

ARGONNE NATIONAL LABORATORY (ANL)

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WIND ENERGY DEVELOPMENT
PROGRAMMATIC ENVIRONMENTAL IMPACT STATEMENT
SIOUX FALLS, SOUTH DAKOTA
PUBLIC COMMENT MEETING

+ + + + +

6:30 p.m.
Tuesday

+ + + + +

September 30, 2008

+ + + + +

International East Meeting Room
Holiday Inn, Sioux Falls City Centre
100 West 8th Street
Sioux Falls, South Dakota

JOHN HAYSE, ANL, Facilitator

ALSO PRESENT:

NICK STAS, Western Area Power Administration
LLOYD JONES, U.S. Fish and Wildlife Service
KARIN SINCLAIR, National Renewable Energy
Laboratory

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1 P R O C E E D I N G S

2 MR. HAYSE: Okay. It's looks like
3 this microphone's working. So anyway, I'd
4 like to go ahead and get started.

5 My name is John Hayse. I work for
6 Argonne National Laboratory as an
7 environmental scientist. And Argonne is a
8 Department of Energy laboratory, and one of
9 the things that we do at Argonne is we prepare
10 environmental documentation such as
11 environmental impact statements, and so
12 Argonne is basically contracted through
13 Western Area Power Administration and Fish and
14 Wildlife Service to prepare the environmental
15 impact statement that we're going to talk
16 about tonight.

17 So with that brief introduction
18 there, one of the first orders of business is
19 I would like to ask everybody to please check
20 your cell phones as a courtesy to our speakers
21 and either turn them off or make sure they're
22 in silent or vibrate mode. Okay.

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1 And welcome then to our public
2 scoping meetings for the Upper Great Plains
3 wind energy programmatic environmental impact
4 statement. And -- let's see if the slides
5 work here -- I just have a brief slides.
6 Basically the agenda here is we have some
7 introductory material to talk about, EISs in
8 general and the scoping process in particular.

9 Then we have three presentations
10 planned for you tonight: one from Western
11 Area Power Administration, one from the U.S.
12 Fish and Wildlife Service, and one from the
13 National Renewable Energy Lab to talk about
14 wind energy technology in particular. And
15 then after that we'll have a brief question
16 and answer period, and then we will move into
17 asking people who would like to provide
18 comments about this particular environmental
19 impact statement process to come up and
20 provide those comments for us.

21 Okay. So just as an overview then
22 of the EIS process, first off, why is this EIS

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1 being prepared? And basically NEPA, the
2 National Environmental Policy Act, requires
3 that an environmental impact statement be
4 prepared when a federal agency is undertaking
5 a major action of some type, and major action,
6 you know, has certain definitions that go with
7 it, but a major action that has a potential
8 for significant impacts to the environment.

9 Western Area Power Administration,
10 which I'll refer to as "Western", and the U.S.
11 Fish and Wildlife Service, which I'll refer to
12 as the "Service" on and off tonight, have
13 determined that a programmatic EIS is
14 appropriate to evaluate some wind energy
15 programs that they're considering
16 implementing, or developing and implementing
17 for their particular areas of interest.

18 Now as far as EISs go, what is a
19 programmatic EIS? And the idea of behind a
20 programmatic EIS is that it is a process to
21 evaluate the environmental impacts that could
22 occur as the result of implementing a

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1 particular type of program, or implementing
2 some sort of national policy as opposed to
3 just doing an environmental impact statement
4 to look at the effects of a particular small
5 project, or, you know, a particular project on
6 the environment.

7 So it's meant to look at the
8 potential impacts from a program or a policy
9 implementation by a federal agency. So it
10 does not evaluate specific projects, but it
11 considers the generic impacts that could occur
12 from the types of projects that may result
13 from implementation of a program or policy.

14 One of the other things that's
15 planned for this particular EIS, and is often
16 done in programmatic EISs, is to identify
17 possible mitigation measures that could be
18 implemented as part of the program to reduce
19 the potential for environmental impacts.

20 What is the proposed action in this
21 particular case? Basically Western and the
22 Service are proposing to establish a

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1 comprehensive program to evaluate the
2 implementation of proposed wind energy
3 projects that will either connect to Western's
4 transmission grid system that they're
5 responsible for, or that would be built on
6 wetland or grassland easements that are
7 managed by the U.S. Fish and Wildlife Service,
8 and both of these are being considered, in
9 particular for the area of the Upper Great
10 Plains Region.

11 Now this program would identify
12 mitigation strategies, standard construction
13 practices, and also best management practices
14 that could be implemented to reduce the
15 potential for environment impacts.

16 One of the things that's done in
17 environmental impact statements is to consider
18 alternatives to the proposed action. And in
19 this particular case there will be at least
20 three alternative actions that could occur.
21 First, the proposed action that I just spoke
22 about a moment ago.

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1 Second, there will be -- we will
2 also consider in this impact statement the
3 potential effects of a no action alternative.

4 Now no action does not necessarily mean that
5 nothing happens, but it means that we would
6 look at the potential impacts if the proposed
7 program did not go forward and things continue
8 the way that they were right now.

9 Basically, the existing situation
10 is that as wind energy projects are proposed,
11 environmental evaluations for those projects
12 are done on an ad hoc basis, or individually
13 for each of those projects. And the idea
14 behind this proposed action then is that it
15 would allow some streamlining of that overall
16 environmental evaluation process.

17 Finally, additional alternatives
18 may also be added and evaluated in the EIS
19 based upon input that we get during the public
20 scoping period. So input that we gather from
21 people at meetings like this.

22 Now one alternative that is being

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1 considered as well is that Western could
2 implement the part of the proposed action that
3 applies to them, the Service could decide to
4 do something different than the regular
5 proposed action that I spoke about, such as
6 not allowing wind energy to proceed on the
7 wetland and grassland easements that they
8 manage. So you can see that there are various
9 ways that this program could be put together,
10 and those are the kind of alternatives we will
11 consider in the EIS.

12 What is scoping? Scoping is the
13 part of the NEPA process by which we gather,
14 or the agencies gather input from the public,
15 from other federal agencies, from non-
16 governmental organizations, and other
17 interested parties with regards to the action
18 that's being considered.

19 So we would gather information that
20 pertains to the proposed action, the
21 alternatives that we're going to consider,
22 what are some of the significant issues that

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1 we should analyze in the EIS, what are
2 possible mitigation measures to reduce
3 potential for environmental impacts. Maybe
4 there are people in the audience, or members
5 of those various groups that have data or
6 other types of information that would help
7 inform the decision that agencies make with
8 regard to the proposed action, or one of the
9 alternatives.

10 And finally, we're interested in
11 hearing from individuals and other agencies or
12 organizations about the specific concerns that
13 they have regarding the proposed action. So
14 in this case, development of wind energy that
15 would connect to Western's transmission grid,
16 or development of wind energy projects on
17 wetland or grassland easements that the Fish
18 and Wildlife Service manages.

19 Now we have a number of public --
20 we have a number of opportunities for the
21 public to provide input to this process.
22 First off we have the public scoping, which is

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1 part of what this meeting is about, and that
2 public scoping period runs -- started on
3 September 11, and it will run through November
4 10. So through November 10 we will be
5 actively trying to collect information,
6 comments, and so forth from the public and
7 other interested parties.

8 Some time during the fall or the
9 winter of 2009, the draft programmatic
10 environmental impact statement should become
11 available to the public for their review. And
12 we would invite comments from people that are
13 interested in looking at that, seeing what the
14 analyses are, and so forth, and getting
15 information back to us relative to that draft
16 EIS. And then finally there's also an
17 opportunity to see what results from this
18 process in the final EIS, which is expected to
19 be prepared probably around the summer of
20 2010.

21 Now there's a number of ways that
22 the public can gather information related to

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1 this project. We have a project website
2 that's been established, and the URL for that
3 website is available on the screen here. But
4 that provides access to a lot of information
5 about the EIS process.

6 It gives the opportunity to learn
7 more about wind energy resources and
8 technologies, we will post EIS related
9 documents that are prepared so that they're
10 available to the public as well, it has
11 information about the project's scheduled and
12 updates about the project, and then there is
13 also online comment forms that can be used to
14 provide comments to us, and also you can sign
15 up for e-mail notification so that you will be
16 informed when there is some sort of
17 substantial progress or an update to the
18 overall project.

19 Okay. So with that, I'd like to
20 introduce tonight's speakers. First will be
21 Nick Stas, here to my right. Nick is with
22 Western Area Power Administration here in the

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1 Upper Great Plains Region, Customer Service
2 area. Lloyd Jones, at the far end of the
3 table to my right, is with the U.S. Fish and
4 Wildlife Service's Division of Refuges. And
5 Karin Sinclair is with the National Renewable
6 Energy Lab, in particular she works with the
7 Wind Technology Center at NREL, as we refer to
8 that laboratory.

9 So with that I'd like to invite
10 Nick to come up and tell us a little bit about
11 Western.

12 MR. STAS: Thank you, John.

13 And, ladies and gentlemen, thank
14 you for coming on this beautiful fall day in
15 Sioux Falls, South Dakota, particularly with
16 the Twins and White Sox game going on. I
17 might give you an update as we go through
18 this.

19 My goal is to give you some general
20 information about Western to show how this
21 project on the programmatic wind EIS will fit
22 in. And also to give you some places for

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1 additional information.

2 I'd like to introduce a few of my
3 colleagues who are out in the audience. First
4 of all, we're very pleased to have Mr. Ed
5 Weber, who's the manager of Transmission
6 Planning. He's back here. Dirk Shulund was
7 here; he might have -- he stepped out a
8 minute. He's a NEPA analyst in our office.
9 And also we've got a customer service
10 representative from the South Dakota office,
11 Mr. Greg Vaselar. And a key person on this
12 particular EIS, Mr. Mark Wieringa from our
13 corporate service office.

14 We'll be glad to talk to folks
15 after the presentations are over, and I was
16 told before this started that bureaucrats and
17 wind at a meeting sometimes is a bad
18 combination, but hopefully that we'll get
19 through this quickly and move on to some good
20 discussion.

21 Okay. Who is Western? Western was
22 part of the Department of Energy and just like

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1 our partners, Argonne, as John mentioned, they
2 have a lot of expertise on analyzing
3 environmental impacts, and actually did a
4 programmatic wind EIS for the Bureau of Land
5 Management on all their lands, in our western
6 lands. So we're very pleased to have them.

7 We very -- also very pleased to
8 have with us as a joint lead the U.S. Fish and
9 Wildlife Service. John mentioned we were
10 doing these projects one at a time, and one of
11 the issues that we needed to look at in a
12 larger view is the issue of migratory birds.
13 It's a key issue. So we're very pleased to
14 have U.S. Fish and Wildlife Service partnering
15 with us.

16 As I mentioned, we were formed in
17 '77. A lot of the pieces that were put
18 together were from the Bureau of Reclamation.

19 We market the federal hydropower from the
20 dams and the Upper Great Plains south of the
21 Missouri River and the Big Horn River.

22 We're one of several power

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1 marketing administrations in the Department of
2 Energy. Just to give you some context,
3 Bonneville Power is in the Pacific Northwest,
4 Oregon and Washington, Idaho; Southeastern
5 Power is, of course, in the southeastern part
6 of the country; and Southwestern Power, their
7 headquarters is out of Oklahoma.

8 Okay. The Upper Great Plains
9 Region, this is this area right here. So when
10 we're talking Upper Great Plains Region, this
11 is what we're talking about. This is actually
12 defined by the Pick-Sloan legislation, so
13 this is the area that we'll be dealing with.
14 And there's a map that shows where our
15 facilities are in relation to this region.

16 As I mentioned, we market federal
17 hydropower. And annually it's, on a normal
18 water year, around \$250 million worth of
19 wholesale power a year. In the Upper Great
20 Plains Region -- well, this is all of Western,
21 it has 17,000 miles of high voltage lines in
22 over 15 states. And we deliver wholesale

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1 power with firm power contracts to our
2 preference customers. The preference
3 customers are those folks that are rural
4 electrics, municipalities, co-ops, other
5 government agencies. Today we have 671
6 customers, and also we have an allocation to
7 Native American tribes.

8 We're funded by Congressional
9 appropriations; however, we recover the cost
10 and pay back to the Treasury the cost, the
11 loans that were made to build the projects,
12 the capital investment, as well as the
13 transmission system and the -- we also have to
14 comply with the FERC orders, 888 and 889, and
15 we'll talk about this later. These are
16 sideboards on how we can interconnect folks
17 through our system. We were directed by the
18 Department of Energy to comply with the open
19 access transmission.

20 This is our mission, essentially.
21 We market the hydropower, transmit it, control
22 the energy grid out of our Watertown

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1 operations office here in South Dakota, manage
2 a couple interties, provide open access;
3 that's what I talked about for the FERC
4 requirements, and we're evolving to meet the
5 changing power generation and transmission
6 environment of which wind energy is going to
7 be an important part.

8 And talk about the power grid:
9 Going from the generation, whether it's
10 hydropower or wind, fossil fuels, through the
11 transmission grid into the distribution, this
12 is primarily our co-op customers or
13 municipalities doing the distribution,
14 sometimes investor-owned utilities down to the
15 end user, which is either commercial or
16 residential. So just some of the terminology
17 that we'll be using.

18 We've had increasing number of
19 requests to interconnect with wind projects
20 through out system, primarily in the Upper
21 Great Plains, is why we felt we should go
22 ahead with a programmatic EIS, and then John

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1 talked about that already. And we've been
2 conducting separate NEPA documents for each
3 interconnection.

4 We would like to streamline the
5 process to make it more efficient, and once we
6 come up with a mechanism and procedures are
7 programmed to do this, this would help those
8 folks that are developing wind energy. And
9 one part of the NEPA that I think we should
10 mention, is John mentioned the providing
11 opportunity for the public to make our
12 decision better.

13 The goal of NEPA is to make better
14 decisions, not just better documents. It's to
15 involve the public and to provide the -- an
16 important part of the information includes the
17 environmental effects, as well as other
18 economic and other effects of what we do so
19 that that can be analyzed by the decision
20 makers, both in this case by Western and Fish
21 and Wildlife Service.

22 Okay. Our objectives address the

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1 generic concerns of wind, and particularly the
2 cumulative impacts rather than a one-by-one
3 project; develop and present the mitigation
4 measures to the extent of the technology;
5 implement and adaptive management approach.
6 All that means is we learn as we go along. We
7 have a lessons learned, so that from one
8 project, whether it's studies or whatever we
9 determine can be transferred on to the next
10 project, and that's just all adaptive
11 management means. Provide an easy guide for
12 the interconnections for the applicants.

13 I don't know what happened here.
14 We had a power failure.

15 (Pause.)

16 MR. STAS: Okay. I just wanted to
17 end up saying that there's additional
18 information, particularly on our
19 interconnection process at www.wapa.gov.
20 There's also information on how the NEPA
21 process works at a nepa.gov website that's run
22 by the Council of Environmental Quality, and

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1 John's outlined a good part of that process
2 already, but there's more detailed information
3 on how that works.

4 And I guess that -- unless there's
5 anything else, I'll turn it over to my
6 colleague, Lloyd Jones from Fish and Wildlife
7 Service.

8 MR. JONES: Thank you, Nick.

9 The Fish and Wildlife Service is
10 really pleased to be here tonight, and we
11 really feel fortunate that Western was willing
12 to let us be part of this EIS effort. As you
13 may expect by our name, Fish and Wildlife
14 Service, we're made up primarily of
15 biologists. And to be able to tap into the
16 expertise that exists with Western in terms of
17 energy overall, but specific to this issue,
18 wind energy, that's a pretty special
19 opportunity for us. So we really appreciate
20 the opportunity to be part of this effort.

21 I would like to introduce two
22 people that are here with the Fish and

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1 Wildlife Service to help me especially answer
2 any questions that may come up. My position
3 is Refuge Coordinator, and I'm stationed out
4 of Bismark. But we have with us -- our area
5 is divided up by districts -- Harris Hoistad
6 is here, he's the project leader of our Huron
7 Wetland Management District, and then also
8 from South Dakota, Tonna Hughes is here. She
9 is the state supervisor for our realty
10 program, and she is stationed in Aberdeen.

11 So we've got a couple of folks here
12 to bail me out if you all start asking me
13 questions that I'm not able to answer. But
14 we'll give it a try here.

15 The first thing that I want to do
16 is try to get this clicker thing to work.

17 (Pause.)

18 MR. JONES: There we go, got it.
19 Fish and Wildlife Service I needed to put up
20 on the screen, what the mission of the overall
21 Fish and Wildlife Service is, and we can serve
22 and protect fish, wildlife and plants, and I

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1 guess most people would expect that kind of
2 thing. I'd point out, the last couple of
3 words within the Service mission: to the
4 benefit of the American people.

5 And before I offer additional
6 comment on that, the specifics of the Refuge
7 System, that's who I work for and Harris and
8 Tonna work for as well, we have a lot of
9 divisions within the Fish and Wildlife
10 Service, we have law enforcement, we have
11 ecological services, we have fisheries. We're
12 the refuge division, we manage lands. The
13 mission of the National Wildlife Refuge System
14 is that, we administer a network of lands.
15 But, again, I'd point out at the very last
16 part of that where it says, "For present and
17 future generations of Americans."

18 A lot of people think that the Fish
19 and Wildlife Service, well, you're just duck
20 people and the only thing you care about are
21 ducks, and it's not people. But really, when
22 you look at the mission of the Service, and

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1 the mission of the Refuge System, what we do
2 with wildlife is for the benefit of people.
3 So I think that's very important to note.

4 One of the areas that we look to,
5 to carry out the mission and purpose of the
6 Fish and Wildlife Service, is the Prairie
7 Pothole Region. It's a very unique area, it
8 covers about 300,000 square miles in the upper
9 Midwest and up into Canada. And interestingly
10 enough, some of information that you've seen
11 here tonight you can see the overlap that
12 exists between where wind energy is interested
13 in developing and where a key area for the
14 Fish and Wildlife Service also exists.

15 An in this Prairie Pothole Region,
16 I know some of you here tonight are land
17 owners, you have grasslands and wetlands on
18 your property, and in South Dakota, biological
19 for the Fish and Wildlife Service, we
20 recognize this, it's proven by biology over
21 and over again, this area, this region, the
22 Prairie Pothole Region, is the most productive

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1 area in North America for migratory water
2 fowl. That's a given, it's a high priority
3 issue for our responsibilities that are given
4 to us by the American people to look to this
5 area for a very, very important purpose.

6 And you're going to see a little
7 bit more about this as I go through these
8 slides quickly, but it's both wetlands and
9 grasslands. Wetlands themselves attract a lot
10 of birds to this area for nesting or whatever,
11 but a lot of the birds, when they get here,
12 use the uplands, or the grasslands to actually
13 nest in. So it's both the wetlands and the
14 grassland that make the Prairie Pothole Region
15 so important to migratory water fowl.

16 The challenge we face is that in a
17 lot of areas in the Prairie Pothole Region,
18 North and South Dakota, and into Canada and
19 other parts of the Prairie Pothole Region,
20 grassland is being converted to crop land. It
21 has been for decades. It continues on to this
22 day, today, to continue to be converted. And

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1 I'm going to work it in yet, and then wetlands
2 are also being drained.

3 Between the two, wetlands and
4 grasslands, in a general sense throughout the
5 Prairie Pothole Region, about 75 percent of
6 the wetlands and grasslands, acres that used
7 to exist here, that existed here prior to
8 settlement, about 75 percent have either been
9 grasslands plowed up and converted to other
10 use, or wetlands that have been drained. So
11 it creates a challenge for the Fish and
12 Wildlife Service to address that high priority
13 area within North America in how do we address
14 that.

15 And one of the things we did was we
16 developed what was called a conservation
17 strategy: what is our interest, what is our
18 goal, what are we trying to accomplish. We
19 had to start out with something, and a few
20 years ago we developed this strategy, and that
21 is to protect wetland and grassland habitat in
22 the Prairie Pothole Region to sustain over 90

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1 percent of the current breeding population and
2 productivity of water fowl.

3 It's not 100 percent. There's
4 areas that have been converted where most of
5 the grasslands and wetlands have been lost,
6 that do support some water fowl and other
7 migratory birds, we're never going to be able
8 to protect probably what's left to make a
9 difference, so it ends up being just a little
10 over 90 percent. That's our goal, that's our
11 objective, that's our strategy.

12 And when you break that down, what
13 does that mean of terms of wetlands or
14 grasslands. And we've looked at both as well,
15 and what we need to do is, in addition to
16 what's already been protected, which I'll
17 cover here in a second, we need to protect
18 about 1.4 million acres of wetlands that are
19 out there now that are unprotected. And we
20 also need to protect about -- this thing
21 doesn't want to cooperate -- there you go --
22 1.4 million acres of grassland.

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1 And so as I mentioned earlier, a
2 lot of that grassland and wetlands have been
3 converted to other use. This is a challenge,
4 but this biologically, we've determined, needs
5 to be protected if the productivity of the
6 prairies is going to continue.

7 So how do we do that? We have two
8 basic programs. The first is the wetland
9 conservation easement program and what that
10 is, it's an easement program that we work out
11 with the land owner, and it basically, very
12 simply keeps wetlands from being drained,
13 burned or filled. That's the bottom line,
14 that's what the easement does, that's the
15 right that we acquire from the private land
16 owner.

17 The land remains in private
18 ownership, we don't buy the land. We're just
19 acquiring that one little bitty right, if a
20 person has wetlands on their property, not to
21 drain, burn or fill it, so it' in private
22 ownership. The easement does stay with the

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1 land. If the landowner sells the land or it
2 transfers to another person, the easement
3 stays with the land. But all other uses that
4 occur out on that land, the landowner controls
5 farming, if the wetlands are dry by natural
6 causes, haying of the wetlands, hunting, any
7 kind of other uses, other than drain, burn or
8 fill, is totally up to the discretion of the
9 landowner.

10 The second part of that program
11 that we have is the grassland easement
12 program. It's almost identical, only but in
13 this case the grassland easements just simply
14 protect the grasslands from being converted.
15 It's basically a green side up kind of
16 easement. The areas can be grazed, or hayed
17 at any time, and it can be -- I'm sorry,
18 grazed at any time, and hayed after July 15.

19 But, again, the easement does limit
20 the grassland to basically stay as grassland,
21 same as wetland easement stays in private
22 ownership, and is the same with wetland

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1 easements, if the land changes hands, the
2 easement stays with the land regardless of who
3 owns it. And, again, similar to wetland
4 easement, all other uses are under the control
5 of the landowner, for recreation uses, for
6 hunting uses, for other uses, how they graze
7 it, when they graze it, all that kind of thing
8 is left up to the landowner.

9 This is what a wetland or grassland
10 easement would look like from above. We took
11 an aerial view. There's a lot of areas like
12 this in North and South Dakota where there's a
13 high density of wetlands, where there's a lot
14 of grasslands surrounding the wetlands. That
15 picture right there is why the Prairie Pothole
16 Region is the most productive region in the
17 North American continental for migratory water
18 fowl.

19 So how well have we done? In North
20 and South Dakota and Montana the number that's
21 important, I guess, is that the combination of
22 the wetland and grassland, we have protected

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1 about 2.7 million acres of both wetlands and
2 grasslands in the three states. Pretty
3 significant accomplishment. It's probably one
4 of the most successful conservation programs
5 basically anywhere in the world that's had
6 that much successful, you know, attempts to
7 protect wetlands and grasslands. So that's
8 pretty noteworthy.

9 In terms of where are those
10 wetlands and grasslands easements, you can see
11 where South Dakota is and North Dakota, that's
12 where most of that 2.7 million acres is, but
13 it does stretch out into Northern and Western
14 Montana, which is part of the Prairie Pothole
15 Region. If you remember that one slide up
16 there, that's basically where the distribution
17 of the wetland and grassland easements are.

18 But part of setting the background
19 for why we're here tonight is the challenges
20 that we face with the easement program. Wind
21 development is rapidly expanding, and as you
22 saw where all those easements are, that's a

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1 high priority area of interest for wind
2 development, and we recognize that.

3 We also recognize -- if you
4 remember, we have that strategy where we've
5 identified the need to protect another 10.4
6 million acres of wetlands. We have interest
7 to protect that, and we need to have that
8 program be successful in order for us to meet
9 that strategy and accomplish that objective.
10 And, again, we recognize that there is that
11 overlap with wind.

12 We need to understand better, and
13 we hope to make progress in that area through
14 this EIS about the interaction of wind and
15 wildlife, and then, of course, if there is an
16 overlap, if wind is allowed on these easements
17 areas that we've already acquired, you know,
18 what is the right mix, where do they go, how
19 many are there, you know, what is the impact.

20 So there's a lot of challenges that we hope
21 to address through this EIS process.

22 One thing I want to mention is that

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1 we do have a process of dealing with requested
2 uses. Wind isn't the first thing that's come
3 to us with our management of the easement
4 program. There are real water districts that
5 need to bury lines, there are pipeline
6 projects that need to cross easements, there
7 are landowners that need to expand their
8 operation and build calving sheds or, you
9 know, build additional facilities, so we have
10 dealt with requested uses in the past, and
11 wind is simply just another one that we dealt
12 with.

13 Roads is another issue that we have
14 to address when we manage our easements. We
15 also have a series of steps that we go through
16 and we evaluate all those requested activities
17 through what we call a flow chart, so we hope
18 we're doing a fair and equitable job when we
19 do consider all these different uses.

20 And there's also various
21 requirements we have to meet. The very first
22 one you see there is NEPA. That's why we're

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1 all here tonight. The National Environmental
2 Policy Act, National Historic Preservation
3 Act, and then we have other internal policies
4 like appropriate use and compatibility that
5 Congress has told us, this is how you need to
6 do business.

7 But here's the most important point
8 that I want to bring up tonight through this
9 slide series is that our general guidance,
10 when we manage easements, is reasonable
11 accommodation. If there is a way that we can
12 work out development within these easements,
13 we hope to do so in a reasonable manner.

14 The current status of wind and
15 easements, somebody may want to know, well,
16 what are you doing now kind of things, we have
17 dealt with wind for some time now and we have
18 authorized three projects with about 25 towers
19 on easements, and administratively two of
20 those we've done through a right-of-way
21 process, a permit that we issue, one we've
22 gone through where we've actually exchanged

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1 part of the wetland and grassland easement,
2 and so we've dealt with it that way.

3 The current -- future status,
4 again, that PEIS's program, EIS wind projects
5 and easements, where is that going to take us,
6 and -- maybe I'm running low on batteries or
7 something, this thing doesn't want to work --
8 we need to understand the impacts individually
9 and cumulative. Nick made that comment about,
10 you know, looking at this programmatically and
11 trying to gather an understanding of all the
12 impacts that might be associated. That's very
13 important to this programmatic. We need to
14 review what research is available in terms of
15 wind and wildlife interaction and identify
16 more if more is needed.

17 We need to streamline environmental
18 compliance. For us to deal with those three
19 projects I mentioned, we had to go through
20 this NEPA process individually. It took up a
21 lot of time, a lot of man power. Hopefully we
22 can save companies and us a lot of time by

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1 going through this EIS process.

2 And then, of course, we want to be
3 able to work with the wind companies. They
4 have some ideas on what they can do to make it
5 more accommodating on the landscape and
6 minimize the impacts. We have some ideas, and
7 we hope to be able to come up with some
8 guidance to do that. So that's the purpose of
9 the Fish and Wildlife Service basically being
10 involved in this process, is to meet those
11 objectives right there. So I think that's
12 real important.

13 And to make sure I knew when I was
14 supposed to stop talking, I put a slide in
15 there that said "The End", so I guess with
16 that I'll turn it over to Karin.

17 I don't think that's going to work
18 anymore. I must have wore it out.

19 MR. HAYSE: Let's see what I can
20 mess up here.

21 (Pause.)

22 MR. HAYSE: Pardon us for just a

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1 couple of minutes here until we can get things
2 back on track.

3 (Pause.)

4 MR. HAYSE: Sorry, folks, but I
5 don't think anybody wants to watch it flicker
6 for the next 10 or 15 minutes. Right?

7 (Pause.)

8 MR. HAYSE: Yes, if there are any
9 questions on the presentations that have been
10 given already, what I would ask is, if you
11 would step up to one of the microphones up
12 front here to ask your questions so that we're
13 sure that we hear it clearly and that our
14 recorder over here it as well.

15 Does anybody have a particular
16 question right now?

17 And if you would just state your
18 name and affiliation, if there is one that you
19 want to say.

20 MS. KINNEY: Jean Kinney, in Sioux
21 Falls, and my husband, Bert Tollefson.

22 I don't know anything about energy

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1 except what I read in the paper, you know, and
2 whatever is presented to us. I don't have any
3 background in energy at all. But did I miss
4 that you're just getting wind from the
5 windmills, or are you getting wind from the
6 ground also?

7 Because there are certain areas I
8 know, highway areas, that I have traveled in
9 Arizona where there's a lot of wind on the
10 ground. There's one section in particular on
11 I-10 you have to be very careful when you're
12 driving. But I was thinking more like with
13 traffic like it is, you know, why not go back
14 to the cause of all the problems, automobiles
15 and energy that we're using. But why not have
16 some kind of a grid along highways to pick up
17 the wind from, you know, the trucks and the
18 cars and everything, if that's possible and
19 it's not a crazy idea.

20 You know, something other than
21 windmills, because we've already heard from
22 Senator Kennedy that he doesn't like windmills

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1 in his front yard, you know, so I'm sure there
2 are other people who don't like windmills, you
3 know, on their property either. But if you
4 can get it from the ground, from the traffic,
5 you know, that might be a source.

6 MR. STAS: We have not had any
7 proposals, Western Area Power, for capturing
8 wind as you mentioned, from the ground. The
9 proposals we've had for interconnection to our
10 grid have all been the standard type of
11 windmill design to capture energy for this
12 system.

13 But it might be a feasible idea,
14 and maybe Karin can address this when she
15 talks.

16 MS. SINCLAIR: Well, I didn't give
17 my presentation yet, but we don't -- we're not
18 looking at that as far as the near term
19 technologies. It's onshore/offshore wave
20 technology, things of that nature, so I'm not
21 really familiar with whether that's a feasible
22 technology or not.

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1 Should we go on?

2 MR. HAYSE: Yes, please.

3 MS. SINCLAIR: Okay. So I was
4 asked to -- I don't have any back up support
5 here, so be nice -- I was asked to give a
6 presentation on wind technology. I'm from the
7 National Renewable Energy Lab, and I'm with
8 the wind program. And this is a picture of
9 our site, which we are just outside of
10 Boulder, Colorado.

11 And I've kind of organized my
12 presentation in this way to talk about, a
13 little bit about the technology -- we don't
14 have a lot of time, so I'm really going to fly
15 through this -- talk about where the capacity
16 is installed, a little bit about what a
17 project might look like, a couple of issues
18 regarding transmission operational
19 constraints, and the benefits and
20 environmental impacts from wind.

21 So on this graph, this is sort of a
22 historical time line on what -- how the

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1 technology has evolved over time. And if you
2 look at the far left side, those are state of
3 the art large wind turbines back in the early
4 '80s, and they were 100 kilowatts in size. In
5 2007 the average wind turbine that was
6 installed was 2.2 megawatts, so 22 times the
7 size. You can see also that the rotor size is
8 17 meters; now it's approaching 100 meters.
9 So the technology is completely different
10 today than it was 20 plus years ago.

11 And then on the bottom of the slide
12 I overlaid some of the research, the national
13 research meetings that we've been involved
14 with since the early '90s when wildlife, in
15 particular avian impact issues came to light.

16 And through the Department of Energy we've
17 been working on addressing this issue.

18 So from the standard wind turbine
19 technology perspective, this is what -- it's
20 simple is what it is. The wind turns the
21 blades, which it's -- the shaft is connected
22 to a generator and it produces electricity.

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1 When you cluster a number of wind turbines,
2 that is called either a wind project or a wind
3 farm, a wind facility, and that all feeds into
4 the transmission system, which is what WAPA's
5 been talking about.

6 So this is a prototype of a wind
7 turbine to try to capture wind in what's
8 called low wind speed. If you've looked at
9 the map over here, you see that the area, the
10 region of the country that we're talking
11 about, has tremendous wind. But if you look
12 at it -- if you look at other parts of the
13 country, you'll see that there isn't a lot of
14 wind. So we are looking to develop technology
15 that will help us extract that energy from
16 lower wind speed parts of the country.
17 However, these turbines will still be
18 functional, viable in these higher wind
19 speeds.

20 And I wanted to show you what --
21 would you just hit that one again -- just
22 wanted to show you what a wind turbine looks

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1 like when it's going around with today's
2 technology. And I guess it's -- well, you
3 can't hear anything, but that's because you
4 can't hear anything. They don't make very
5 much noise compared to the early technology.

6 So where is the capacity installed?

7 Worldwide, the Europeans are way ahead of the
8 game, and that's for very specific reasons.
9 They have a lot less land available to them,
10 so they're -- you know, they -- well, that's
11 the -- anyway, they have a lot less interest
12 in some of the other technologies that are out
13 there and more interested in the renewable
14 technologies, wind being one of them.

15 As of January '08, about 90,000
16 megawatts were installed worldwide, and
17 Europeans contributed more than half of that.

18 If you look at the middle row, the blue bars,
19 that's North America, most of it's the United
20 States. And just last month we broke the
21 20,000 megawatt threshold for capacity
22 installed in the U.S. But the Europeans are

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1 still planning to push further and faster in
2 terms of adding capacity.

3 So these are the maps that you see
4 over on the side there, and if you look at it,
5 you'll see that there's a bit of a disconnect
6 between where the energy resource is and where
7 the capacity is installed, particularly with
8 the states that we're talking about here. So
9 there's a tremendous opportunity to increase
10 the contribution from wind to our energy mix
11 in this region of the country.

12 And there's also -- in 2005 there
13 was some discussion about potentially
14 contributing 20 percent of our electricity
15 needs from wind. Subsequently, analysis was
16 done and it looks like there really aren't any
17 technical barriers to 20 percent of our wind
18 coming by 2030 -- 20 percent of our
19 electricity coming from wind by 2030.

20 So how do we get there from where
21 we are today? This next series of maps shows,
22 based on this analysis, how the various states

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1 would need to increase their production from
2 wind in order to meet that goal of 20 percent
3 by 2030. And you'll also see that -- so this
4 is 2012, 2018, 2024, and then finally 2030.
5 In each of the states there's a little box and
6 that represents the amount of the land that
7 would be used, or put aside for the wind in
8 order to contribute and meet this goal of 20
9 percent by 2030.

10 And you'll also notice on these
11 maps that offshore makes a contribution, a
12 very large contribution by the time we get to
13 2030, and in the earlier years there was
14 nothing because as of today there is no
15 offshore development in the United States, but
16 the Europeans are forging ahead on that, so
17 we'll learn a lot from their experiences.

18 So what does a wind farm look like?

19 Well, today the common turbine is three-
20 bladed and it's up wind. And as I said, the
21 average size is about 2.2 megawatts. The
22 tower that they're put on varies in size from

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1 80 meters to about 150 meters.

2 And the way the wind farm will be
3 laid out is going to be dependent on a number
4 of factors, including the developer's access
5 to various landowners' land as they get
6 leases, so it could be contiguous, or it could
7 be sort of patchwork as they put together
8 their deal with the local landowners.

9 But a rule of thumb is, if you
10 wanted to look at a project that's already
11 been built, is that they're about two to three
12 rotor diameter apart, and then each row is
13 about 10 rotor diameters apart. And that's to
14 sort of negate the impacts of turbulence from
15 each turbine.

16 And I forgot to mention that I've
17 tried to integrate pictures of wind farms that
18 are already up and running in the Upper Great
19 Plains. This one is in Minnesota.

20 Oh, I did forget to say -- I'm
21 sorry, let's go back -- power generation.
22 That was another question I was asked to

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1 address. That's also going to vary depending
2 on the size of the -- depending on a lot of
3 factors. It depends on the size of the
4 project, it depends on the size of the
5 turbines, it depends on the wind regime. But
6 generally speaking, if you're looking at
7 turbines placed in an average wind regime,
8 which is class 3 or class 4.

9 And if you don't know what that is,
10 you can look on the maps and it describes what
11 the wind speed would be for each of those
12 classes. And if you think about what the
13 average home owners' consumption is, which is
14 today around 900 -- just under 900 kilowatt
15 hours per month, then a one megawatt wind
16 turbine, on average, will provide enough
17 electricity for 225 to 300 homes.

18 So how does a developer -- what
19 does a developer need to think about as they
20 put together their wind farm? Well, first and
21 foremost, it's going to be the wind. They
22 need to generate income, and the income is

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1 going to be a direct function of the wind --
2 the energy output, which is a function of the
3 wind, and it's wind speed squared. So the higher up
4 you go, the more wind you can get, the better
5 wind regimes you go into, the more wind you
6 can get, and this is one of the reasons that
7 there's a lot of interest in high wind speed
8 areas of the country.

9 Transmission access is a critical
10 component, and without that there's -- you
11 know, they can put the wind turbines in, but
12 there's no place for it to go. So that's very
13 important obviously. The developer typically
14 needs to find an outlet for the energy that
15 they're producing, and one of the most common
16 ways of doing this is to create -- is to enter
17 into a purchase power agreement with a
18 utility.

19 And then they need to, of course,
20 line up the land that this project is going to
21 be put on and get their permits. And wildlife
22 impacts and the concern of local citizens not

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1 wanting it in their backyard are things that
2 need to be dealt with in order to get a
3 permit.

4 They need to find turbines at
5 competitive prices. The reason I put that in
6 there is because of some policies of pretty
7 much all the turbines for the years 2007-2008
8 were bought up in 2007 and there just really
9 aren't any turbines out there so finding
10 turbines for a project is a critical piece of
11 the whole puzzle. And then the developer
12 would need to line up their financing.

13 So very quickly, the transmission
14 issues will be addressed in this PEIS, I
15 think, but the transmission availability is
16 constrained, and the Federal Energy Regulatory
17 Commission, FERC, which was mentioned several
18 times, regulates for transmission.

19 Intermittency is an issue that
20 frequently comes up, the fact that the wind
21 doesn't blow all the time. And early on,
22 utilities in particular, were concerned that

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1 adding this type of a resource to their
2 resource mix would cause issues for their
3 operating system. But, in fact, we now know
4 that that's not an issue of concern any more.

5 As an example, I would point to the
6 most recent -- one of the most recent projects
7 added in Colorado, Lamar. When the proposal
8 was first made, there was a suggestion that
9 there needed to be 100 percent back up for
10 that project, and after all the analysis was
11 done, the utility actually integrated this
12 project into its system with zero back up
13 required. So we know that it's not an issue.

14 The Europeans have 20 percent plus wind in
15 their resource mix, so it's really a non-issue
16 any more.

17 And then operational
18 considerations, gear box reliability, turbines
19 are supposed to last 20 to 30 years. We have
20 had a number of failures. There's an
21 international collaborative that's been formed
22 to address that issue, and then also some

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1 early blade failures was a function of
2 manufacturing start up woes I guess would be a
3 good way of putting it, and those have been
4 dealt with.

5 And here's a project from Iowa that
6 is actually a mix of turbines, a number of 1.5
7 turbines, as well as some 1.0 megawatt
8 turbines. I think it's interesting to see all
9 of these projects out there in the field, and
10 there's just not a common picture, but there's
11 a lot of similarities between the way these
12 projects are laid out.

13 So in terms of benefits, I put a
14 flyer out in the front and hopefully you took
15 it. There's just -- that was a summary of
16 sort of the 10 common benefits of wind.
17 They're -- it's economically competitive, it's
18 a cash crop for farmers and ranchers, which
19 can really help save the farm, and it has in
20 many, many cases.

21 It doesn't use water, which is a
22 concern in many parts of the country. Water

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1 constraints contributes to national security
2 by being an indigenous resource; we don't have
3 to buy it from another country. It's
4 exhaustible, it's renewable, it has no
5 emissions, and once you put in your wind
6 turbines, the fuel is free, which means you're
7 not going to be susceptible to fossil fuel
8 price volatility.

9 And then the thing that's
10 interesting about wind is that it has a whole
11 range of applications from the large wind
12 farms that we might be talking about today,
13 but also can be used for homes, businesses, it
14 can be used in community projects for schools
15 and tribal situations.

16 And the last section is the
17 environmental issues. There are three major
18 areas that we commonly hear about, acoustics,
19 aesthetics, and wildlife. The acoustics,
20 which I was talking about earlier, is really a
21 non-issue anymore because the Europeans
22 have -- because they have the wind farms built

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1 much closer to where they live, they really
2 pushed for development of international
3 standards that have -- although the projects
4 are more costly now, the turbines are more
5 costly now, they have reduced the acoustic
6 impacts. And for the manufacturers to play in
7 a global market, they need to make sure that
8 their turbines meet these international
9 standards.

10 Aesthetics, that's beauty is in the
11 eye of the beholder. Somebody may not want
12 wind turbines in their backyard, other people
13 look at it as artwork. So that's really a
14 very subjective consideration.

15 And then the wildlife issues,
16 birds, bats and habitat, primarily the
17 wildlife issue revolved around raptor impact
18 at the Altamont in the early years. And as
19 you saw from the first graph, the turbines
20 look a little different. I have a bunch of
21 slides on that particular wind farm and
22 it's -- the characteristics of that wind farm

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1 are a lot different than where we're talking
2 about wind turbines going in right now.

3 But in addition to that, because of
4 that issue, we have, through the Department of
5 Energy and collaborative research, spent many,
6 many years, over a decade, working this issue,
7 and have come up with strategies to avoid,
8 minimize, and mitigate for impacts from birds
9 in particular. However, there's an emerging
10 issue with bats that came to light a couple of
11 years ago in West Virginia and Pennsylvania.
12 We also found bat impact issues in Canada and
13 Germany. So it's not isolated to a single
14 wind resource area.

15 As a result of the work that was
16 done on birds back in the '90s, the community,
17 the stakeholders of the energy offices,
18 federal government, the industry and the non-
19 government organizations like the Nature
20 Conservancy, Sierra Club, Audubon Society,
21 very -- are engaged in addressing this issue,
22 and there's very aggressive cutting edge

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1 research going on right now to try to address
2 the bat impact issue.

3 And then the last wildlife impact
4 issue is habitat. This is a proactive
5 research project that we've been working on,
6 and we're looking at how do wind farms impact
7 the demographics of tall grass prairie species
8 like greater prairie chickens, lesser prairie
9 chickens and potentially sage grouse, and how
10 does it impact their genetic dispersal.

11 So we have research going on in the
12 Kansas area, also Texas and Oklahoma, to try
13 to address this issue before wind farms go in
14 that area in large amounts so that we will
15 understand and be able to strategically place
16 those wind farms so that they don't cause
17 those impacts.

18 And then finally with the work
19 that's been going on over the last 15 years,
20 there's a tremendous amount of resources out
21 there. I can't spend the time that I would
22 want to talk about them, but these are just a

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1 few of the resources that are available.
2 There was a guidance document that describes
3 metrics and methods that should be used for
4 assessing wind -- potential wind farm
5 development areas, and specifically diurnal
6 daytime species.

7 And in the recent past, the last
8 couple of years, we've now been looking at
9 bats and also other nocturnal birds. And so
10 we've developed this metrics and methods
11 document that summarizes the tools and the
12 technology that's out there to help
13 developers, other stakeholders assess what the
14 potential impact might be at a wind farm
15 before it's built, and then proactively make
16 decisions to avoid, minimize, or mitigate
17 those impacts.

18 So I think that's -- I'm out of
19 time.

20 MR. HAYSE: Okay. At this point,
21 what I'd like to do is open the floor up if
22 people have questions that are related to the

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1 presentations that have been given. So points
2 of clarification, or something like that, not
3 necessarily comments at this point about what
4 we should be looking at in the EIS and that
5 type of thing.

6 And if you would, when you come to
7 the microphone please state your name, if
8 there's an affiliation, if you're representing
9 an organization or something, please state
10 that as well.

11 And give me just a moment, and I'll
12 turn that microphone back on.

13 MR. SCHUMACHER: Good evening. My
14 name is Bill Schumacher, and I'm a member of
15 the Flandreau Santee Sioux tribe, and I'm
16 their wind project coordinator. We've been
17 working for the past couple of years, and I'm
18 doing a 50 megawatt project at Flandreau.

19 But it's in coordination with some
20 of the -- I also serve on the executive
21 committee of the Intertribal Council on
22 Utility Policy, and we've been working with

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1 Mike Radecki from Western on the Section 2606
2 study of integrating tribal wind into the
3 transmission system. And that report is -- I
4 believe is due out in October.

5 So I guess my question would be, in
6 this impact study, are you going to be
7 considering the eight tribes that are part of
8 the projects in that report? That would be
9 the Flandreau Santee Sioux tribe, the Lower
10 Brule Sioux tribe, the Rosebud Sioux tribe,
11 the three affiliated tribes, the Omaha tribe,
12 the Spirit Lake tribe, Ogalala Sioux tribe,
13 and the Yankton Sioux tribe.

14 MR. STAS: As John mentioned
15 earlier, we're not looking at any specific
16 projects, but we will be looking as a whole on
17 all the potential wind development in the
18 Upper Great Plains Region, and from that, the
19 developing decisions regarding mitigation and
20 streamlining the process for future projects
21 that are coming in. But as far as any
22 specific projects, that's not the goal of this

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1 programmatic EIS.

2 MR. SCHUMACHER: Well, I guess my
3 question would be, will there be any
4 integration of the 2606 report that --

5 MR. STAS: The report --

6 MR. SCHUMACHER: -- Western is
7 also doing?

8 MR. STAS: The report will be
9 recognized and included and referenced in the
10 document, and that'll be, as you mentioned,
11 Mike Radecki from the Upper Great Plains
12 Region is looking at the integration of wind
13 with hydropower study, and that will be
14 referenced and integrated as we get into
15 preparing the preliminary EIS.

16 MR. SCHUMACHER: Okay. And you
17 also mentioned the National Historic
18 Preservation Act, and will --

19 MR. STAS: Right.

20 MR. SCHUMACHER: -- Western be the
21 lead agency under that Act? If several
22 agencies are involved, one agency can be the

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1 designated lead agency. Will that be Western?

2 MR. STAS: We have not decided that
3 yet, but we will be doing some consultation on
4 a, again, on a programmatic, not on any site-
5 specific basis, but trying to get information
6 incorporated to perhaps avoid some of the
7 issues in the proposals in the future to the
8 extent that we can release some of the
9 information. Some of that information can't
10 be released generally, but to the extent that
11 we can include avoidance areas and things of
12 that nature is our goal, to include that type
13 of information for wind developers.

14 MR. SCHUMACHER: Oh, okay. I'd
15 like to request that Intertribal COUP be
16 included in any consultation that you'll do
17 for this programmatic EIS.

18 MR. HAYSE: Could you also please
19 come back up during the comment period and
20 provide that as a comment. Right now we're
21 just trying to get questions to clarify the
22 presentations, if somebody had a question

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1 about that. But --

2 MR. SCHUMACHER: Well, you had
3 mentioned NHPA, I mean the National Historic
4 Preservation Act, so that's all part of the
5 same process.

6 MR. HAYSE: Absolutely.

7 MR. SCHUMACHER: And the reason I
8 asked about the tribal sites is under the 2005
9 Energy Act there was delegation of secretarial
10 authority to the tribes to approve energy
11 resource agreements, TERA. Is there going to
12 be any consultation, or any interconnection
13 between your study and the TERA section of the
14 Energy Act, because some of the very same
15 things are required, meeting NEPA, meeting the
16 National Historic Preservation Act, or will
17 your study be able to be used by the tribes to
18 satisfy those requirements?

19 MR. STAS: The study should be
20 developing information for anybody that wants
21 to develop wind in our part of the country,
22 and there will be good information and

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1 references for -- even if they don't
2 interconnect with the Western grid, that
3 information will still be useful and for folks
4 that want to develop wind and still protect
5 wildlife and cultural resources and things of
6 that nature.

7 MR. SCHUMACHER: Thank you.

8 MR. TOLLEFSON: Sir, I had a
9 question that related to what you were talking
10 about. Tell us a little bit about the
11 transmission arrangements in California at
12 Palm Springs, and I think that's -- those
13 windmills are all on tribal land aren't they,
14 outside L.A.? Anybody know about that?

15 I'm Bert Tollefson, by the way, of
16 Tollefson Energy.

17 MR. STAS: I'm looking for our
18 transmission managers.

19 Ed, do you know anything about
20 that?

21 MALE VOICE: I don't --

22 MR. STAS: I don't know --

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1 MALE VOICE: We're talking about
2 Montana, the Dakotas. I don't know anything
3 about California. I'm sorry.

4 MALE VOICE: There is some
5 development on tribal lands in California,
6 that's correct.

7 MR. TOLLEFSON: Is there what?

8 MALE VOICE: There is some
9 development on tribal lands in California.

10 MR. TOLLEFSON: It is on tribal
11 lands.

12 MALE VOICE: Not entirely, but
13 some.

14 MR. TOLLEFSON: Well, it's an
15 example I think of what can be done in terms
16 of transmission because it's worked out there.

17 It's a real study, a case study, and I think
18 it relates to other questions here because you
19 need open lands. We've got a lot of
20 reservation land here in South Dakota and the
21 whole upper Midwest, and so it's kind of a
22 natural in terms of giving an opportunity for

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1 Indian land as well as private land to be used
2 for location of windmills, and also
3 transmission. I just wondered how that had
4 worked out in California.

5 Did you have a comment?

6 MALE VOICE: No.

7 MR. TOLLEFSON: We've got a man
8 here who's a Congressional aide, and I pointed
9 out that one of my previous incarnations I was
10 president of the American Corn Millers
11 Federation. We developed the high protein
12 foods that you've heard about that saved
13 millions of lives around the world. But to
14 shorten this story, when we were going through
15 it, we ran into big objections from the
16 nutritionists and the United Nations, and they
17 were down in the Capitol when we put this
18 together.

19 So without being immodest, I wrote
20 the statements for both Democrats and
21 Republicans, Congressmen, directing the U.S.
22 Government to go ahead with it. The UN wanted

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1 to study this for years, so I think that if we
2 can get this together in terms of having the
3 basic information, it's going to be very, very
4 helpful. It's out of sessions just like this
5 that we can move ahead with it. Thank you.

6 MR. HAYSE: Thank you.

7 One or two more questions?

8 MR. KOLSRUD: My name is David
9 Kolsrud, and we have an office over in
10 Brandon, renewable energy projects. Just a
11 simple question, is this environmental impact
12 statement going to slow down wind development
13 in South Dakota? Do we have to wait until
14 it's done, or is it going to impede some of it
15 at all?

16 MR. STAS: The projects that are
17 being reviewed are going forward in parallel.
18 We have proposed projects that are being
19 currently under review that are being looked
20 at under the National Environmental Policy
21 Act. Those will proceed and will not wait
22 until the programmatic EIS is done.

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1 The programmatic EIS is future-
2 looking, but information, as we're developing,
3 certainly we'll need to make sure that that
4 gets shared with the folks, the projects that
5 are happening as we finish the programmatic
6 EIS.

7 MS. JONES: My name is Marcy Jones.
8 My interest is actually in the hybrid homes,
9 that's kind of what I'm learning about. And I
10 have a question about the size of the turbines
11 compared to the ones that are used in the
12 hybrid homes.

13 MS. SINCLAIR: Could you tell me
14 what a hybrid home is?

15 MS. JONES: It's a home where
16 the --

17 MS. SINCLAIR: Could you --

18 MS. JONES: Okay, sorry.

19 MR. HAYSE: Please use the
20 microphone.

21 MS. JONES: Okay. I know there are
22 several areas out in West River where the home

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1 is integrated. They have their own wind
2 turbine and they are integrated into the grid.

3 The grid is integrated into Black Hills Power
4 and Light, and they're -- the home is run by
5 wind energy when it's blowing -- when is
6 blowing eight miles an hour or more, and then
7 it credits the utility company.

8 If it's going faster or when you're
9 not using it, and then the home is -- you get
10 a bill from Black Hills Power and Light, and
11 then you use your wind energy. And then on
12 your bill it shows a credit for how much wind
13 energy you produced and not used, that they
14 will not charge you for in the future or
15 something.

16 MS. SINCLAIR: Okay. So that's net
17 metering, and generally if it's for a private
18 residence -- these turbines are like I
19 described, they're just way too big -- we have
20 another segment of the wind industry that's
21 called the small wind turbine industry, and
22 they're projects by DOE's definition is 100

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1 kilowatts or less. So what was state of the
2 art as a large wind turbine back in the '80s
3 is now the cap of what we call small wind
4 turbines.

5 Generally speaking, for a home, you
6 might have something on the size of 10
7 kilowatts. So very, very small. And I don't
8 think that has anything to do with this
9 project, because those are interconnected on
10 the distribution side. So you have to have a
11 direct relationship with your utility, your
12 co-op, your, you know, whoever.

13 And like I have a PV system in my
14 home for the same -- I have an interconnection
15 agreement with my utility, it's net metered,
16 we balance out at the end of the year, every
17 state -- or jurisdiction does it differently.

18 But those would be really small wind
19 turbines.

20 MR. HAYSE: Anybody else have an
21 urgent question related to the presentations?

22 (No response.)

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1 MR. HAYSE: Okay. What I'd like to
2 do next is to move into what we referred to as
3 our public scoping comments phase of this
4 meeting. And basically the idea here is that
5 we will solicit comments related to things
6 that we should either be considering in the
7 EIS relative to the alternatives, the proposed
8 action, information that we should consider as
9 we conduct our analyses in the EIS, or
10 information about environmental impacts and so
11 forth.

12 Basically, before we move to
13 actually giving those comments though, I'd
14 like to point out that there are many ways
15 that you can provide scoping comments on the
16 environmental impact statement. You can come
17 to this scoping meeting and provide comments,
18 as we're preparing to do in a few moments, you
19 can provide comments via the project's website
20 and the URL for that is given on the screen
21 here, and then finally you can also provide
22 comments via mail.

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1 Most of you when you came in
2 probably picked up one of our comment forms,
3 and if you would prefer to, you can actually
4 write your comment on the form, fold that form
5 up, and send it in to the address that's on
6 that form, or prepare your comments in some
7 other way and mail them to the same address.
8 And the address is given on the website by the
9 way.

10 Now those scoping comments, and
11 regardless of which format you decide to use,
12 or how you decide to transmit those comments,
13 will be accepted through November 10, 2008.
14 At that point, we will take the comments that
15 we have and we will use that to further
16 clarify what types of things we need to be
17 looking at in greater detail in the
18 environmental impact statement.

19 So as far as submitting written
20 comments, I mentioned you can fill out one of
21 those paper forms, or you can mail written
22 comments, you know, however you decide to

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1 prepare those, and any other supplemental
2 material related to the EIS to the addresses
3 that are given on the website or on the forms.

4 Alternatively, if you have
5 something with you tonight, you could leave
6 that with one of the EIS staff members, so
7 somebody who's wearing a badge preferably.
8 And the address for mailing comments is given
9 here.

10 Now for more information related to
11 the EIS and the EIS project as a whole, you
12 can go to the project website, as I mentioned,
13 or you can contact one of the federal agency
14 representatives, one of the lead agency
15 representatives that are here tonight, or that
16 are listed on this slide, so that would either
17 be Nick Stas, who's here next to me, or
18 Michael Spratt if you're interested in
19 submitting a comment, or asking questions of
20 somebody in the Fish and Wildlife Service
21 relative to this project.

22 All right. So as far as providing

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1 oral comments tonight though is we have some
2 people that signed up to provide comments as
3 they registered for the meeting tonight. And
4 those speakers that signed up and indicated an
5 interest in providing oral comments will be
6 asked to come to the microphone in the order
7 in which they signed up.

8 Now unregistered speakers, or
9 people in the audience who wish to provide a
10 comment will be invited to come up after those
11 registered speakers have provided their
12 comments.

13 Now as far as making the oral
14 comments goes, please, again, state your name
15 and your affiliation, if there is one; keep
16 your comments brief, and that's so that we can
17 allow everybody a chance to make the comments
18 that they're interested in; limit the
19 comments, to the best of your ability, to the
20 scope of the programmatic EIS.

21 And remember, we're talking
22 specifically about looking at wind energy

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1 development, interconnection to Western's
2 energy transmission grid, and development of
3 those wind energy projects on wetland or
4 grassland easements that are managed by the
5 Fish and Wildlife Service.

6 And then if you have copies of
7 written remarks, or supplemental materials
8 that you'd like to leave, please provide those
9 to one of the staff members, me or somebody
10 else who's wearing one of the badges here.

11 Keep in mind that the comments are
12 being recorded, and that is so that we can
13 prepare transcripts of those comments so that
14 we're sure that we accurately capture the
15 comments that are made tonight, and that those
16 transcripts will be prepared and posted on the
17 public website.

18 Now, other than the name that you
19 state or your affiliation, we're not
20 attempting to include personally identifiable
21 information with those comments. But please
22 be aware that we are recording the comments

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1 that are made, and that's really to benefit us
2 and to benefit other members of the public
3 that would like to know what type of comments
4 were made.

5 So with that said, I do have a list
6 of the registered speakers, and the first
7 speaker that I would like to call up is Gary
8 Hanson, if Gary's in the audience still.

9 MR. HANSON: Good evening. Thanks
10 for having us. I appreciate you putting on
11 this event for us. My name is Gary Hanson. I
12 am the chairman of the South Dakota Public
13 Utilities Commission.

14 And the three Commissioners worked
15 to put together a statement, so I am speaking
16 on behalf of all three Commissioners, and thus
17 I have to read it, otherwise, if I stay, then
18 I am saying something that is not necessarily
19 their opinion.

20 "South Dakota Public Utilities
21 Commission both supports and encourages WAPA's
22 and the Fish and Wildlife Service's proactive

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1 intent to more clearly define, and hopefully
2 streamline processes that allow us to develop
3 new and cleaner sources of energy. The timely
4 sighting, construction, and interconnection of
5 new wind generation facilities is often
6 dependent on public interest reviews conducted
7 by a number of federal and state agencies.

8 "If we find the operation of these
9 new facilities to be in the public interest,
10 which the South Dakota PUC does, it stands to
11 reason that more efficient processing of these
12 reviews, without sacrificing any quality of
13 the review, is also in the public interest.

14 "We are intrigued by the
15 possibilities of the successful development of
16 your programmatic EIS approach. It makes
17 sense to us that moving from a case by case
18 analysis to development of an accessible, pre-
19 existing database for developers could result
20 in tremendous efficiency and cost benefits for
21 all, with additional potential benefit for the
22 natural resources we all wish to protect.

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1 "It appears to be a coherent
2 response to increasing demands of the energy-
3 using public, those interested in protecting
4 our natural and human environmental resources,
5 and the fast-developing wind generation
6 industry. We applaud your effort.

7 Proposed transmission system
8 enhancements are also to be considered with
9 this process. It is no secret that South
10 Dakota's exceptional wind resources will not
11 be developed and will not reach a market until
12 adequate transmission is constructed to reach
13 those markets.

14 "While we are interested in
15 efficiency improvements for existing
16 transmission, we will need to go well beyond
17 existing capacity if we wish to reach our vast
18 potential to power a significant portion of
19 the United States' needs with clean, domestic
20 wind generation

21 "We will do whatever we can to
22 support this development and strongly

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1 encourage a sense of urgency in consideration
2 of this portion of the process. We understand
3 this is just the beginning of a process that
4 may take up to two years to complete, and that
5 many details have yet to be determined before
6 completion.

7 "While we support the intent of the
8 process, we do reserve the right to comment
9 more fully when necessary program detail is
10 proposed, and we look forward to doing what we
11 can to assist a successful completion of your
12 proposal."

13 Thanks for giving us the
14 opportunity to speak this evening.

15 MR. HAYSE: Okay. The next speaker
16 that registered to speak is Mike Vehle. Is
17 that pronounced right?

18 MR. VEHLE: It's close.

19 MR. HAYSE: Okay.

20 MR. VEHLE: Thank you.

21 My name is Mike Vehle. It's
22 Norwegian, Vehle, ja.

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1 (General laughter.)

2 MR. VEHLE: First I want to thank
3 the U.S. Fish and Wildlife Service and the
4 Western Area Power Administration for coming
5 out here and holding these hearings. I think
6 it's important to get out into the region and
7 hold these hearings.

8 I would even encourage you in the
9 future to go even further into the region, out
10 in Central South Dakota, so we can show you
11 what real wind is like. Okay. South Dakota
12 and the Upper Great Plains is one of the best
13 sources of wind in the world.

14 And did I tell who I was when I
15 started?

16 MR. HAYSE: Yes, you did.

17 MR. VEHLE: Okay. And I'm a
18 legislator from District 20, which encompasses
19 some of this area. So I'm a state legislator
20 from District 20, which is Aurora and Davison
21 County. So sorry about that.

22 And why is this wind energy so

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1 attractive? Well, nuclear energy gets people
2 worried about what we're going to do with the
3 waste. Coal and other fossil fuels worries
4 people about pollution and carbon dioxide.
5 Whether that's right or wrong, it worries
6 them. Solar, it's too expensive, and we
7 probably can't produce enough.

8 But wind is plentiful. It's clean,
9 it doesn't use water to produce energy, it's
10 free, and if you live in South Dakota, you
11 fully understand that its source is totally
12 endless, and this planet will always have
13 wind.

14 As with any source of energy, we
15 must look at all the potential environmental
16 impacts, and I commend you for -- both the
17 Fish and Wildlife Service and the Western Area
18 Power Administration for these hearings to
19 explore these areas. I must relay that, from
20 what I've been told, the lost to migratory
21 birds is minimal at best.

22 Wind is a valuable resource for the

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1 people in my district, Aurora and Davison
2 County in Central South Dakota. And it can
3 contribute to the enhancement of energy
4 production, not only for our area, but for the
5 entire nation. And it can help lessen our
6 dependency upon foreign fossil fuels.

7 Electric cars are becoming more and
8 more popular. I'm on a task force that's
9 studying roads. We have an issue of how are
10 we going to tax electricity that's used on the
11 roads, because that's how we fund the building
12 of our roads, is the tax on fossil fuels. So
13 we've got another problem also there. But
14 wind that creates this electricity is probably
15 the cleanest and most endless source of energy
16 possible to fuel our cars.

17 Now, on a more parochial basis. I
18 grew up in Central South Dakota, and I was in
19 the grain business for many years. Today we
20 have high commodity prices, and we have high
21 yields. Let me tell you something, that's an
22 anomaly.

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1 Generally, when you have high
2 yields, prices are low. And when it's dry and
3 you don't have much of a yield, prices are
4 really high. My father used to say about our
5 soil out here, the gumball in Central South
6 Dakota, that you stick with it when it's dry
7 and it'll stick with you when it's wet. And
8 he was literally correct.

9 But back then we had a lot of
10 farmers that had cows. And they milked those
11 cows and they had what we call the milk check.

12 And you know that was always a steady source
13 of income, no matter what else happened, we
14 always used to joke about, Yeah, but I've got
15 the milk check.

16 And, you know, wind power could be
17 another steady source of income like the milk
18 check was to farmers back then, and it could
19 help in the future because now most farmers in
20 the area, they either specialize in producing
21 milk, or you could specialize in something
22 else. So you don't have that steady milk

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1 check, and that's what maybe power could --
2 wind power could do. So this is vitally
3 economically important to the people in my
4 district.

5 Now in a second area, the
6 legislature in South Dakota also recognizes
7 this great resource of wind power. And it has
8 diligently worked to encourage its
9 development. Two things I want to mention,
10 one, the state set an objective that by 2015
11 10 percent of the energy, electric energy
12 consumed would come from renewable energy. We
13 also, to help accomplish this, we provided
14 various property tax and contractors excise
15 tax reductions to help accomplish those goals.

16 Therefore, in conclusion, I urge
17 that, in your consideration of a programmatic
18 environmental impact statement and assessment,
19 that you find ways to mitigate the migratory
20 bird problem and allow the permitting of wind
21 energy in this highly wind-power rich area of
22 Central South Dakota in a manner that is more

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1 quick and more efficient. Thank you.

2 MR. HAYSE: All right. Our next
3 speaker is Steve Wegman.

4 MR. WEGMAN: Thank you.

5 My name is Steve Wegman. I
6 represent myself and wind industry tonight.
7 We thank Western Area Power Administration and
8 U.S. Fish and Wildlife in having these public
9 hearings, and we promote to have streamlined
10 approach on doing wind assessment, in doing
11 wind development, along with transmission
12 upgrades.

13 One thing you have to remember in
14 this business, it's very fragile. There are
15 many hoops to go through in order to do a wind
16 project. Wind projects can be installed in
17 relatively short amount of time once you've
18 got the approvals to go through. Typically in
19 less than 180 days you can install 100
20 megawatts.

21 But it's very important that the
22 federal government does not restrict or make

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1 the time lines too long. For example, in
2 MISO, in doing their planning process for
3 interconnections, if you put a request into
4 the queue today, you may get your answer back
5 maybe in six, seven, eight years from today.
6 If they speed up their process, they could cut
7 it down.

8 One of the things that we're very
9 concerned about in the wind industry is making
10 sure that you have a streamlined approach,
11 it's timely in fashion, that you not only
12 include the wind development, but also the
13 transmission upgrades that are necessary.

14 Wind energy is very important to
15 rural South Dakota. For example, Tatanka
16 project, which is on the McPherson-Dicky
17 County of North Dakota and South Dakota, the
18 South Dakota portion, which is less than --
19 right around 90 megawatts represents one-third
20 of the tax -- gross tax assessable property in
21 that county. These are huge monetary items
22 for our rural economies.

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1 And, again, it is a very fragile
2 business. And the opportunity for us to do
3 wind development is now. We don't need more
4 delay, we need a streamlined approach, and we
5 need to have a good time line in it. Thank
6 you.

7 MR. HAYSE: Bob Sahr?

8 MR. SAHR: Good evening. My name
9 is Bob Sahr, and I'm the general counsel for
10 East River Electric Power Cooperative. And I
11 too want to thank you for the opportunity to
12 speak at this proceeding, and we appreciate
13 the agencies taking the time to come out to
14 Sioux Falls and the other sites and having
15 these public input meetings.

16 And in particular I do want to note
17 our long-standing very positive relationship
18 with Western and we appreciate all your
19 efforts in helping us build the projects we
20 need to build on behalf of our members.

21 I'm a former public utilities
22 commissioner, and after hearing the earlier

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1 two public officials, I can see why they are
2 current public officials and I'm a former one.

3 They did a much better job, and I appreciate
4 their comments.

5 So, thank you, to Chairman Gary
6 Hanson and Representative Vehle, and I should
7 also note that Representative Lance Carson is
8 here as well, and I don't believe that he will
9 speak, but I know he's got great interest in
10 this.

11 And I've also talked to some of the
12 folks from the governor's office and there is
13 a representative from one of the state
14 agencies here tonight. So there are a lot of
15 people on the public policy side taking note
16 of the proceedings, and they appreciate the
17 opportunity to listen and perhaps eventually
18 comment as well.

19 Right now, as you know, looking
20 across this region and this state, we have
21 tremendous momentum in terms of wind energy
22 development, and we are seeing in South Dakota

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1 a number of wind farms coming online with many
2 plans for more wind farms. And I think if
3 done correctly, we see this proceeding as an
4 opportunity to streamline and to deal with the
5 important issues in a faster, more efficient
6 manner.

7 But, of course, the counter side to
8 that is certain that if it is not done
9 correctly, or if there -- things are put into
10 place that are too burdensome, or too time
11 consuming, then that certainly can have the
12 adverse effect on wind energy development.

13 East River is a generation and
14 transmission electric cooperative based in
15 Madison, South Dakota. We have 21 members,
16 20-hour cooperatives, and we have one
17 municipal system. Our members are in eastern
18 South Dakota and western Minnesota.

19 And we have a number of members
20 from Central Electric and their general
21 manager, Loren Naess is here as well, and they
22 are in the district that Mike Vehle referred

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1 to earlier. They're in an area with
2 tremendous wind resources, and they are in the
3 area where Basin Electric would like to build
4 their next wind farm in the Crow Lake area.

5 And they have plans for a 150
6 megawatts, and it would add to Basin
7 Electric's growing portfolio that includes
8 wind farms in North and South Dakota, waste
9 energy, key projects, digester, small wind
10 projects, and really it's -- Basin really is
11 being a leader in making a push towards not
12 only a self-imposed goal of 10 percent
13 renewables by 2010, but going beyond that and
14 meeting and exceeding any state objectives
15 throughout the region.

16 East River receives our power from
17 two places, as I'm sure you're aware of. One
18 is from the dam system via Western, and then
19 our supplemental wholesale power comes from
20 Basin Electric. Basin is not here tonight.
21 East River, as one of the members of Basin
22 Electric, they will be in Bismark tomorrow

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1 night.

2 And we certainly support
3 wholeheartedly their comments, and I expect
4 that they will provide a few more details in
5 tomorrow night's proceedings. But I would
6 like to just highlight a few of the issues
7 that East River and Basin have identified.

8 First of all, the Upper Great
9 Plains is one of the best wind resources in
10 the world. We support a balanced approach
11 that will allow for continued wind
12 development, as well as wildlife protection
13 because wind energy contributes to national
14 energy security, reduces carbon dioxide
15 emissions from the electric sector, reduces
16 water consumption in the electric sector, may
17 slow the loss of native grasslands and loss of
18 CRP acreages by providing a revenue source
19 alternative to cultivation.

20 Secondly, we support a programmatic
21 EIS if establishing reasonable regulations
22 regarding transmission of wildlife can help

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1 move wind energy projects forward more quickly
2 and efficiently, and it provides clarity to
3 the NEPA process.

4 Third, however, we oppose the
5 programmatic EIS if overly restrictive
6 regulations delay or end wind energy
7 development in this region, new rules are
8 extended to existing projects or those already
9 under construction or in progress. A broad
10 area of some of the best wind resources in the
11 Upper Great Plains will be excluded from
12 development out of concern for the migratory
13 bird fly ways, or rules restrict operation of
14 wind projects after construction.

15 The desire to build more renewable
16 energy certainly reflects not only the desires
17 of our member owners, and the member owners of
18 the individual cooperatives throughout this
19 region, but also really I think reflects our
20 commitment to environmental stewardship.

21 So we realize you have some
22 important issues to consider, but what we

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1 would urge is to look at this region as an
2 opportunity to develop more wind energy, do so
3 in a way that is respectful of environmental
4 issues, but at the same time allows us to go
5 out there and do a very positive thing for the
6 environment, for wildlife, which is to move
7 towards more wind energy development.

8 And with that I would close my
9 comments, but I do want to note that in this
10 audience I also see a number of land owners
11 and really, as stated by earlier speakers,
12 they are the ones who will also see some
13 additional benefits, and much benefits, and
14 have a real keen interest in this, and, in
15 fact, are the folks who will -- are balancing
16 these type of issues on a regular basis. So I
17 look forward to hearing from some of them as
18 well.

19 And I thank you for the opportunity
20 to appear tonight. Thanks.

21 MR. HAYSE: Mitch Fargen?

22 MR. FARGEN: Hello. My name is

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1 Mitch Fargen. I represent the South Dakota
2 Farms Union. I just want to say thank you so
3 much for giving us this opportunity to speak
4 in front of you guys, and thank you so much
5 for coming here to South Dakota.

6 The South Dakota Farmers Union, we
7 represent the family farmers and ranchers and
8 land owners all across South Dakota. You
9 know, just like, you know, dealing with land
10 owners, we know that our members are very
11 concerned about development of wind energy on
12 their land. They're big promoters of it, and
13 they like -- were saying earlier, they like
14 the opportunity I guess for the money and the
15 supplemental income in there also.

16 We feel this is a great opportunity
17 for our land owners, rural communities and the
18 State of South Dakota. And with that, we'd
19 also like to lend our support, full support to
20 our rural electrics here in South Dakota with
21 their wind projects across the state.

22 So I just wanted to say thank you

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1 so much for this opportunity.

2 MR. HAYSE: Loren Naess?

3 MS. NAESS: Thank you. My name is
4 Loren Naess, manager of Central Electric Co-
5 op. That's Norwegian also.

6 In spite of -- as a co-op, many of
7 this is -- comments have been said, we have a
8 land owner. We have like eight or ten land
9 owners that are here with us tonight. Instead
10 of everyone speaking, they will probably be
11 sending in a written report. But instead of
12 all of us getting up and saying the same
13 thing, we just want you to know that we do
14 have about eight or ten interested land
15 owners.

16 They're all from the Central
17 Electric area. And in that area, Crow Lake
18 that Bob Sahr just referred to, it covers
19 about 30,000 acres and it's -- we have 30 or
20 40 different land owners in that area.

21 Just one project in there that, if
22 the EIS -- you know, we're in favor of it with

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1 the rural electric programs. We've been
2 working with programmatic EISs for quite a few
3 years. We've been very cooperative in that
4 area, and anything that we can do. I can
5 remember going through the bald eagles where
6 we spread the cross arms wider for the wing
7 spans, and we've gone through the -- for the
8 triangles up there so they don't land. So
9 there are many things that we can do.

10 And one of the problems is we just
11 don't want this project to have to stop,
12 because if it stops, there's probably the
13 chance it won't go through, because we're in
14 an opportune time. And we're also -- from
15 Congress, of course, we have the slogan going
16 on, "Our Energy, Our Future". They want to
17 reduce CO2, and this is one way that we can --
18 the American people, we can use the product we
19 have.

20 I just wanted to refer, as of
21 yesterday, a quote I thought was interesting,
22 and you probably have read it from Western,

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1 but the rest of it. We got the 2007 Western
2 Area Power Administration annual report
3 yesterday. And I forgot the quote, but in
4 their reading, Tim Meeks, the administrator of
5 Western Area, he referred to the fact that
6 nine out of ten states that are in Western's
7 area are the most wind states. And in there
8 he commented too about the fact that we wanted
9 to move forward with as much wind, and I know
10 Administrator Meeks is very in favor of wind
11 development within the area.

12 Thank you very much.

13 MR. HAYSE: Next on the list is Jim
14 Headley.

15 MR. HEADLEY: Thank you for being
16 here today. It's been interesting. My name
17 is Jim Headley, and I guess I'm the guy with a
18 target on me. I live in the middle of the
19 Crow Lake project, proposed Crow Lake project,
20 wind project.

21 And I'm also on the Central
22 Electric board, so I'm kind of caught in the

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1 middle of this with my neighbors, with, you
2 know, responsibility to promote wind. And the
3 other thing that I am is I am a
4 conservationist, which is -- I'm pretty proud
5 of that.

6 In our area, Loren mentioned
7 there's about 30,000 acres, and most of us in
8 the area are in the ranching business. It's a
9 hilly, good site. It's probably similar --
10 will be similar to the Highmore site. I don't
11 know if you're familiar that, but it's a very
12 efficient site. It's one of the better sites
13 in the United States that I understand. We're
14 not too far from that. But anyway, it's a
15 ridge of hills.

16 And they wanted to -- we were
17 talking about grasslands, how we can save
18 grasslands. Well, anyway, in our county,
19 we're somewhere over -- we've lost over 50,000
20 acres of grassland probably in the last 10
21 years. That's very close. And none of the
22 grasslands -- or some of the grassland has

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1 been broken, but anyway, this particular area,
2 there's 30,000 acres.

3 I think there's an opportunity with
4 the wind projects to let people, because of
5 the additional income, to save all of those
6 grass acres in that project. None of those
7 acres have been broken, we're all in the
8 ranching business, and the whole area ties
9 together, you know, maybe eight miles, a
10 couple of miles wide. So that's really a
11 plus.

12 Because, you know, the annual
13 rental payment, if there's 100 towers and
14 there's 35 land owners, we're talking in terms
15 of \$4,000 a tower, which is pretty
16 significant. And if you understand the farm
17 program, a lot of the money goes to corn, soy
18 beans, and we're not able to get a payment, so
19 to speak, for grass, so this is very positive,
20 I think.

21 And I guess the biggest thing is
22 that -- I had some other things I wanted to

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1 say, probably about birds, but I don't want to
2 take too much time. I have identified over 90
3 species on my place, so I said I'm kind of a
4 conservationist and I think that's, you know,
5 that's quite a few species over 30 years.

6 I myself do rotational grazing and
7 try to get into the grassland easement, but
8 been short of money. And I'm not the only
9 one. There's been several others in the area
10 and this is really a good trade off. We can
11 still save the grass, which I think where the
12 Fish and Wildlife Service has been, you know,
13 really, as we saw by our figures, a really
14 important thing. And it is also a good area
15 for the prairie potholes.

16 Tax implications, that's pretty
17 good. The way in understand it, it's about
18 \$10,000 per tower going to the State of South
19 Dakota, the county and the local school
20 district, which as far as an added value
21 project, it's going to be hard to beat, you
22 know, for the taxes, that side of it.

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1 I guess really that's about all I
2 have to say, and the other thing is, we're
3 located fairly close to the major transmission
4 line that comes from Fort Thompson area
5 across, so there'll be very little above
6 ground transmission from this project that we
7 will have to, you know, build. So it's just,
8 you know, an excellent area, and I don't know,
9 I guess I'm hoping the project will go
10 through. Thank you.

11 MR. HAYSE: Our next commenter is
12 David Kolsrud.

13 MALE VOICE: He left.

14 MR. HAYSE: Left. Okay.

15 And Bert Tollefson.

16 MR. TOLLEFSON: Thank you again for
17 being here, all of you. It's very helpful at
18 this time, and you can see there's been some
19 very good presentations. I would mention that
20 Gary Hanson, who I think is still here, was
21 the mayor of Sioux Falls here before he was a
22 PUC commissioner, and also a legislator. The

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1 Sahr family is among the most prominent here
2 in South Dakota, and he's done so many things.

3 And so it's a little bit of a cross section.

4 I spoke, along with Senator Quentin
5 Burdick, at the national RAA convention in Las
6 Vegas; I was an ambassador rank at the time,
7 and we discussed elements of what we're
8 talking about tonight, including the failure,
9 for whatever reason, of getting more done with
10 wind energy when it's so logical to do it.

11 The co-ops, electric co-ops in this
12 state have really transformed life out in the
13 prairie. And we will have an opportunity, I
14 think, to further do that in terms of the
15 benefits for all agriculture and also for
16 business people related to it. I think that
17 there's a tremendous opportunity here if we
18 can harness and organize and maybe ultimately
19 it'll go right down to the individual farm
20 that wants to, if they're in a remote area,
21 have their own wind energy.

22 We had a lot of wind chargers out

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1 here, you know, for many years. I grew up as
2 a boy, and I won't get into detail on that,
3 but our families have been here since the
4 1880s. The Kenneys came over in eastern
5 Brookings County and the Tollefsons were over
6 in western Brookings County, and we were the
7 Norwegian branch. The Irish was over there at
8 Elkton.

9 But anyway it -- examples of what
10 we're talking about in terms of what happened
11 here, and what we were able to do with hard
12 work and entrepreneurship and that continues
13 to be a failure. You're going to see that in
14 the whole area. You've worked with it through
15 the years and you've seen these qualities, in
16 Montana and North Dakota and elsewhere. So
17 there's a real blessing for this area to
18 finally have this electrical power harvested
19 through wind.

20 My only concern is the
21 transmission, in getting it to the customer
22 and getting it to the user. Have you been

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1 approached -- my question -- I have many of
2 them, but I'll ask just the one, have you been
3 approached, any of you, by representatives
4 from General Electric, or any of the other
5 firms that'll have to be involved along with
6 what we're doing here, if we're going to make
7 it as a success that it can be?

8 Please respond to that if you
9 would. Thank you again.

10 MR. STAS: If you're talking about
11 the General Electric as far as manufacturing
12 turbines, and Western is not approached by
13 them, it's the people that are building the
14 wind generation. And there's various types of
15 turbines, I'm sure Karin could address that.

16 But one important point that it has
17 not been mentioned, is there are components of
18 wind turbines being manufactured in the
19 Dakotas which produces some very good jobs in
20 the Dakotas, and there is a back log of these.

21 They're being made locally, so that's an
22 important aspect of the wind production as

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1 well.

2 MR. HAYSE: All right. I thank the
3 commenters that signed up ahead of time. Are
4 there people still in the audience who would
5 like to provide some oral comments at the
6 meeting tonight? Would you please raise your
7 hand?

8 Okay. I see -- hold them high just
9 so that I can get an idea of how many people.

10 Okay. I see two.

11 So you, sir, and then you, sir.
12 And then we'll see if anybody else has
13 comments after that.

14 MR. CARLIN: I'm Brad Carlin from
15 Reliance, South Dakota. A small town,
16 Reliance, about -- a little less than 200
17 people.

18 I'm a land owner in the area, I'm
19 here with -- some of my fellow land owners are
20 here today too. I've worked with -- me and my
21 brother have worked with WAPA through their
22 equipment loan program doing wind data

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1 logging, we're working with some of our
2 neighbors, we have four 20-meter towers up in
3 the area.

4 And then also between ourselves and
5 another land owner, we got five 50- and 60-
6 meter towers up. We've been logging wind data
7 for some -- over two years now. We're in a
8 class 5 and class 6 wind area on our lands.

9 I guess I would -- what I'd like to
10 say is -- just the main thing I'd like to say
11 is it's a big economic development thing for
12 our area, and it's -- me, myself, my neighbors
13 and all, and we just say please don't make any
14 rules that are going to restrict us from being
15 on the market, our wind in our area. It's
16 just a big factor in small America.

17 MR. SCHUMACHER: Bill Schumacher,
18 again, for Intertribal COUP. And for the last
19 several years we've been working on an
20 environmental justice project. Some time in
21 the -- just a very short history, some time in
22 the '30s they began building the dams on the

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1 Missouri River, the Pick-Sloan project, and,
2 of course, you know, as Western, you're in
3 charge of producing and selling the federal
4 power off those dams.

5 When those dams were first built,
6 they were powered by 100 percent renewable
7 energy, water from the run off, you know, from
8 the snows in the winters. But then as
9 progress came, then the Army Corps of
10 Engineers was charged with many other uses of
11 that water, from downstream barge traffic, to
12 recreation, to irrigation and there became
13 less and less water available for that
14 hydropower.

15 And it slowly began to be replaced
16 as a base energy for Western with coal power
17 from private coal burning plants. Whereas
18 today these lights you see in this room are 80
19 percent from coal, polluting coal.

20 And so, you know, whether -- I
21 guess my question would be, is this
22 environmental impact statement going to have,

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1 even in a footnote, or in a section, or
2 something, the amount of greenhouse gases,
3 pollution, mercury, you know, that knocks the
4 socks -- everything else that wind, you know,
5 wind power will remove from the current
6 production of electricity by replacing that 80
7 percent that's now supplied by private coal
8 burning plants.

9 And as you know, those emissions
10 are causing climate changes, so whether it's
11 produced on native lands, whether it's
12 produced on non-Indian lands, you know, we're
13 behind 100 percent replacing that base load
14 power with renewable energy. Thank you.

15 MR. HAYSE: Anyone else that would
16 like to speak at the meeting?

17 (No response.)

18 MR. HAYSE: Okay. Just as a
19 reminder, whether you have spoken tonight or
20 not, does not preclude you from sending in
21 additional comments, either electronically via
22 the website, or via mail, or courier post, or,

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1 you know, however you would like to transmit
2 those comments to us. We would be more than
3 happy to receive them. Remember, again, that
4 the comment period, the scoping comment period
5 closes on November 10.

6 And with that said, if there's
7 nobody else that would like to speak, I'd like
8 to thank all of you on behalf of Western Area
9 Power Administration and the U.S. Fish and
10 Wildlife Service for participating in
11 tonight's public process. And we really do
12 appreciate the comments that we've received
13 here tonight.

14 MR. STAS: Could I make one other
15 point, John?

16 MR. HAYSE: Okay. Sure.

17 MR. STAS: Just one other point.
18 Also a cooperating agency, but not lead, is
19 the Rural Utility Service. They are going to
20 be cooperating with us. And if there is other
21 folks that want to be a cooperating agency, we
22 will take that request. You have to be a

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1 government or tribe -- state, local, or tribal
2 government or entity to be a cooperating
3 agency. Thank you.

4 MR. TOLLEFSON: Excuse me. I've
5 thought of one other question that related to
6 what I said earlier. We've gotten, up by Gary
7 here, a pretty substantial wind farm.

8 How many of you are familiar with
9 that?

10 That's something you'd want to
11 check out because that is done by, a lot it,
12 by Europeans. So they've brought some of
13 their technology over here, and I think this
14 is going to become increasingly global. So as
15 we look at more -- it's not as big as the wind
16 farms in other parts of this country, but it's
17 substantial right up here on the South
18 Dakota/Minnesota line at Gary. So please
19 check that out.

20 MR. HAYSE: All right. I thank
21 everybody for coming, and with that we're
22 going to conclude this meeting. Thank you.

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1 (Whereupon, at 8:40 p.m., the
2 meeting concluded.)
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