

In The Matter Of:

*Amendment to Repower the 200 MW Pleasant Valley Large
Wind Energy Conversion System in Dodge and Mower Co's.*

Virtual Public Information Meeting - 09-1197

August 17, 2022

09-1197 - Virtual Public Information Meeting - 8-17-22

Shaddix & Associates

7400 Lyndale Avenue South

Suite 190

Richfield, MN 55423

Page 1

1 AUGUST 17, 2022 - PUBLIC INFORMATION MEETING - 09-1197
 2 BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION
 3 AND DEPARTMENT OF COMMERCE
 4
 5
 6 In the Matter of the Application for a Site Permit
 7 Amendment to Repower the 200 MW Pleasant Valley Large
 8 Wind Energy Conversion System in Dodge and Mower
 9 Counties, Minnesota
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 11 PUC DOCKET NO. E-002/WS-09-1197
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 18 Met via Webex, pursuant to Notice, at
 19 6:00 p.m. in the evening on August 17, 2022.
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 25 COURT REPORTER: Bridget E. Kelly

Page 2

	I N D E X	
1		
2	SPEAKER	PAGE
3	Scott Ek	3
4	Matt Langan	6
5	Valerie Sheedy	16
6	Adam Hutchens	19
7	Lucas Franco	20
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

Page 3

1 **MR. SCOTT EK:** So welcome. This is the
 2 public information meeting for the Pleasant Valley
 3 Wind repowering project, PUC Docket
 4 E-002/WS-09-1197. It's August 17th, and my name is
 5 Scott Ek. I am an analyst with the Public Utilities
 6 Commission, and we're here tonight to provide
 7 information and accept questions and comments about
 8 the Pleasant Valley Wind project.
 9 So tonight's agenda, I will describe the
 10 application review process. Rich Davis is also
 11 available online when we get to the question and
 12 comment period, who can answer with the Department
 13 of Commerce, Energy Environmental Review and
 14 Analysis. And they assist the Commission as
 15 technical advisors and prepare environmental
 16 documents as well, and he can answer any questions
 17 for their department. After I do a quick little
 18 review, Matt Langan with Xcel Energy will describe
 19 the project, and then we'll get to questions and
 20 comments.
 21 So the Pleasant Valley Wind facility is
 22 in operation. It received a permit back in October
 23 of 2010. The permit was amended a few times to
 24 change ownership and changes to the proposed
 25 facility at the time. So the facility's been in

Page 4

1 commercial operation since about November 2015.
 2 This April Xcel Energy applied for amendments to the
 3 site permit to reflect its proposal to repower and
 4 upgrade the facility to improve turbine technology,
 5 energy yield, and extend the service life of the
 6 facility.
 7 So the repower, it would include
 8 replacing 100 of the existing turbines with larger
 9 rotors, gearboxes, and other components individually
 10 or replacing that whole nacelle, which includes all
 11 the mechanics and the blades and whatnot. But all
 12 of the turbines will receive some upgrade from this
 13 proposal. What to note is the locations of the
 14 turbines, the foundations, the towers themselves
 15 will remain as they are. It's just replacing the
 16 blades and the mechanical equipment.
 17 As Xcel has indicated in their
 18 application, it will result in an increase in the
 19 overall facility production capacity. It's
 20 currently rated at 200 megawatts. The upgrades
 21 would enable it to generate 220 megawatts, but the
 22 point of interconnection in accordance with the
 23 generator interconnection agreement will still
 24 remain at the existing 200 megawatts. This is not a
 25 new facility. So this is -- it's a repower, but

Page 5

1 it's technically considered a permit amendment.
2 So when the Commission considers any wind
3 farm, even a new one, as well as permit amendments
4 like this, the Commission ensures that any of the
5 changes are compatible with environmental
6 preservation, sustainable development, and the
7 efficient use of resources, following that rule of
8 law. Rules provide that the Commission may amend a
9 site permit at any time if it has good cause to do.
10 That's one of the rules we're following, and statute
11 says the Commission may place conditions in a
12 permit, modify -- in this case modify, suspend, or
13 revoke a permit. In this case we're talking about
14 modifying a permit.
15 So the review timeline is a little
16 different than a new facility. As you can see, the
17 application, as I said, was filed in April. We had
18 an in-person public information meeting last night
19 in Austin, Minnesota. Fairly well attended with
20 about 19 folks, good questions yesterday. And
21 tonight we're having the remote-access public
22 information meeting. The close of the comment
23 period, which I'll get to later in the slides -- the
24 written comment period is August 31st because this
25 amendment -- the review schedule is a little

Page 6

1 different. But there will be post-meeting filings
2 by the Department and Commerce sometime in
3 September, and it's anticipated the Commission would
4 make a decision on the repower application sometime
5 in October. And so that's just the review process,
6 a summary of the amendment process for an existing
7 wind permit.
8 And now I'll turn it over to Matt Langan
9 with Xcel Energy, who will provide a little more
10 detail on the specifics of the repower.
11 **MR. MATT LANGAN:** Okay. Thank you,
12 Scott. And, Scott, can you hear me okay right now?
13 Okay. Great. Thank you. Good evening,
14 everyone. My name's Matt Langan. I'm with Xcel
15 Energy. We are proposing a repower of the Pleasant
16 Valley Wind Project, and I'd like to go into what
17 the details of that are. Scott already did a good
18 job of explaining some of the basics of the
19 proposal, and we'll get through this presentation.
20 I think Scott's got a few more pieces of information
21 to share, and then as Scott mentioned we're
22 available for questions, comments, whatever it may
23 be, to have a discussion about the project.
24 But next slide, please, Scott.
25 A little bit about Xcel Energy. As a

Page 7

1 company we have service territory in eight states in
2 the U.S. We serve 3.6 million electricity customers
3 and 2 million natural gas customers. We are a
4 recognized leader in wind energy, energy efficiency
5 carbon emissions reductions, innovative technology,
6 and storm restoration.
7 Next slide, please.
8 And we have a vision for a carbon-free
9 future. Recently in 2020 we hit a mark of over 50
10 percent of lower carbon emissions as compared to
11 2005 levels, and we're on a path to lower those by
12 80 percent by 2030 as compared to 2005. And then we
13 ultimately have a vision in the year 2050 to provide
14 100 percent carbon-free electricity, and the -- you
15 know, our wind portfolio and the Pleasant Valley
16 Wind Farm played a really important role in that
17 vision.
18 Next slide, please.
19 So in 2020 Xcel Energy applied to the
20 Minnesota Public Utilities Commission for approval
21 of repowering four of our wind farms in the upper
22 midwest, three of which are in Minnesota, and one of
23 them is -- one of which is Pleasant Valley. And
24 that plan was approved by the Commission in December
25 of 2020, but there's still more approvals to go,

Page 8

1 including this site permit amendment, as Scott
2 described in his opening remarks. The idea behind
3 this is that we have the opportunity to extend the
4 life of this operating wind farm, to increase the
5 energy efficiency of the farm with new technology,
6 and all while saving our customers money, increasing
7 the energy produced, and providing additional and
8 lengthened landowner and local government payments.
9 Next slide, please.
10 So the existing wind farm was built and
11 operational in 2015. The wind farm as it exists
12 consists of 100 Vestas V100. That's the model of
13 turbine, V100 2.0-megawatt turbines. So each of
14 those turbines has a capacity of 2.0 megawatts. The
15 repowered wind farm that we're proposing would be
16 built and operational by the end of the year 2025.
17 It would consist of 100 Vestas V110 2.2-megawatt
18 turbines, and the model numbers -- V100 indicates
19 the rotor diameter, so the blade length in diameter
20 as its rotor swept, and so that's a 100-meter long
21 rotor diameter, a 50-meter blade length, is what
22 that translates to. So the repowered wind farm
23 would be a V110, a 110-meter rotor diameter, 55
24 meter blades. So do the math, they're about 16 1/2
25 feet longer blades after repower.

1 And then another component that we intend
2 to install during the repower and thereafter is
3 something called an aircraft detection lighting
4 system. You might hear this referred to as ADLS.
5 This is an FAA-approved lighting system for wind
6 farms. Out in southwestern Minnesota and North
7 Dakota, this is being used. And what it is, is
8 instead of the static red aircraft safety lights
9 that go on the top of the nacelle of each turbine
10 and that red light is always on during nighttime
11 hours, when we install this system, we're able to
12 turn those lights off except when an aircraft is
13 detected as approaching. And then the red lights
14 turn on, and FAA can safely navigate the area. So
15 we've found that communities have really favored
16 this type of system, having the lights only used
17 during aircraft -- when aircraft are detected and
18 then off when they are not. So that's part of this
19 proposal that's being reviewed at the state.

20 Thank you, Scott. Next slide, please.
21 So to describe the construction process
22 that we're proposing, the timeline is that we would
23 -- you would start to see construction activities in
24 the spring of 2025. There may be some minor site
25 preparation work a little bit earlier than that, but

1 workspace would be our construction equipment. It
2 would be the blades and hub and components that are
3 removed from the top of the tower, and it would be
4 the stocked -- you know, the stored new components
5 that would be placed on the top of the tower as part
6 of the repower project. So all that activity, we're
7 saying we need a maximum of a 400-foot radius around
8 each tower foundation.

9 Next slide, please, Scott.

10 So this is just a figure to illustrate
11 what changes and what stays the same. The blades
12 will be replaced. The nacelle in some cases will be
13 replaced fully, and in some cases we will simply
14 replace components inside the existing nacelle. And
15 then the hub that connects the three blades together
16 will be replaced as well. What will stay the same,
17 and Scott alluded to this earlier -- what will stay
18 the same is the foundation and the tower. Those
19 will remain, same size and the same location for all
20 100 towers.

21 Next slide, please.

22 Hopefully the folks on the phone or on
23 this webinar received notice of this meeting tonight
24 via direct mail, and if you did, that means you're
25 on the project mailing list and you'll continue to

1 the majority of the -- the bulk of the construction
2 process would begin in second quarter of 2025, with
3 the intention of concluding by the end of that year.
4 So approximately six to eight months of construction
5 duration.

6 In order to remove the existing
7 components at the top of the tower and to replace
8 those with the new components, the project will use
9 cranes to disassemble and reassemble top-of-tower
10 components. Importantly, we want to share with this
11 group and the community that the cranes are -- the
12 cranes we've selected for this project are
13 rubber-tire cranes that will use public roads and
14 existing access roads in order to access the
15 construction site at each turbine. We are not
16 proposing to cross -- to go across country with
17 cranes as we move from turbine to turbine. So we
18 are looking to reduce or eliminate impacts to
19 agricultural fields, to drain tile systems, along
20 with this proposal, and that's our approach to it.

21 In terms of the temporary workspace
22 around each turbine, we're evaluating a maximum of a
23 400-foot radius around the turbine foundation. So
24 that area -- what would occur within that 400-foot
25 radius or, you know, what would be in that temporary

1 get updates as we move through the state's review
2 process. There's all kinds of really good contact
3 information there. Scott has his information there.
4 Rich Davis from the Department of Commerce has his
5 contact information, as well as mine. And I think
6 the three of us would say that at any time you have
7 a question, you know, after tonight's meeting,
8 please feel -- you know, don't hesitate to reach out
9 to us. We're happy to answer questions or clarify
10 things.

11 But I wanted to provide some contact
12 information here if you'd like to get in touch with
13 the project directly. The first bullet is an e-mail
14 address that a few of us have access to, and we'll
15 make sure to turn around any responses there that
16 come in. We also have a project direct phone number
17 where you can call us or leave a voicemail. And
18 then we do have a website set up to provide this --
19 you know, the information that we're sharing
20 tonight, as well as additional information about the
21 project in case you're interested in further
22 reading, and that's at
23 xcelenergy.com/pleasantvalley.

24 Scott, that's what I wanted to cover
25 tonight. I'll turn it back to you. Thank you.

1 **MR. SCOTT EK:** Thank you, Matt. So as I
 2 explained earlier in the presentation, after tonight
 3 and through August 31st, there is a written comment
 4 period as well, where folks can provide their
 5 written comments into the record. And the
 6 information here is on the screen. You can do that
 7 online. We have an online service if you navigate
 8 to the website there, e-mail, as well as U.S. mail.
 9 The comments you give verbally tonight -- there's a
 10 court reporter online with us that will -- that is
 11 transcribing what we talk about tonight, and any
 12 comments you provide, that will also be in the
 13 record. And I will get to -- there's a copy of this
 14 presentation on our eDockets system, as well as the
 15 notice with all this information as well, and that
 16 will be the last slide of this presentation.
 17 So if you do want to comment, of course
 18 you're welcome to comment on anything you'd like
 19 about the project or even ask questions in a comment
 20 that you provide. But what's helpful for the
 21 Commission and staff is to find out, you know, what
 22 you think are the potential human or environmental
 23 impacts of this proposal. And you are the folks
 24 that live around there and are landowners, and you
 25 know more than anyone. So if you have something

1 you'd like to point out that the Commission should
 2 be aware of, by all means put that in a comment.
 3 The second question is: Should this site permit
 4 amendment be approved? Simple. So those are the
 5 questions that kind of help guide the Commission
 6 through the process. But as I said any comment or
 7 question is always valued of course.
 8 So I think we're going to get -- we're at
 9 the end of the presentation. We're going to get to
 10 the presentation of comments or questions,
 11 either/or. So if you'd like to speak, on the Webex,
 12 those folks that went online, not using a phone,
 13 either use -- there's a chat function. And I think
 14 everybody's set up maybe a little different, but
 15 there should be a chat function. I know mine ends
 16 up being in the lower right-hand corner of my
 17 screen. I think there's also a
 18 you-can-raise-your-hand function, and I can see that
 19 as well. Those of you on the phone, I think you
 20 need to press star 3 on your phone and that will
 21 alert me to know that you have a question or comment
 22 that you'd like to provide, so either of those
 23 things.
 24 Please, when I open your mike, state your
 25 name and spell it for the court reporter so we have

1 that in the transcript. Speak clearly. And it
 2 looks like we only have a handful of folks attending
 3 tonight, so it doesn't look like we're gonna need to
 4 abide to the five minutes. We only use that if we
 5 have an awful lot of people that want to provide
 6 comments, so we want to make sure everybody has an
 7 opportunity to be heard.
 8 And so I think we can go ahead and get to
 9 the public comment period. Actually first, so the
 10 screen -- the slide that you see up now gives all
 11 that information about how to find information on
 12 the Commission's eDockets system, how to provide
 13 comments. The Department of Commerce has a website
 14 that provides information as well. You can see that
 15 down at the bottom, additional information. Our
 16 website is mn.gov/puc. You select eDockets. It
 17 takes you to our eDockets system. You type in 09
 18 for the year. It says year and the docket number's
 19 1197, and that will give you a list of all the
 20 records -- or all the documents in this record, so.
 21 And we have the contact information on the
 22 right-hand side of the screen if you have any
 23 trouble accessing the information or need help
 24 providing a comment.
 25 Other than that, I will open it up for

1 comments. And it looks like our first person is
 2 Valerie S., and I will unmute. Valerie, you're
 3 unmuted.
 4 **MS. VALERIE SHEEDY:** My name is Valerie
 5 Sheedy, V-A-L-E-R-I-E, S-H-E-E-D-Y. I work for
 6 Mower County. And I wondered if Xcel Energy could
 7 speak to or elaborate on the staging of inbound and
 8 outbound equipment for the repower, particularly the
 9 blades and probably the decommissioned blades.
 10 Where will those go? How long will they be around?
 11 Do you anticipate all of that equipment to be
 12 completely removed and replaced and disposed of at
 13 the end of 2025? That's all.
 14 **MR. SCOTT EK:** Thank you, Valerie. I
 15 think that's a question for you, Matt.
 16 **MR. MATT LANGAN:** Thanks, Scott, and
 17 thanks for the question, Valerie. Yes, we -- I
 18 guess first of all, as part of this site permit
 19 amendment approval, we will need to update our
 20 decommissioning plan and provide those kind of
 21 timelines that you're asking about. The plan is,
 22 yes, to take the decommissioned blades and hubs and
 23 components and move them off-site, yes.
 24 In terms of disposal, I will -- I may
 25 have to -- that might be something, Valerie, that I

Page 17

1 need to get back to you on with a specific schedule,
2 as I don't know offhand. But certainly they will be
3 removed off-site and either disposed of recycled or
4 reused. Let me check. I do have members of the
5 project team on, and I want to make sure that I'm
6 not missing anyone here who might have an answer for
7 the timing of all the blades being removed, if we
8 have a time frame for that.
9 Okay. Hearing none. Scott, if you will,
10 this -- I think this needs to be something that Xcel
11 will put in its comments to provide information for
12 Mower County as to our intended time frame for those
13 activities.
14 **MR. SCOTT EK:** And, Matt, yeah, I -- we
15 have Valerie on the line, and I know she's with
16 Mower County, so offline I would expect you could
17 contact Valerie as well.
18 **MR. MATT LANGAN:** Yeah, okay. Will do.
19 I think that's something that I'll check in with the
20 project team, and we'll see if we could submit those
21 yet during our comment period, if that information
22 is available yet so that we can get Valerie her
23 answer. That's a good question.
24 **MR. SCOTT EK:** And, Valerie, did you have
25 any additional questions or a follow-up?

Page 18

1 **MS. VALERIE SHEEDY:** You can contact me,
2 sure, Matt, at Mower County. You'll be able to find
3 me there through the website. And just to note for
4 you and your team, if you need staging areas, we do
5 have, you know, zoning and land-use restrictions in
6 Mower County, so please do get ahold of our office
7 and we can help you through those -- through those
8 steps for staging your equipment in and out.
9 **MR. MATT LANGAN:** That's very helpful.
10 Thank you, Valerie. In some projects we do look for
11 yards and some space to do so, and we know there
12 could be some conditional-use permitting associated
13 with that. And so that -- you know, were we to need
14 that, we would definitely be in contact and go
15 through those permitting approvals. There is a
16 possibility, I'll say, that the new materials get
17 delivered in such a way that they are able to be
18 delivered straight to pad, so straight to the
19 turbine site without having to stockpile. And those
20 details will evolve sort of over time here, but
21 that's also a possibility.
22 **MS. VALERIE SHEEDY:** Great. Thank you.
23 Along those lines I'd encourage you to contact our
24 public works director to make sure that if a
25 road-use agreement is appropriate, that you can get

Page 19

1 that in place as well.
2 **MR. MATT LANGAN:** Another good comment,
3 Valerie. And I will say that as part of the
4 requirements of the new site permit, we anticipate
5 needing a road-use agreement with Mower County with,
6 you know, a degree of participation; however, it
7 gets worked out between the county and townships and
8 -- of a road-use agreement that's agreed to by all
9 parties. So most definitely we will be in touch
10 regarding that.
11 **MS. VALERIE SHEEDY:** Thank you. That's
12 all I have.
13 **MR. SCOTT EK:** Thank you, Valerie. Okay.
14 The next person I had -- there's two folks, Adam
15 Hutchens and then there's a call-in user. I don't
16 have the name. But we'll go to Adam Hutchens next.
17 Adam, I have your mike open.
18 **MR. ADAM HUTCHENS:** All right. Well,
19 thank you. First off, good evening. Thank you for
20 the opportunity to comment. My name is Adam
21 Hutchens, A-D-A-M, H-U-T-C-H-E-N-S. I'm currently a
22 marketing representative of LIUNA Minnesota North
23 Dakota. We're a construction union that represents
24 over 13,000 members in the State of Minnesota and
25 North Dakota. In a previous role with LIUNA, I was

Page 20

1 actually a trainer with our apprenticeship program.
2 In our apprenticeship program, our LIUNA
3 members are enrolled in a three-year apprenticeship
4 where they learn industry-leading skills both
5 hands-on and in the classroom. These skills lead to
6 good family-sustaining wages, wages earned while
7 working on renewable energy projects such as the
8 Pleasant Valley Wind Farm repower. We just want to
9 express our strong support for the Pleasant Valley
10 Wind Farm repower project 'cause of the
11 opportunities it'll create for the workers and how
12 much it will contribute to the local economy. So
13 thank you for your time.
14 **MR. SCOTT EK:** Thank you, Adam. The next
15 person, I don't have a name. So your mike should be
16 open. If you could please state your name and spell
17 the name.
18 **MR. LUCAS FRANCO:** Yes, good evening.
19 Can you hear me all right?
20 **MR. SCOTT EK:** Yep. Yes, I can.
21 **MR. LUCAS FRANCO:** Great. Excellent. My
22 name is Lucas Franco, L-U-C-A-S, F-R-A-N-C-O, and
23 I'm the regional research manager also with LIUNA
24 Minnesota & North Dakota. And many of our members
25 live in southern Minnesota near the project area and

1 have worked in both wind and solar for quite a long
 2 time. And over this time they've earned good
 3 family-sustaining wages off renewable energy
 4 projects throughout the region.
 5 I'm here tonight with my colleague Adam
 6 Hutchens to express strong support for the Pleasant
 7 Valley Wind repower project. This project we know
 8 will create good opportunities for local workers and
 9 maximize benefit to the local economy. This project
 10 will have an especially positive impact on the
 11 regional economy because Xcel plans to work with
 12 labor unions to recruit and utilize skilled local
 13 workers to build it. We've seen, and myself in my
 14 personal experience, far too many renewable energy
 15 projects in the past rely heavily on traveling
 16 construction workers to build new wind and solar
 17 projects. And we know this is not gonna happen on
 18 this project, and that's a really good thing. Xcel's
 19 gonna build this project the right way by relying on
 20 skilled local workers.
 21 And I've done a lot of research around
 22 the impacts of local versus nonlocal hiring
 23 practices in the industry, and it's really clear
 24 that a commitment to local workers leads to a much
 25 greater investment in the regional economy. In fact

1 in past research I've found that local workers tend
 2 to spend three to four times more money locally,
 3 which generates higher earnings for area grocery
 4 stores, restaurants, car dealerships, and other
 5 businesses. There's a real ripple effect by that
 6 commitment to using -- utilizing the maximum level
 7 of local workers.
 8 It's also important to highlight, in this
 9 project in particular, that it will efficiently use
 10 existing wind resources and have a minimal impact on
 11 the surrounding environment. The developer's
 12 replacing outdated wind turbines with new, more
 13 efficient turbines, and further the ability to use
 14 an existing point of interconnection is particularly
 15 crucial in a time of great congestion as we're
 16 facing right now.
 17 So in conclusion I strongly support this
 18 project because it will maximize local socioeconomic
 19 benefit, minimize environmental impacts by upgrading
 20 an existing facility, and efficiently utilize
 21 resources through the use of an existing point of
 22 interconnection. I believe the Commission should
 23 approve the requested site permit amendment. I
 24 thank you all for the opportunity to comment
 25 tonight.

1 **MR. SCOTT EK:** Thank you, Mr. Franco. We
 2 appreciate it. We appreciate your comments. So
 3 right now there's no other folks that have indicated
 4 they want to speak. Again, just in case I will
 5 remind folks, those on the web, just online on a
 6 computer, either use the chat function or
 7 raise-your-hand function to let me know, or those
 8 that called in on a telephone, star 3. That will
 9 let me know you're interested. We'll wait a minute
 10 or two here. It looks like we still have a few
 11 folks on.
 12 Okay. This is the point -- I always want
 13 to make sure folks who want to speak get an
 14 opportunity to. Chat function or raise-your-hand
 15 function or star 3 on the phone. And as I say that,
 16 I just want to remind folks written comments will be
 17 taken until August 31st. They can be submitted
 18 online. You can submit them to the website, the
 19 online website that's presented on the screen;
 20 e-mail, consumer.puc@state.mn.us; U.S. mail at the
 21 Minnesota Public Utilities Commission, 121 Seventh
 22 Place East, Suite 350, St. Paul, Minnesota 55101.
 23 And again, we just want to know anything that you
 24 feel about the project of course, but what you feel
 25 would be -- are potential human or environmental

1 impacts of the facility, and should the Commission
 2 approve a permit for these -- or approve the
 3 requested amendments, I should say.
 4 Again, if anybody has questions in the
 5 meantime or even after the comment period, my name
 6 is Scott Ek. My information is on the right-hand
 7 side of the screen. Rich Davis is with the
 8 Department of Commerce, who can also -- is very
 9 capable of answering questions when it comes to
 10 permit amendments and permits in general when it
 11 comes to wind facilities such as this. And of
 12 course Matt Langan with Xcel Energy, who can provide
 13 you much greater detail about the proposed project
 14 itself.
 15 And at the bottom there is also the
 16 website at the Department of Commerce that provides
 17 information. And as I said mn.gov/puc will bring
 18 you to our eDockets system, and the year for this
 19 one is 09. The docket number is 1197. There's
 20 prompts on the website that hopefully you'll be able
 21 to figure out, and you input those numbers, and it
 22 will provide you all the dockets that are in this
 23 record that you can download and review
 24 electronically.
 25 Other than that, it doesn't look like

1 anybody's raised their hand or are interested in any
2 more comments or questions, so I will say thank you
3 for participating and we will end the public meeting
4 tonight. Thanks again for everybody who
5 participated. I appreciate it.

6 (Meeting concluded at 6:37 p.m.)

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	amend (1) 5:8	available (3) 3:11;6:22;17:22	22:4	7:10;12
A	amended (1) 3:23	aware (1) 14:2	carbon (2) 7:5,10	compatible (1) 5:5
abide (1) 15:4	amendment (7) 5:1,25;6:6;8:1;14:4; 16:19;22:23	awful (1) 15:5	carbon-free (2) 7:8,14	completely (1) 16:12
ability (1) 22:13	amendments (4) 4:2;5:3;24:3,10		case (4) 5:12,13;12:21;23:4	component (1) 9:1
able (4) 9:11;18:2,17;24:20	Analysis (1) 3:14	B	cases (2) 11:12,13	components (8) 4:9;10:7,8,10;11:2,4, 14;16:23
accept (1) 3:7	analyst (1) 3:5	back (3) 3:22;12:25;17:1	cause (2) 5:9;20:10	computer (1) 23:6
access (3) 10:14,14;12:14	anticipate (2) 16:11;19:4	basics (1) 6:18	certainly (1) 17:2	concluded (1) 25:6
accessing (1) 15:23	anticipated (1) 6:3	begin (1) 10:2	change (1) 3:24	concluding (1) 10:3
accordance (1) 4:22	application (4) 3:10;4:18;5:17;6:4	behind (1) 8:2	changes (3) 3:24;5:5;11:11	conclusion (1) 22:17
across (1) 10:16	applied (2) 4:2;7:19	benefit (2) 21:9;22:19	chat (4) 14:13,15;23:6,14	conditional-use (1) 18:12
activities (2) 9:23;17:13	appreciate (3) 23:2,2;25:5	bit (2) 6:25;9:25	check (2) 17:4,19	conditions (1) 5:11
activity (1) 11:6	apprenticeship (3) 20:1,2,3	blade (2) 8:19,21	clarify (1) 12:9	congestion (1) 22:15
Actually (2) 15:9;20:1	approach (1) 10:20	blades (11) 4:11,16;8:24,25; 11:2,11,15;16:9,9,22; 17:7	classroom (1) 20:5	connects (1) 11:15
Adam (7) 19:14,16,17,18,20; 20:14;21:5	approaching (1) 9:13	both (2) 20:4;21:1	clear (1) 21:23	considered (1) 5:1
A-D-A-M (1) 19:21	appropriate (1) 18:25	bottom (2) 15:15;24:15	clearly (1) 15:1	considers (1) 5:2
additional (4) 8:7;12:20;15:15; 17:25	approval (2) 7:20;16:19	bring (1) 24:17	close (1) 5:22	consist (1) 8:17
address (1) 12:14	approvals (2) 7:25;18:15	build (3) 21:13,16,19	colleague (1) 21:5	consists (1) 8:12
ADLS (1) 9:4	approve (3) 22:23;24:2,2	built (2) 8:10,16	comment (17) 3:12;5:22,24;13:3, 17,18,19;14:2,6,21; 15:9,24;17:21;19:2,20; 22:24;24:5	construction (8) 9:21,23;10:1,4,15; 11:1;19:23;21:16
advisors (1) 3:15	approved (2) 7:24;14:4	bulk (1) 10:1	comments (14) 3:7,20;6:22;13:5,9, 12;14:10;15:6,13;16:1; 17:11;23:2,16;25:2	consumerpuc@statemnus (1) 23:20
Again (4) 23:4,23;24:4;25:4	approximately (1) 10:4	bullet (1) 12:13	Commerce (6) 3:13;6:2;12:4;15:13; 24:8,16	contact (8) 12:2,5,11;15:21; 17:17;18:1,14,23
agenda (1) 3:9	April (2) 4:2;5:17	businesses (1) 22:5	commercial (1) 4:1	continue (1) 11:25
agreed (1) 19:8	area (4) 9:14;10:24;20:25; 22:3	C	Commission (15) 3:6,14;5:2,4,8,11; 6:3;7:20,24;13:21; 14:1,5;22:22;23:21; 24:1	contribute (1) 20:12
agreement (4) 4:23;18:25;19:5,8	areas (1) 18:4	call (1) 12:17	commitment (2) 21:24;22:6	copy (1) 13:13
agricultural (1) 10:19	around (7) 10:22,23;11:7;12:15; 13:24;16:10;21:21	called (2) 9:3;23:8	communities (1) 9:15	corner (1) 14:16
ahead (1) 15:8	assist (1) 3:14	call-in (1) 19:15	community (1) 10:11	country (1) 10:16
ahold (1) 18:6	associated (1) 18:12	can (22) 3:12,16;5:16;6:12; 9:14;12:17;13:4,6; 14:18;15:8,14;17:22; 18:1,7,25;20:19,20; 23:17,18;24:8,12,23	Commission's (1) 15:12	County (7) 16:6;17:12,16;18:2, 6;19:5,7
aircraft (5) 9:3,8,12,17,17	attended (1) 5:19	capable (1) 24:9	company (1) 7:1	course (4) 13:17;14:7;23:24; 24:12
alert (1) 14:21	attending (1) 15:2	capacity (2) 4:19;8:14	compared (2)	court (2) 13:10;14:25
alluded (1) 11:17	August (4) 3:4;5:24;13:3;23:17	car (1)		cover (1) 12:24
along (2) 10:19;18:23	Austin (1) 5:19			cranes (5)
always (3) 9:10;14:7;23:12				

<p>10:9,11,12,13,17 create (2) 20:11;21:8 cross (1) 10:16 crucial (1) 22:15 currently (2) 4:20;19:21 customers (3) 7:2,3;8:6</p>	<p>disassemble (1) 10:9 discussion (1) 6:23 disposal (1) 16:24 disposed (2) 16:12;17:3 Docket (3) 3:3;15:18;24:19 dockets (1) 24:22 documents (2) 3:16;15:20 done (1) 21:21 down (1) 15:15 download (1) 24:23 drain (1) 10:19 duration (1) 10:5 during (4) 9:2,10,17;17:21</p>	<p>16:7 electricity (2) 7:2,14 electronically (1) 24:24 eliminate (1) 10:18 e-mail (3) 12:13;13:8;23:20 emissions (2) 7:5,10 enable (1) 4:21 encourage (1) 18:23 end (5) 8:16;10:3;14:9; 16:13;25:3 ends (1) 14:15 Energy (17) 3:13,18;4:2,5;6:9,15, 25;7:4,4,19;8:5,7;16:6; 20:7;21:3,14;24:12 enrolled (1) 20:3 ensures (1) 5:4 environment (1) 22:11 Environmental (6) 3:13,15;5:5;13:22; 22:19;23:25 equipment (5) 4:16;11:1;16:8,11; 18:8 especially (1) 21:10 evaluating (1) 10:22 even (3) 5:3;13:19;24:5 evening (3) 6:13;19:19;20:18 everybody (2) 15:6;25:4 everybody's (1) 14:14 everyone (1) 6:14 evolve (1) 18:20 Excellent (1) 20:21 except (1) 9:12 existing (11) 4:8,24;6:6;8:10;10:6, 14;11:14;22:10,14,20, 21 exists (1) 8:11 expect (1)</p>	<p>17:16 experience (1) 21:14 explained (1) 13:2 explaining (1) 6:18 express (2) 20:9;21:6 extend (2) 4:5;8:3</p>	<p>15:4 folks (12) 5:20;11:22;13:4,23; 14:12;15:2;19:14;23:3, 5,11,13,16 following (2) 5:7,10 follow-up (1) 17:25 found (2) 9:15;22:1 foundation (3) 10:23;11:8,18 foundations (1) 4:14 four (2) 7:21;22:2 frame (2) 17:8,12 FRANCO (4) 20:18,21,22;23:1 F-R-A-N-C-O (1) 20:22 fully (1) 11:13 function (7) 14:13,15,18;23:6,7, 14,15 further (2) 12:21;22:13 future (1) 7:9</p>
D	E	F	G	
<p>Dakota (4) 9:7;19:23,25;20:24 Davis (3) 3:10;12:4;24:7 dealerships (1) 22:4 December (1) 7:24 decision (1) 6:4 decommissioned (2) 16:9,22 decommissioning (1) 16:20 definitely (2) 18:14;19:9 degree (1) 19:6 delivered (2) 18:17,18 Department (7) 3:12,17;6:2;12:4; 15:13;24:8,16 describe (3) 3:9,18;9:21 described (1) 8:2 detail (2) 6:10;24:13 details (2) 6:17;18:20 detected (2) 9:13,17 detection (1) 9:3 developer's (1) 22:11 development (1) 5:6 diameter (4) 8:19,19,21,23 different (3) 5:16;6:1;14:14 direct (2) 11:24;12:16 directly (1) 12:13 director (1) 18:24</p>	<p>E-002/WS-09-1197 (1) 3:4 earlier (3) 9:25;11:17;13:2 earned (2) 20:6;21:2 earnings (1) 22:3 East (1) 23:22 economy (4) 20:12;21:9,11,25 eDockets (5) 13:14;15:12,16,17; 24:18 effect (1) 22:5 efficiency (2) 7:4;8:5 efficient (2) 5:7;22:13 efficiently (2) 22:9,20 eight (2) 7:1;10:4 either (4) 14:13,22;17:3;23:6 either/or (1) 14:11 EK (11) 3:1,5;13:1;16:14; 17:14,24;19:13;20:14, 20;23:1;24:6 elaborate (1)</p>	<p>FAA (1) 9:14 FAA-approved (1) 9:5 facilities (1) 24:11 facility (9) 3:21,25;4:4,6,19,25; 5:16;22:20;24:1 facility's (1) 3:25 facing (1) 22:16 fact (1) 21:25 Fairly (1) 5:19 family-sustaining (2) 20:6;21:3 far (1) 21:14 farm (10) 5:3;7:16;8:4,5,10,11, 15,22;20:8,10 farms (2) 7:21;9:6 favored (1) 9:15 feel (3) 12:8;23:24,24 feet (1) 8:25 few (4) 3:23;6:20;12:14; 23:10 fields (1) 10:19 figure (2) 11:10;24:21 filed (1) 5:17 filings (1) 6:1 find (3) 13:21;15:11;18:2 first (5) 12:13;15:9;16:1,18; 19:19 five (1)</p>	<p>gas (1) 7:3 gearboxes (1) 4:9 general (1) 24:10 generate (1) 4:21 generates (1) 22:3 generator (1) 4:23 gets (1) 19:7 gives (1) 15:10 gonna (3) 15:3;21:17,19 good (13) 5:9,20;6:13,17;12:2; 17:23;19:2,19;20:6,18; 21:2,8,18 government (1) 8:8 Great (4) 6:13;18:22;20:21; 22:15 greater (2)</p>	

21:25;24:13 grocery (1) 22:3 group (1) 10:11 guess (1) 16:18 guide (1) 14:5	illustrate (1) 11:10 impact (2) 21:10;22:10 impacts (5) 10:18;13:23;21:22; 22:19;24:1 important (2) 7:16;22:8 Importantly (1) 10:10 improve (1) 4:4 inbound (1) 16:7 include (1) 4:7 includes (1) 4:10 including (1) 8:1 increase (2) 4:18;8:4 increasing (1) 8:6 indicated (2) 4:17;23:3 indicates (1) 8:18 individually (1) 4:9 industry (1) 21:23 industry-leading (1) 20:4 information (23) 3:2,7;5:18,22;6:20; 12:3,3,5,12,19,20;13:6, 15;15:11,11,14,15,21, 23;17:11,21;24:6,17 innovative (1) 7:5 in-person (1) 5:18 input (1) 24:21 inside (1) 11:14 install (2) 9:2,11 instead (1) 9:8 intend (1) 9:1 intended (1) 17:12 intention (1) 10:3 interconnection (4) 4:22,23;22:14,22 interested (3) 12:21;23:9;25:1 into (2)	6:16;13:5 investment (1) 21:25 J job (1) 6:18 K kind (2) 14:5;16:20 kinds (1) 12:2 L labor (1) 21:12 landowner (1) 8:8 landowners (1) 13:24 land-use (1) 18:5 Langan (9) 3:18;6:8,11,14; 16:16;17:18;18:9;19:2; 24:12 larger (1) 4:8 last (2) 5:18;13:16 later (1) 5:23 law (1) 5:8 lead (1) 20:5 leader (1) 7:4 leads (1) 21:24 learn (1) 20:4 leave (1) 12:17 length (2) 8:19,21 lengthened (1) 8:8 level (1) 22:6 levels (1) 7:11 life (2) 4:5;8:4 light (1) 9:10 lighting (2) 9:3,5 lights (4)	9:8,12,13,16 line (1) 17:15 lines (1) 18:23 list (2) 11:25;15:19 little (7) 3:17;5:15,25;6:9,25; 9:25;14:14 LIUNA (4) 19:22,25;20:2,23 live (2) 13:24;20:25 local (11) 8:8;20:12;21:8,9,12, 20,22,24;22:1,7,18 locally (1) 22:2 location (1) 11:19 locations (1) 4:13 long (3) 8:20;16:10;21:1 longer (1) 8:25 look (3) 15:3;18:10;24:25 looking (1) 10:18 looks (3) 15:2;16:1;23:10 lot (2) 15:5;21:21 lower (3) 7:10,11;14:16 LUCAS (3) 20:18,21,22 L-U-C-A-S (1) 20:22 M mail (3) 11:24;13:8;23:20 mailing (1) 11:25 majority (1) 10:1 manager (1) 20:23 many (2) 20:24;21:14 mark (1) 7:9 marketing (1) 19:22 materials (1) 18:16 math (1) 8:24 Matt (13)	3:18;6:8,11,14;13:1; 16:15,16;17:14,18; 18:2,9;19:2;24:12 maximize (2) 21:9;22:18 maximum (3) 10:22;11:7;22:6 may (5) 5:8,11;6:22;9:24; 16:24 maybe (1) 14:14 means (2) 11:24;14:2 meantime (1) 24:5 mechanical (1) 4:16 mechanics (1) 4:11 meeting (7) 3:2;5:18,22;11:23; 12:7;25:3,6 megawatts (4) 4:20,21,24;8:14 members (4) 17:4;19:24;20:3,24 mentioned (1) 6:21 meter (1) 8:24 midwest (1) 7:22 might (3) 9:4;16:25;17:6 mike (3) 14:24;19:17;20:15 million (2) 7:2,3 mine (2) 12:5;14:15 minimal (1) 22:10 minimize (1) 22:19 Minnesota (10) 5:19;7:20,22;9:6; 19:22,24;20:24,25; 23:21,22 minor (1) 9:24 minute (1) 23:9 minutes (1) 15:4 missing (1) 17:6 mngov/puc (2) 15:16;24:17 model (2) 8:12,18 modify (2) 5:12,12
H				
hand (1) 25:1 handful (1) 15:2 hands-on (1) 20:5 happen (1) 21:17 happy (1) 12:9 hear (3) 6:12;9:4;20:19 heard (1) 15:7 Hearing (1) 17:9 heavily (1) 21:15 help (3) 14:5;15:23;18:7 helpful (2) 13:20;18:9 hesitate (1) 12:8 higher (1) 22:3 highlight (1) 22:8 hiring (1) 21:22 hit (1) 7:9 Hopefully (2) 11:22;24:20 hours (1) 9:11 hub (2) 11:2,15 hubs (1) 16:22 human (2) 13:22;23:25 Hutchens (5) 19:15,16,18,21;21:6 H-U-T-C-H-E-N-S (1) 19:21				
I				
idea (1) 8:2				

<p>modifying (1) 5:14</p> <p>money (2) 8:6;22:2</p> <p>months (1) 10:4</p> <p>more (7) 6:9;20:7;25;13:25; 22:2,12;25:2</p> <p>most (1) 19:9</p> <p>move (3) 10:17;12:1;16:23</p> <p>Mower (6) 16:6;17:12,16;18:2, 6;19:5</p> <p>much (3) 20:12;21:24;24:13</p> <p>myself (1) 21:13</p>	<p>4:13;18:3</p> <p>notice (2) 11:23;13:15</p> <p>November (1) 4:1</p> <p>number (2) 12:16;24:19</p> <p>numbers (2) 8:18;24:21</p> <p>number's (1) 15:18</p>	<p>overall (1) 4:19</p> <p>ownership (1) 3:24</p>	<p>plans (1) 21:11</p> <p>played (1) 7:16</p> <p>Pleasant (9) 3:2,8,21;6:15;7:15, 23;20:8,9;21:6</p> <p>please (11) 6:24;7:7,18;8:9; 9:20;11:9,21;12:8; 14:24;18:6;20:16</p> <p>pm (1) 25:6</p> <p>point (5) 4:22;14:1;22:14,21; 23:12</p> <p>portfolio (1) 7:15</p> <p>positive (1) 21:10</p> <p>possibility (2) 18:16,21</p> <p>post-meeting (1) 6:1</p> <p>potential (2) 13:22;23:25</p> <p>practices (1) 21:23</p> <p>preparation (1) 9:25</p> <p>prepare (1) 3:15</p> <p>presentation (6) 6:19;13:2,14,16; 14:9,10</p> <p>presented (1) 23:19</p> <p>preservation (1) 5:6</p> <p>press (1) 14:20</p> <p>previous (1) 19:25</p> <p>probably (1) 16:9</p> <p>process (7) 3:10;6:5,6;9:21; 10:2;12:2;14:6</p> <p>produced (1) 8:7</p> <p>production (1) 4:19</p> <p>program (2) 20:1,2</p> <p>project (26) 3:3,8,19;6:16,23; 10:8,12;11:6,25;12:13, 16,21;13:19;17:5,20; 20:10,25;21:7,9,18, 19;22:9,18;23:24; 24:13</p> <p>projects (5) 18:10;20:7;21:4,15,</p>	<p>17</p> <p>prompts (1) 24:20</p> <p>proposal (6) 4:3,13;6:19;9:19; 10:20;13:23</p> <p>proposed (2) 3:24;24:13</p> <p>proposing (4) 6:15;8:15;9:22; 10:16</p> <p>provide (16) 3:6;5:8;6:9;7:13; 12:11,18;13:4,12,20; 14:22;15:5,12;16:20; 17:11;24:12,22</p> <p>provides (2) 15:14;24:16</p> <p>providing (2) 8:7;15:24</p> <p>public (10) 3:2,5;5:18,21;7:20; 10:13;15:9;18:24; 23:21;25:3</p> <p>PUC (1) 3:3</p> <p>put (2) 14:2;17:11</p>	
<p style="text-align: center;">N</p>	<p style="text-align: center;">O</p>	<p style="text-align: center;">P</p>		<p style="text-align: center;">Q</p>	
<p>nacelle (4) 4:10;9:9;11:12,14</p> <p>name (10) 3:4;14:25;16:4; 19:16,20;20:15,16,17, 22;24:5</p> <p>name's (1) 6:14</p> <p>natural (1) 7:3</p> <p>navigate (2) 9:14;13:7</p> <p>near (1) 20:25</p> <p>need (8) 11:7;14:20;15:3,23; 16:19;17:1;18:4,13</p> <p>needing (1) 19:5</p> <p>needs (1) 17:10</p> <p>new (10) 4:25;5:3,16;8:5; 10:8;11:4;18:16;19:4; 21:16;22:12</p> <p>next (10) 6:24;7:7,18;8:9; 9:20;11:9,21;19:14,16; 20:14</p> <p>night (1) 5:18</p> <p>nighttime (1) 9:10</p> <p>none (1) 17:9</p> <p>nonlocal (1) 21:22</p> <p>North (4) 9:6;19:22,25;20:24</p> <p>note (2)</p>	<p>occur (1) 10:24</p> <p>October (2) 3:22;6:5</p> <p>off (4) 9:12,18;19:19;21:3</p> <p>offhand (1) 17:2</p> <p>office (1) 18:6</p> <p>offline (1) 17:16</p> <p>off-site (2) 16:23;17:3</p> <p>one (5) 5:3,10;7:22,23;24:19</p> <p>online (8) 3:11;13:7,7,10; 14:12;23:5,18,19</p> <p>only (3) 9:16;15:2,4</p> <p>open (4) 14:24;15:25;19:17; 20:16</p> <p>opening (1) 8:2</p> <p>operating (1) 8:4</p> <p>operation (2) 3:22;4:1</p> <p>operational (2) 8:11,16</p> <p>opportunities (2) 20:11;21:8</p> <p>opportunity (5) 8:3;15:7;19:20; 22:24;23:14</p> <p>order (2) 10:6,14</p> <p>Out (7) 9:6;12:8;13:21;14:1; 18:8;19:7;24:21</p> <p>outbound (1) 16:8</p> <p>outdated (1) 22:12</p> <p>over (5) 6:8;7:9;18:20;19:24; 21:2</p>	<p>pad (1) 18:18</p> <p>part (4) 9:18;11:5;16:18; 19:3</p> <p>participated (1) 25:5</p> <p>participating (1) 25:3</p> <p>participation (1) 19:6</p> <p>particular (1) 22:9</p> <p>particularly (2) 16:8;22:14</p> <p>parties (1) 19:9</p> <p>past (2) 21:15;22:1</p> <p>path (1) 7:11</p> <p>Paul (1) 23:22</p> <p>payments (1) 8:8</p> <p>people (1) 15:5</p> <p>percent (3) 7:10,12,14</p> <p>period (7) 3:12;5:23,24;13:4; 15:9;17:21;24:5</p> <p>permit (17) 3:22,23;4:3;5:1,3,9, 12,13,14;6:7;8:1;14:3; 16:18;19:4;22:23;24:2, 10</p> <p>permits (1) 24:10</p> <p>permitting (2) 18:12,15</p> <p>person (3) 16:1;19:14;20:15</p> <p>personal (1) 21:14</p> <p>phone (6) 11:22;12:16;14:12, 19,20;23:15</p> <p>pieces (1) 6:20</p> <p>place (3) 5:11;19:1;23:22</p> <p>placed (1) 11:5</p> <p>plan (3) 7:24;16:20,21</p>	<p>participated (1) 25:5</p> <p>participating (1) 25:3</p> <p>participation (1) 19:6</p> <p>particular (1) 22:9</p> <p>particularly (2) 16:8;22:14</p> <p>parties (1) 19:9</p> <p>past (2) 21:15;22:1</p> <p>path (1) 7:11</p> <p>Paul (1) 23:22</p> <p>payments (1) 8:8</p> <p>people (1) 15:5</p> <p>percent (3) 7:10,12,14</p> <p>period (7) 3:12;5:23,24;13:4; 15:9;17:21;24:5</p> <p>permit (17) 3:22,23;4:3;5:1,3,9, 12,13,14;6:7;8:1;14:3; 16:18;19:4;22:23;24:2, 10</p> <p>permits (1) 24:10</p> <p>permitting (2) 18:12,15</p> <p>person (3) 16:1;19:14;20:15</p> <p>personal (1) 21:14</p> <p>phone (6) 11:22;12:16;14:12, 19,20;23:15</p> <p>pieces (1) 6:20</p> <p>place (3) 5:11;19:1;23:22</p> <p>placed (1) 11:5</p> <p>plan (3) 7:24;16:20,21</p>	<p>plans (1) 21:11</p> <p>played (1) 7:16</p> <p>Pleasant (9) 3:2,8,21;6:15;7:15, 23;20:8,9;21:6</p> <p>please (11) 6:24;7:7,18;8:9; 9:20;11:9,21;12:8; 14:24;18:6;20:16</p> <p>pm (1) 25:6</p> <p>point (5) 4:22;14:1;22:14,21; 23:12</p> <p>portfolio (1) 7:15</p> <p>positive (1) 21:10</p> <p>possibility (2) 18:16,21</p> <p>post-meeting (1) 6:1</p> <p>potential (2) 13:22;23:25</p> <p>practices (1) 21:23</p> <p>preparation (1) 9:25</p> <p>prepare (1) 3:15</p> <p>presentation (6) 6:19;13:2,14,16; 14:9,10</p> <p>presented (1) 23:19</p> <p>preservation (1) 5:6</p> <p>press (1) 14:20</p> <p>previous (1) 19:25</p> <p>probably (1) 16:9</p> <p>process (7) 3:10;6:5,6;9:21; 10:2;12:2;14:6</p> <p>produced (1) 8:7</p> <p>production (1) 4:19</p> <p>program (2) 20:1,2</p> <p>project (26) 3:3,8,19;6:16,23; 10:8,12;11:6,25;12:13, 16,21;13:19;17:5,20; 20:10,25;21:7,9,18, 19;22:9,18;23:24; 24:13</p> <p>projects (5) 18:10;20:7;21:4,15,</p>	<p>quarter (1) 10:2</p> <p>quick (1) 3:17</p> <p>quite (1) 21:1</p>
				<p style="text-align: center;">R</p>	
				<p>radius (3) 10:23,25;11:7</p> <p>raised (1) 25:1</p> <p>raise-your-hand (2) 23:7,14</p> <p>rated (1) 4:20</p> <p>reach (1) 12:8</p> <p>reading (1) 12:22</p> <p>real (1) 22:5</p> <p>really (5) 7:16;9:15;12:2; 21:18,23</p> <p>reassemble (1) 10:9</p> <p>receive (1) 4:12</p> <p>received (2) 3:22;11:23</p>	

<p>Recently (1) 7:9</p> <p>recognized (1) 7:4</p> <p>record (4) 13:5,13;15:20;24:23</p> <p>records (1) 15:20</p> <p>recruit (1) 21:12</p> <p>recycled (1) 17:3</p> <p>red (3) 9:8,10,13</p> <p>reduce (1) 10:18</p> <p>reductions (1) 7:5</p> <p>referred (1) 9:4</p> <p>reflect (1) 4:3</p> <p>regarding (1) 19:10</p> <p>region (1) 21:4</p> <p>regional (3) 20:23;21:11,25</p> <p>rely (1) 21:15</p> <p>relying (1) 21:19</p> <p>remain (3) 4:15,24;11:19</p> <p>remarks (1) 8:2</p> <p>remind (2) 23:5,16</p> <p>remote-access (1) 5:21</p> <p>remove (1) 10:6</p> <p>removed (4) 11:3;16:12;17:3,7</p> <p>renewable (3) 20:7;21:3,14</p> <p>replace (2) 10:7;11:14</p> <p>replaced (4) 11:12,13,16;16:12</p> <p>replacing (4) 4:8,10,15;22:12</p> <p>reporter (2) 13:10;14:25</p> <p>repower (13) 4:3,7,25;6:4,10,15; 8:25;9:2;11:6;16:8; 20:8,10;21:7</p> <p>repowered (2) 8:15,22</p> <p>repowering (2) 3:3;7:21</p> <p>representative (1)</p>	<p>19:22</p> <p>represents (1) 19:23</p> <p>requested (2) 22:23;24:3</p> <p>requirements (1) 19:4</p> <p>research (3) 20:23;21:21;22:1</p> <p>resources (3) 5:7;22:10,21</p> <p>responses (1) 12:15</p> <p>restaurants (1) 22:4</p> <p>restoration (1) 7:6</p> <p>restrictions (1) 18:5</p> <p>result (1) 4:18</p> <p>reused (1) 17:4</p> <p>review (8) 3:10,13,18;5:15,25; 6:5;12:1;24:23</p> <p>reviewed (1) 9:19</p> <p>revoke (1) 5:13</p> <p>Rich (3) 3:10;12:4;24:7</p> <p>right (6) 6:12;19:18;20:19; 21:19;22:16;23:3</p> <p>right-hand (3) 14:16;15:22;24:6</p> <p>ripple (1) 22:5</p> <p>roads (2) 10:13,14</p> <p>road-use (3) 18:25;19:5,8</p> <p>role (2) 7:16;19:25</p> <p>rotor (4) 8:19,20,21,23</p> <p>rotors (1) 4:9</p> <p>rubber-tire (1) 10:13</p> <p>rule (1) 5:7</p> <p>Rules (2) 5:8,10</p>	<p>11:11,16,18,19,19</p> <p>saving (1) 8:6</p> <p>saying (1) 11:7</p> <p>schedule (2) 5:25;17:1</p> <p>SCOTT (24) 3:1,5;6:12,12,17,21, 24;8:1;9:20;11:9,17; 12:3,24;13:1;16:14,16; 17:9,14,24;19:13; 20:14,20;23:1;24:6</p> <p>Scott's (1) 6:20</p> <p>screen (6) 13:6;14:17;15:10,22; 23:19;24:7</p> <p>second (2) 10:2;14:3</p> <p>select (1) 15:16</p> <p>selected (1) 10:12</p> <p>September (1) 6:3</p> <p>serve (1) 7:2</p> <p>service (3) 4:5;7:1;13:7</p> <p>set (2) 12:18;14:14</p> <p>Seventh (1) 23:21</p> <p>share (2) 6:21;10:10</p> <p>sharing (1) 12:19</p> <p>SHEEDY (5) 16:4,5;18:1,22;19:11</p> <p>S-H-E-E-D-Y (1) 16:5</p> <p>side (2) 15:22;24:7</p> <p>Simple (1) 14:4</p> <p>simply (1) 11:13</p> <p>site (10) 4:3;5:9;8:1;9:24; 10:15;14:3;16:18; 18:19;19:4;22:23</p> <p>six (1) 10:4</p> <p>size (1) 11:19</p> <p>skilled (2) 21:12,20</p> <p>skills (2) 20:4,5</p> <p>slide (9) 6:24;7:7,18;8:9; 9:20;11:9,21;13:16;</p>	<p>15:10</p> <p>slides (1) 5:23</p> <p>socioeconomic (1) 22:18</p> <p>solar (2) 21:1,16</p> <p>sometime (2) 6:2,4</p> <p>sort (1) 18:20</p> <p>southern (1) 20:25</p> <p>southwestern (1) 9:6</p> <p>space (1) 18:11</p> <p>speak (5) 14:11;15:1;16:7; 23:4,13</p> <p>specific (1) 17:1</p> <p>specifics (1) 6:10</p> <p>spell (2) 14:25;20:16</p> <p>spend (1) 22:2</p> <p>spring (1) 9:24</p> <p>St (1) 23:22</p> <p>staff (1) 13:21</p> <p>staging (3) 16:7;18:4,8</p> <p>star (3) 14:20;23:8,15</p> <p>start (1) 9:23</p> <p>state (4) 9:19;14:24;19:24; 20:16</p> <p>states (1) 7:1</p> <p>state's (1) 12:1</p> <p>static (1) 9:8</p> <p>statute (1) 5:10</p> <p>stay (2) 11:16,17</p> <p>stays (1) 11:11</p> <p>steps (1) 18:8</p> <p>still (3) 4:23;7:25;23:10</p> <p>stocked (1) 11:4</p> <p>stockpile (1) 18:19</p>	<p>stored (1) 11:4</p> <p>stores (1) 22:4</p> <p>storm (1) 7:6</p> <p>straight (2) 18:18,18</p> <p>strong (2) 20:9;21:6</p> <p>strongly (1) 22:17</p> <p>submit (2) 17:20;23:18</p> <p>submitted (1) 23:17</p> <p>Suite (1) 23:22</p> <p>summary (1) 6:6</p> <p>support (3) 20:9;21:6;22:17</p> <p>sure (6) 12:15;15:6;17:5; 18:2,24;23:13</p> <p>surrounding (1) 22:11</p> <p>suspend (1) 5:12</p> <p>sustainable (1) 5:6</p> <p>swept (1) 8:20</p> <p>system (8) 9:4,5,11,16;13:14; 15:12,17;24:18</p> <p>systems (1) 10:19</p>
T				
			<p>talk (1) 13:11</p> <p>talking (1) 5:13</p> <p>team (3) 17:5,20;18:4</p> <p>technical (1) 3:15</p> <p>technically (1) 5:1</p> <p>technology (3) 4:4;7:5;8:5</p> <p>telephone (1) 23:8</p> <p>temporary (2) 10:21,25</p> <p>tend (1) 22:1</p> <p>terms (2) 10:21;16:24</p> <p>territory (1) 7:1</p>	

Thanks (3) 16:16,17;25:4	type (2) 9:16;15:17	verbally (1) 13:9	10:21;11:1	5:20
thereafter (1) 9:2	U	versus (1) 21:22	written (4) 5:24;13:3,5;23:16	2
three (4) 7:22;11:15;12:6;22:2	ultimately (1) 7:13	Vestas (2) 8:12,17	X	2 (1) 7:3
three-year (1) 20:3	union (1) 19:23	via (1) 11:24	Xcel (11) 3:18;4:2,17;6:9,14,25;7:19;16:6;17:10;21:11;24:12 xcelenergy.com/pleasantvalley (1)	2.0 (1) 8:14
throughout (1) 21:4	unions (1) 21:12	vision (3) 7:8,13,17	12:23	2.0-megawatt (1) 8:13
tile (1) 10:19	unmute (1) 16:2	voicemail (1) 12:17	Xcel's (1) 21:18	2.2-megawatt (1) 8:17
timeline (2) 5:15;9:22	unmuted (1) 16:3	W	Y	200 (2) 4:20,24
timelines (1) 16:21	up (5) 12:18;14:14,16;15:10,25	wages (3) 20:6,6;21:3	yards (1) 18:11	2005 (2) 7:11,12
times (2) 3:23;22:2	update (1) 16:19	wait (1) 23:9	year (6) 7:13;8:16;10:3;15:18,18;24:18	2010 (1) 3:23
timing (1) 17:7	updates (1) 12:1	way (2) 18:17;21:19	Yep (1) 20:20	2015 (2) 4:1;8:11
together (1) 11:15	upgrade (2) 4:4,12	web (1) 23:5	yesterday (1) 5:20	2020 (3) 7:9,19,25
tonight (12) 3:6;5:21;11:23;12:20,25;13:2,9,11;15:3;21:5;22:25;25:4	upgrades (1) 4:20	Webex (1) 14:11	yield (1) 4:5	2025 (4) 8:16;9:24;10:2;16:13
tonight's (2) 3:9;12:7	upgrading (1) 22:19	webinar (1) 11:23	you-can-raise-your-hand (1) 14:18	2030 (1) 7:12
top (4) 9:9;10:7;11:3,5	upper (1) 7:21	website (9) 12:18;13:8;15:13,16;18:3;23:18,19;24:16,20	Z	2050 (1) 7:13
top-of-tower (1) 10:9	use (9) 5:7;10:8,13;14:13;15:4;22:9,13,21;23:6	welcome (2) 3:1;13:18	0	220 (1) 4:21
touch (2) 12:12;19:9	used (2) 9:7,16	whatnot (1) 4:11	zoning (1) 18:5	3
tower (5) 10:7;11:3,5,8,18	user (1) 19:15	what's (1) 13:20	09 (2) 15:17;24:19	3 (3) 14:20;23:8,15
towers (2) 4:14;11:20	using (2) 14:12;22:6	whole (1) 4:10	1	3.6 (1) 7:2
townships (1) 19:7	Utilities (3) 3:5;7:20;23:21	Wind (24) 3:3,8,21;5:2;6:7,16;7:4,15,16,21;8:4,10,11,15,22;9:5;20:8,10;21:1,7,16;22:10,12;24:11	1/2 (1) 8:24	31st (3) 5:24;13:3;23:17
trainer (1) 20:1	utilize (2) 21:12;22:20	within (1) 10:24	100 (5) 4:8;7:14;8:12,17;11:20	350 (1) 23:22
transcribing (1) 13:11	utilizing (1) 22:6	without (1) 18:19	100-meter (1) 8:20	4
transcript (1) 15:1	V	wondered (1) 16:6	110-meter (1) 8:23	400-foot (3) 10:23,24;11:7
translates (1) 8:22	V100 (3) 8:12,13,18	work (3) 9:25;16:5;21:11	1197 (2) 15:19;24:19	5
traveling (1) 21:15	V110 (2) 8:17,23	worked (2) 19:7;21:1	121 (1) 23:21	50 (1) 7:9
trouble (1) 15:23	Valerie (17) 16:2,2,4,4,14,17,25;17:15,17,22,24;18:1,10,22;19:3,11,13	workers (8) 20:11;21:8,13,16,20,24;22:1,7	13,000 (1) 19:24	50-meter (1) 8:21
turbine (9) 4:4;8:13;9:9;10:15,17,17,22,23;18:19	V-A-L-E-R-I-E (1) 16:5	working (1) 20:7	16 (1) 8:24	55 (1) 8:23
turbines (8) 4:8,12,14;8:13,14,18;22:12,13	Valley (9) 3:2,8,21;6:16;7:15,23;20:8,9;21:7	works (1) 18:24	17th (1) 3:4	55101 (1) 23:22
turn (5) 6:8;9:12,14;12:15,25	valued (1) 14:7	workspace (2)	19 (1)	6
two (2) 19:14;23:10				6:37 (1) 25:6

8				
80 (1) 7:12				