinicon (3) 11:1,1;17:16 way (6) 6:15;12:9;13:22; 17:3;19:20,21 ways (1) 7:10 WBS (1) 25:16 web (1) 21:20 website (8) 4:16;8:3,12;10:6; 16:9,10;21:17;29:22 websites (1) 16:20 weekly (1) 29:10 welcome (3) 5:3;7:2;8:25 what's (3) 18:9;26:2;28:1 Where's (1) 27:6 wherever (1) 15:2 whichever (1) 6:15	X		7 (1) 14:8 77 (1) 26:20 77-meter (1) 13:18 7-foot (1) 26:1	
	Xcel (12) 3:17,19,19;8:1; 9:11,15;11:10;16:8; 19:10,12;25:16,19	2 (1) 11:13 20 (2) 14:8;25:9 2005 (1) 11:20 2007 (1) 17:14 2008 (4) 10:23;12:21;17:14; 21:5 2023 (3) 14:15,16,16 2030 (1) 11:18 2050 (1) 11:21 20th (1) 25:3 24 (1) 16:16 24th (1) 5:19 25 (1) 14:9	2	8
	Y		9	
	year (3) 5:19;12:14;14:16 years (4) 10:23;18:19;20:16; 21:9	3 (1) 19:8 3.6 (1) 11:12 33 (1) 13:19 35 (1) 13:23 37 (1) 13:20 3rd (3) 6:9,10;7:4	3	80 (2) 11:19;13:25
	0			9
	00 (1) 26:18 07-839 (3) 8:11;20:22,24			90 (1) 20:3 91 (1) 26:21 91-meter (2) 14:6;26:22 97 (2) 13:21;26:21 97-meter (2) 14:4;26:23
	1			
	1.5 (1) 11:4			