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BEFORE THE ARIZONA POWER PLANT
AND TRANSMISSION LINE SITING COMMITTEE

IN THE MATTER OF THE)	DOCKET NO.
APPLICATION OF HASHKNIFE)	L-21126A-20-0300-00187
ENERGY CENTER LLC, IN)	
CONFORMANCE WITH THE)	CASE NO. 187
REQUIREMENTS OF ARIZONA)	
REVISED STATUTES 40-360, ET)	
SEQ., FOR CERTIFICATES OF)	
ENVIRONMENTAL COMPATIBILITY)	
AUTHORIZING THE HASHKNIFE)	
ENERGY CENTER GEN-TIE PROJECT,)	
WHICH INCLUDES THE)	
CONSTRUCTION OF A NEW 500 KV)	
TRANSMISSION LINE AND)	
ASSOCIATED FACILITIES)	
INTERCONNECTING WITH THE)	
EXISTING APS 500 KV CHOLLA)	
SUBSTATION IN NAVAJO COUNTY,)	
ARIZONA.)	
_____)	

At: Flagstaff, Arizona

Date: November 16, 2020

Filed: November 23, 2020

REPORTER'S TRANSCRIPT OF PROCEEDINGS

VOLUME I
(Pages 1 through 130)

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1 BE IT REMEMBERED that the above-entitled and
2 numbered matter came on regularly to be heard before
3 the Arizona Power Plant and Transmission Line Siting
4 Committee at the High Country Conference Center, 201
5 West Butler Avenue, Flagstaff, Arizona, commencing at
6 1:27 p.m. on the 16th of November, 2020.

7

8 BEFORE: THOMAS K. CHENAL, Chairman

9 LEONARD DRAGO, Department of Environmental Quality
10 JOHN RIGGINS, Arizona Department of Water Resources
11 PATRICIA NOLAND, Public Member
12 JACK HAENICHEN, Public Member
13 MARY HAMWAY, Cities and Towns (Videoconference)
14 ZACHARY BRANUM, Arizona Corporation Commission
(Videoconference)
15 JAMES PALMER, Agriculture (Videoconference)
16 KARL GENTLES, Public Member (Videoconference,
17 Starting at Page 54)

14

15 APPEARANCES:

15

16 For the Applicant:

16

Dickinson Wright, P.L.L.C.

17

By Mr. Albert Acken

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19 For Intervenor Arizona Public Service Company:

19

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By Ms. Linda Benally, Senior Attorney, Regulatory

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22

and

23

Snell & Wilmer

24

By Mr. J. Matthew Derstine (Videoconference)

24

One Arizona Center

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25

Phoenix, Arizona 85004

1 CHMN. CHENAL: Good afternoon, everyone.
2 This is the time set to commence the hearing on CEC
3 187, Invenergy Hashknife solar project.

4 May I have appearances, please? We'll start
5 with Member Drago and go to the people live, and then
6 we'll go to the people that are appearing -- Members
7 that are appearing by Zoom.

8 MEMBER DRAGO: Good afternoon, everyone. My
9 name is Len Drago, and I work for the Arizona
10 Department of Environmental Quality.

11 MEMBER RIGGINS: Good afternoon. My name is
12 John Riggins. I'm with the Arizona Department of Water
13 Resources.

14 MEMBER NOLAND: My name is Patricia Noland,
15 and I represent the public.

16 MEMBER HAENICHEN: I'm Jack Haenichen, and I
17 don't work at all. No, I'm kidding. I represent the
18 public and I'm an electrical person.

19 CHMN. CHENAL: Member Hamway, would you like
20 to introduce yourself?

21 MEMBER HAMWAY: I think I'm unmuted now. My
22 name is Mary Hamway, and I represent cities and towns.
23 And unfortunately, I can't be there with you today, but
24 I'm doing my best to try to get connected remotely, so
25 here we go.

1 CHMN. CHENAL: You'll do fine. You'll do
2 fine.

3 Member Gentles.

4 (No response.)

5 CHMN. CHENAL: Is Member Gentles logged in?

6 (No response.)

7 CHMN. CHENAL: It doesn't look like Member
8 Gentles has signed in yet.

9 Member Branum, the newest member of the
10 Committee, I understand you've logged in. Could you
11 introduce yourself, please.

12 MEMBER BRANUM: Yes. Good afternoon,
13 Chairman, Members. My name is Zachary Branum. I work
14 for the Arizona Corporation Commission. Thank you all
15 for having me virtually. Excited to participate and
16 learn a thing or two. Thank you.

17 CHMN. CHENAL: All right. Well, thank you
18 very much and welcome.

19 And of course, Mr. -- Member Palmer, who
20 arrived just in the nick of time.

21 MEMBER PALMER: Thank you, Mr. Chairman.
22 Sorry I was a little late. Had a little road
23 construction between here and Safford and I had a
24 supervisor meeting this morning and here I am.

25 CHMN. CHENAL: Okay. Well, thank you. Thank

1 you for arriving in the nick of time.

2 My name is Tom Chenal, and I'm with the
3 Attorney General's Office.

4 And we are -- we're interested in this
5 project. And it's the brave new world. It's the
6 meeting that we're going to have, you know, both live
7 and remote with Zoom.

8 We have a quorum, so we're going to begin the
9 hearing. We've got some housekeeping items, but just a
10 couple things I would just like to emphasize. We have
11 a crack audio crew, audio visual crew. You can see
12 that they know what they're doing. But just to
13 reemphasize, the mics are all live. So when you have
14 your little sidebar conversations or you mutter stuff
15 under your breath, at me or otherwise, it's going to be
16 heard by I don't know how many -- we have 28
17 participants, so everyone will hear it.

18 The second thing is, we are limited to the
19 number of people we're allowed to have in the room.
20 And I think the Committee is allowed to have five,
21 including myself, so I think I'm going to check with
22 Ms. Innis and Mr. Acken to see if we have to have one
23 of our Members go to the board room upstairs or
24 whether, based on the requirements of NAU, which is
25 where this meeting is being held. Mr. Acken, would

1 you...

2 MR. ACKEN: Thank you, Mr. Chairman. Bert
3 Acken on behalf of the applicant, Hashknife Energy
4 Center.

5 Unfortunately, yes, the maximum number of
6 Committee Members we can have right now is five,
7 because we're going to have three people from the
8 applicant, one from APS, and the court reporter. The
9 facility's AV folks don't count, so that means five
10 Committee Members at any one time.

11 We do have a conference room upstairs that
12 someone can go and watch, participate, speak -- and be
13 aware that you are live mic'ed up there -- and we're
14 hopeful that you'll have the same experience that you
15 would in the room. But given the restrictions on the
16 number of people in the room, we do have to limit it to
17 five during the evidentiary portion of the hearing.

18 CHMN. CHENAL: So I just wanted to leave it
19 up to -- see if there's a Member that would volunteer.
20 And I think we just have to rotate, so tomorrow
21 we'll switch it up. So I don't know if there's someone
22 who --

23 MEMBER NOLAND: I'll go.

24 CHMN. CHENAL: It's a very nice facility.

25 MEMBER NOLAND: I'll go.

1 MEMBER PALMER: I'm the last one in. If you
2 want me to go up, I'll be glad to.

3 CHMN. CHENAL: Well, I'd just rather leave it
4 up to the Members.

5 MEMBER NOLAND: Well, he hasn't gotten
6 settled, so let him go. I'll go tomorrow.

7 MEMBER PALMER: Okay.

8 CHMN. CHENAL: Okay. I'm going to ask that
9 we take just a couple-minute pause here to get Member
10 Palmer situated upstairs and logged in. We'll go off
11 the record for a few minutes.

12 (Off the record from 1:33 p.m. to 1:38 p.m.)

13 CHMN. CHENAL: Thank you, Member Palmer, for
14 agreeing to go upstairs in the conference room
15 upstairs, which has a Zoom feed.

16 One more thing to note. Another requirement
17 of the venue is that we have our masks on at all times,
18 even when we're speaking. So just a reminder that we
19 have to adhere to that.

20 Let's start with -- the next step would be
21 enter the appearances of the applicant and the party
22 that filed the motion, APS, the motion to intervene.
23 So let's start with appearances.

24 MR. ACKEN: Thank you, Mr. Chairman. Bert
25 Acken of Dickinson Wright on behalf of the applicant,

1 Hashknife Energy Center. With me up front here is
2 Susan Innis, project manager for Invenergy, and Derek
3 Holscher of Burns McDonnell.

4 CHMN. CHENAL: Thank you very much.

5 Ms. Benally, would you enter your appearance?

6 MS. BENALLY: Good afternoon, Chairman
7 Chenal, Committee Members. Linda Benally, regulatory
8 counsel with APS, and Matt Derstine, Snell & Wilmer,
9 representing APS.

10 CHMN. CHENAL: All right. Thank you. And
11 I'll note that Mr. Derstine is here on the premises,
12 but he's in the conference room upstairs.

13 Preliminary matters. We'll take a break
14 about every 90 minutes. We anticipate the hearing
15 going, obviously, this afternoon. This evening at 6:00
16 there's going to be a call to the public. We have made
17 arrangements for people to appear and provide public
18 comment either here or in -- by Zoom.

19 The hearing we expect to continue, obviously,
20 tomorrow morning. And maybe, depending on when we
21 finish tomorrow, we either start deliberations or we
22 wait until Wednesday morning. I know my preference and
23 I know the preference of a number of the Members -- not
24 every one, but a number of the Members -- is that we
25 start the deliberations fresh in the morning. And in

1 this case, as we know, there's going to be two CECs, so
2 it's going to take a fair amount of time to get through
3 it, so let's just see where we are tomorrow. But I
4 think in the meetings that I've had -- we've had a
5 number of meetings before today with the applicant and
6 with APS because of the unique times we're in and how
7 to conduct this hearing, and I think we will expect
8 this meeting -- that this hearing will conclude
9 certainly on Wednesday.

10 So one item of -- we need to address is the
11 motion to intervene that was filed by APS. That's a
12 motion we have to vote on. It's not as a matter of
13 right. APS is involved with this project based upon
14 the application.

15 Ms. Benally, would you like to say a few
16 words as to the reason why you believe intervention is
17 appropriate in this case for APS, or Mr. Derstine? I'm
18 not sure who is going to speak. But Ms. Benally, if
19 it's you, just a short statement of why you believe
20 intervention would be appropriate for APS.

21 MS. BENALLY: Thank you, Mr. Chairman. I
22 appreciate the opportunity to be here. APS does have
23 an interest in this case and this proceeding for a
24 number of -- pardon me -- a number of reasons, and I'll
25 walk through them very briefly.

1 First, the proposed Gen-Tie line will
2 interconnect directly into the APS-owned 500 kV Cholla
3 substation, which is located in Joseph City, Arizona.
4 It's also going to be located within the controlled
5 area at the Cholla power plant.

6 CEC-2, as it's described in the applicant's
7 application, describes the Gen-Tie line to be spanning
8 0.3 miles, and it will be crossing APS property and
9 also involve a combination of single and double circuit
10 structures and it will be about three or four
11 structures.

12 APS also, as a part of the interconnection,
13 will be rebuilding an existing 230 kV transmission line
14 so that it becomes a 500/230 kV double circuit line to
15 carry the new 500 kV Gen-Tie line.

16 The applicant has requested two Certificates
17 of Environmental Compatibility to address areas --
18 pardon me -- ownership of specific portions of the
19 Gen-Tie line. So you have CEC-1, which is intended to
20 cover the applicant's facilities, and CEC-2 is intended
21 to cover the facilities that will be constructed within
22 APS's controlled area at the Cholla power plant and in
23 the future will be owned by APS.

24 The intent is for Invenergy, the applicant in
25 this case, to transfer the CEC-2 and for APS to accept

1 transfer of that CEC-2 at a future date if the Line
2 Siting Committee and the Arizona Corporation Commission
3 grant the two CECs.

4 So it's for these reasons that APS has a
5 significant interest in the terms and conditions of
6 CEC-2. It's imperative that APS have standing of an
7 intervenor to timely respond to developments that may
8 occur during the course of the hearing and at the time
9 that this matter is heard by the Commissioners at the
10 Open Meeting. So based on these reasons, APS certainly
11 would be substantially affected by any decision that
12 comes out of this Committee, and ultimately the
13 Commission, so we ask that this Committee grant APS's
14 motion to intervene. Thank you.

15 CHMN. CHENAL: Member Noland.

16 MEMBER NOLAND: Chairman Chenal, I move that
17 we grant the intervenor status to APS.

18 MEMBER HAENICHEN: Second.

19 CHMN. CHENAL: Is there any discussion?

20 (No response.)

21 CHMN. CHENAL: All in favor say aye.

22 (A chorus of ayes.)

23 CHMN. CHENAL: This is going to be
24 interesting, I just realized. How is the court
25 reporter going to know who is saying "aye" if people

1 are appearing by video?

2 MEMBER NOLAND: It doesn't matter, unless we
3 take --

4 CHMN. CHENAL: Oh, sure.

5 MEMBER NOLAND: -- a voice vote.

6 CHMN. CHENAL: Right.

7 Any nays?

8 (No response.)

9 CHMN. CHENAL: Okay. So the motion is
10 approved.

11 And I assume the applicant has no objection
12 to the intervention of APS in this case?

13 MR. ACKEN: We support the intervention.
14 Thank you.

15 CHMN. CHENAL: All right. So the motion is
16 granted. APS is now allowed to intervene in the
17 action -- in the matter.

18 MS. BENALLY: Thank you.

19 CHMN. CHENAL: I don't have any other
20 requests for intervention by any other parties.
21 There's been no notices of intervention by parties of
22 right under the statute. So the two parties to this
23 proceeding will be the applicant and APS.

24 And based on the meetings we had, I know the
25 parties, including the intervenor, APS, have complied

1 with the procedural order. And we'll get into the --
2 in the evidence, we'll talk about the posting and the
3 notice that was given, but the exhibits have been
4 exchanged and testimony. So are there any matters that
5 the applicant or APS wish to discuss before we open the
6 hearing to the applicant?

7 MR. ACKEN: No, Mr. Chair.

8 MS. BENALLY: No, Mr. Chair.

9 CHMN. CHENAL: Okay. Before we start with
10 the opening statements, let me just make a note that
11 based on the virus and the situation we're in, I kind
12 of decided that a tour would not be appropriate, at
13 least a tour with a bus with all the Members as we
14 normally do. But I have asked the applicant to come up
15 with a more robust flyover, a Google flyover or however
16 they want to do it, so we'll have the benefit of that.
17 But in this case and the next case we'll be hearing the
18 week after next, I think a tour would be inappropriate
19 given the times. So there won't be a tour in this
20 case, but we'll have a more expanded Google flyover.

21 All right. Let's begin next with -- or,
22 start next with the opening statements, Mr. Acken.

23 MR. ACKEN: Thank you, Mr. Chairman. And I
24 just have a couple brief remarks, if we would go to the
25 next slide. So this is Figure 2 from the application.

1 It shows the solar facility in yellow, the proposed
2 transmission line in blue, the alternate transmission
3 line in orange, and then you see a variety of other
4 lines coming from the Cholla substation. All of this
5 land is unincorporated Navajo County. The Gen-Tie in
6 both the preferred and alternate route are on private
7 land. A small portion of the solar facility is located
8 on State lands, but it is otherwise under private land
9 ownership as well.

10 MR. DERSTINE: Mr. Chairman.

11 CHMN. CHENAL: Yes.

12 MR. DERSTINE: This is Matt Derstine. I'm
13 sorry. I'm viewing the remote screen -- okay. There,
14 it's been fixed. We're just seeing Mr. Acken and we're
15 not seeing the map, but it looks like we just switched
16 over, so I appreciate that. Thank you.

17 CHMN. CHENAL: Okay, good.

18 MR. ACKEN: Thank you. You definitely want
19 to look at the map and not my face, so we'll try to
20 make sure that we have that squared away.

21 So just again, to orient those who had the
22 unfortunate experience of just watching me, the solar
23 field is in yellow, the preferred route is in blue, the
24 alternate route is in orange, and it follows existing
25 transmission lines from, I would say, the southeastern

1 portion of the project. Both of those interconnect at
2 the Cholla substation. You see the Cholla facility in
3 green on this map. And then again, from that Cholla
4 location, you see numerous power lines that come out of
5 the Cholla substation. And so we're requesting
6 approval for, again, the preferred or the alternative
7 route, a 3-mile -- approximately 3-mile transmission
8 line, all on private land, with the support of the
9 landowner.

10 Next slide. So you heard Ms. Benally mention
11 this in her request for intervention on behalf of APS.
12 The one unique factor of this project is the request
13 for two CECs. You see a schematic on the screen here.
14 This is Figure G-1 from the application. We'll have
15 other figures as well. But as Ms. Benally mentioned in
16 her request to intervene, there's going to have to be
17 two CECs for this one Gen-Tie. And the CEC-1 will
18 cover the new project substation at the solar facility
19 to the point of ownership change; those will be owned
20 by Hashknife. And then from the point of ownership
21 change to the interconnection at Cholla, those
22 facilities will ultimately be owned by APS.

23 Next slide. So Ms. Innis, in her testimony,
24 will cover the topics that I just mentioned. She'll be
25 providing an overview of the project, a virtual tour.

1 She'll also touch on the project benefits associated
2 with this project. You see them listed there: Quite a
3 number of construction jobs, full-time jobs as well,
4 property tax revenue, economic activity, and minimal
5 impact. This is why, you'll see in the testimony, that
6 this project has the support of the local community, it
7 has its entitlements from Navajo County, and the
8 support of the landowner.

9 Next slide. This is our summary of
10 environmental compatibility. Mr. Holscher will provide
11 the summary. As you see here, as I mentioned earlier,
12 complies with local land use planning. It's a great
13 location. I mean, it's within 3 miles to an existing
14 coal-fired power plant substation with all the existing
15 infrastructure you could ever want or need, minimal
16 impacts to land uses, cultural resources, and visual
17 resources.

18 And for those reasons, our witnesses will
19 testify that this project is environmentally
20 compatible, and we will ask that you agree and reach
21 that conclusion.

22 We have four witnesses. As I mentioned,
23 Susan Innis is the project manager for Invenergy. We
24 have three witnesses to discuss environmental
25 resources. Tom Koronkiewicz will be appearing remotely

1 to discuss biological and cultural resources, Randy
2 Simpson will be discussing visual resources, and Derek
3 Holscher will be discussing land use and cultural and
4 providing the summary and overview regarding
5 environmental compatibility.

6 We have our hearing notebook that you should
7 all have that are here, and I hope those of you who are
8 participating remotely received it. We have premarked
9 six hearing exhibits. 1 is the application. INV-2 is
10 the testimony slides. Public notice documentation is
11 INV-3. The two Certificates -- the two proposed
12 Certificates of Environmental Compatibility are INV-4
13 and 5. And then there's a letter from the ACC Utility
14 Division that's been marked as -- premarked as INV-6.

15 We really appreciate all of you coming here
16 in person or appearing virtually. We're obviously in
17 uncharted waters and appreciate your patience and
18 understanding and willingness to go forward and hear
19 about this project. It's a cool project, it's an
20 exciting project, and in a location that really could
21 benefit from having this solar resource in the area.

22 So with that, I'd be happy to take any
23 questions, and thank you again for your time.

24 CHMN. CHENAL: Any questions from any of the
25 Members of Mr. Acken?

1 (No response.)

2 CHMN. CHENAL: Okay. Ms. Benally, will you
3 be providing an opening statement on behalf of APS?

4 MS. BENALLY: Thank you, Mr. Chair. I do
5 have a couple of comments. First of all, I'd like to
6 thank the Committee for granting intervention in this
7 case to APS. I have pretty much covered the -- APS's
8 interest in my comment supporting intervention, and I
9 believe that that provided a good understanding of why
10 APS is intervening -- why APS has intervened in the
11 case.

12 I'd also like to just state that we do --
13 pardon me -- we have worked with the applicant,
14 Hashknife, over the last four, six weeks, or so in the
15 CEC-2, which will be discussed later, and they have
16 incorporated many of the comments and feedback that APS
17 has provided. However, we would like to be -- reserve
18 the right to present a witness. Brad Larsen is the
19 project manager from the APS line siting team. And
20 we'd like to do so in the event that there's some
21 information that we believe should be covered in the
22 record that perhaps the applicant has not covered. And
23 certainly, we're also happy to present the witness if
24 the Chair or the Committee deem it necessary and
25 appropriate for APS to present its witness, but we are

1 really just reserving the right to do so if we feel
2 it's necessary. Thank you.

3 CHMN. CHENAL: Well, we're always happy to
4 hear from Mr. Larsen. He's well known to the
5 Committee.

6 All right. Any questions from the Committee
7 regarding anything mentioned by Ms. Benally?

8 (No response.)

9 CHMN. CHENAL: Okay. With that, Mr. Acken,
10 if you'd like to begin with the presentation of your
11 case.

12 MR. ACKEN: Thank you, Chairman Chenal.
13 Hashknife calls Susan Innis, project manager
14 for Invenergy.

15 CHMN. CHENAL: Let me know when you're ready,
16 Ms. Innis. I will swear you in as a witness. Would
17 you prefer an oath or an affirmation?

18 MS. INNIS: An oath is fine.

19 CHMN. CHENAL: Okay. Would you please raise
20 your right hand.

21 (Susan Innis was duly sworn by the Chairman.)

22 CHMN. CHENAL: Thank you.

23 Mr. Acken.

24 MR. ACKEN: Thank you, Mr. Chairman.

25 ///

1 previous employers, including Xcel Energy, the Colorado
2 Governor's Energy Office, and Western Resource
3 Advocates.

4 My education includes a master's degree in
5 public administration from the University of Colorado
6 Denver, a graduate certificate in energy planning and
7 sustainable development from the University of Oslo in
8 Norway, and a bachelor of science in biology from
9 McGill University in Montreal, Canada.

10 MR. ACKEN: And if we could, for the slide
11 deck, if you guys could move forward just to the
12 overview and then the next one that has Ms. Innis --
13 thank you.

14 BY MR. ACKEN:

15 Q. Describe your role in the Hashknife Energy
16 Center project.

17 A. I'm Invenergy's project developer for the
18 Hashknife Energy Center. My role includes all aspects
19 of development, from working with landowners on lease
20 agreements to engaging with local stakeholders,
21 obtaining local entitlements and permits, and
22 coordinating with environmental and engineering
23 colleagues on site-specific due diligence activities.

24 Q. Provide an overview of your testimony here
25 this afternoon.

1 A. In my testimony I'll provide background
2 information about Invenergy as a company and describe
3 the transmission project for which we're seeking
4 approval from the Line Siting Committee. I'll present
5 the virtual video tour, a Google Earth flyover, to give
6 an overview of the project location. And I'll also
7 describe our public notice and outreach efforts around
8 this project and provide a summary of the need and
9 benefit this project meets.

10 Q. Who are Hashknife and Invenergy? I don't
11 believe they've presented before the Committee before.

12 A. Could I have the next slide, please.

13 Invenergy is the world's private -- largest
14 privately held sustainable energy developer and
15 operator. Hashknife Energy Center, the applicant for
16 this proceeding, is a wholly owned subsidiary
17 of Invenergy. To date, Invenergy has developed more
18 than 24,600 megawatts of large-scale wind, solar,
19 natural gas, and battery energy storage facilities
20 across the globe.

21 Next slide, please.

22 This map shows our projects that are online
23 worldwide across North America, Latin America, Japan,
24 and Europe. In addition to this generation
25 portfolio, Invenergy has proven experience building

1 transmission lines and electric substations. We've
2 constructed over 400 miles of transmission lines and
3 currently operate 230 miles of transmission.

4 Q. Describe the Hashknife Gen-Tie project.

5 A. Next slide, please.

6 CHMN. CHENAL: Let me just interject for a
7 second. That's a lot of material on that slide. I was
8 halfway through reading it, and we're going to the next
9 slide already. Let's just slow it down a little and
10 give us an opportunity to read the slides.

11 MS. INNIS: Yes, sir. Let's go back.

12 CHMN. CHENAL: Maybe I'm a slow reader, but
13 if it's up there, it's there for a reason, I want to
14 read it.

15 MS. INNIS: Of course, Mr. Chairman. I will
16 take it slow.

17 I can highlight a couple of the projects that
18 are listed on here. The Grand Ridge Energy Center in
19 Illinois is a unique project that features solar, wind,
20 and battery energy storage all at the same location.
21 We're also very proud of our Santa Rita East Wind Farm
22 in Texas, over 300 megawatts there. And as I
23 mentioned, in addition to solar, wind, and battery
24 energy storage, we also have experience developing
25 natural gas-fired power plants. The Lackawanna Energy

1 Center is highlighted in Pennsylvania there.

2 CHMN. CHENAL: Thank you.

3 MS. INNIS: Next slide, please.

4 To give you an overview of the Hashknife
5 Energy Center and generation tie line project, let me
6 just first walk through what you're seeing on the slide
7 here. This is Figure 2 from our application. This
8 area is right adjacent to the Cholla energy plant that
9 APS owns. We're just outside Joseph City, just on the
10 south side of Interstate 10. Our solar project area is
11 in the yellow boundary here. This is primarily private
12 land owned by Aztec Land & Cattle, with one section
13 with a lease pending with Arizona State Land
14 Department.

15 In our application, we are requesting
16 approval for two CECs, and we'll provide more detailed
17 maps later. We're also asking approval for a preferred
18 route shown here in blue. The project substation would
19 be located in this portion of the solar project area,
20 and this would be just over 3 miles into the Cholla
21 substation.

22 We're also requesting approval for an
23 alternative route that would come from the southern
24 portion of the solar project area, with the project
25 substation located here, and parallel existing

1 transmission lines up to the Cholla substation here.

2 The Hashknife Energy Center is a solar
3 photovoltaic power plant proposed to be up to 400
4 megawatts nameplate capacity that would be paired with
5 a battery energy storage system. This project site was
6 selected to take advantage of access to existing
7 transmission infrastructure and capacity, tap into
8 Arizona's excellent solar resources, compatibility with
9 the local environment and land uses, and our ability to
10 work with willing landowners.

11 BY MR. ACKEN:

12 Q. So why are you requesting two CECs for one
13 Gen-Tie?

14 A. We believe two Certificates of Environmental
15 Compatibility would be required to address ultimate
16 ownership of specific portions of this generation tie
17 line. The applicant, Hashknife Energy Center, will
18 ultimately own the portion of the transmission from the
19 solar generating source up to the point of ownership
20 change outside the Cholla substation. This is the area
21 we call CEC-1.

22 The applicant is also requesting a separate
23 CEC, which we would intend to transfer to Arizona
24 Public Service, as they would ultimately own the
25 portion of the transmission line inside the fence and

1 property line of the Cholla substation, and that would
2 be CEC-2.

3 Q. And you may have already described this, but
4 using Figure 1, can you show which portion of the
5 project each CEC includes?

6 A. Sure. We have a one-line diagram here.
7 Shown in green is CEC-1. This represents the area that
8 would go out to the solar project area over here. On
9 our maps and diagrams here, we refer to this as the
10 point of ownership change. And CEC-2 would cover the
11 wires from this transmission structure through the
12 facilities into the existing Cholla 500 kV substation.

13 CHMN. CHENAL: Quick question, Ms. Innis.
14 Oh, your laser pointer is much larger, the dot is much
15 larger. Yeah. But what is the -- I can't read what
16 those letters are. What does that signify? Because
17 CEC-2 seems to terminate at that point.

18 MS. INNIS: Thank you for the question,
19 Mr. Chairman. This is the point of interconnection, or
20 POI, as shown on that diagram.

21 CHMN. CHENAL: Thank you.

22 MEMBER HAENICHEN: Mr. Chairman.

23 CHMN. CHENAL: Member Haenichen.

24 MEMBER HAENICHEN: Thank you.

25 Just so I understand, you mentioned earlier

1 you were looking for a CEC on the preferred line, and
2 then I believe the language you used was we're also
3 looking for approval of a CEC for the alternate line.
4 Do you intend to walk out of here with approval for
5 both lines?

6 MS. INNIS: That's our intention.

7 MR. ACKEN: Mr. Chairman and Member
8 Haenichen, let's make sure we understand the question.
9 We do -- are hopeful to have approval for both CEC-1
10 and CEC-2. If your question is do we want approval for
11 both the preferred and the alternate, the answer is no.
12 We're bringing --

13 MEMBER HAENICHEN: Oh, okay. Well, that was
14 the language that Ms. Innis used.

15 MR. ACKEN: Yeah, we're bringing forward two
16 alternatives. The preferred is the applicant's
17 preferred, and Ms. Innis will explain why that is. But
18 no, we're not asking for the flexibility to have both.

19 MEMBER HAENICHEN: Thank you.

20 BY MR. ACKEN:

21 Q. Ms. Innis, what is the project timeline?

22 A. We're expecting Hashknife Energy Center to be
23 operational by the end of 2023.

24 Q. Next, I'd like you to describe landownership
25 along both the proposed and alternate route.

1 A. Could I have the next slide, please.

2 This is another diagram of the project area
3 so you can orient yourselves again. This is Figure A-1
4 from our application, and here we're showing the
5 different categories of landownership. In gray we have
6 private land; that's the bulk of the land class you see
7 on this chart. In blue, those are State-owned lands.
8 And then the tan color is Bureau of Land Management.
9 Our project area for the solar project and the
10 generation tie lines is entirely within Navajo County.
11 And you can see, the transmission line preferred path
12 is entirely on private land, as well as the alternate
13 is entirely on private land here.

14 CHMN. CHENAL: Ms. Innis, is any of the
15 project, either the preferred or the alternate route
16 and the substation, on BLM land?

17 MS. INNIS: No, there is no BLM land in this
18 project area. All of the BLM land is on the north side
19 of the highway shown here.

20 CHMN. CHENAL: Thanks.

21 BY MR. ACKEN:

22 Q. With respect to landownership, what is the
23 position of Aztec Land & Cattle? You said that they
24 were the landowner in the area.

25 A. Aztec Land & Cattle is the primary landowner

1 in our project area. We have a lease agreement with
2 them for both the solar project area, as well as the
3 transmission line easements needed for both the
4 preferred and the alternative route.

5 Q. Let's next talk about jurisdiction. What
6 jurisdictions does the proposed and alternate routes
7 cross?

8 A. These are both entirely within Navajo County,
9 an unincorporated part of Navajo County.

10 Q. And following up on Member Haenichen's
11 question, why is the preferred route preferred?

12 A. The preferred route has several advantages.
13 First off, it is a shorter route --

14 Q. Oh, I'm sorry. I may have -- I may have
15 jumped ahead here. Let's have you first describe the
16 requested corridors.

17 A. Sure. Let's have the next slide, please.

18 Here is the another drawing showing the CEC-1
19 preferred corridor. Again, these are the facilities
20 that the applicant, Hashknife Energy Center, would
21 ultimately own. Just to orient you to what you're
22 seeing on the screen, this is the solar project area
23 here, and then the preferred transmission line route is
24 shown here. Again, the project substation would be in
25 this area, and the approximately 3-mile transmission

1 corridor is here.

2 We are requesting a corridor width of a
3 thousand feet. Ultimately, we would plan to build on
4 approximately 200 feet right-of-way within that
5 1,000-foot corridor. The width of that corridor would
6 allow us some flexibility in engineering design,
7 particularly related to the river crossing and crossing
8 railroad to get from the project area up to the Cholla
9 substation.

10 You can see CEC-1, again, goes from the solar
11 project substation up to the point of ownership change,
12 or what we label here the point of physical
13 demarcation. That would be the end of CEC-1 portion of
14 the facilities and the start of CEC-2 portion of the
15 facilities there.

16 We'll go to the next slide.

17 And then for the alternate requested
18 corridor, again, here is the solar project area. In
19 this case, the solar project substation would be in
20 this area, and the alternate transmission corridor
21 would come up here and into the Cholla substation.
22 This is a little bit longer of a route than the
23 preferred, but we are requesting the same
24 thousand-foot-wide corridor with the intention for an
25 ultimate 200-foot-wide right-of-way for the 500 kV

1 transmission line.

2 MEMBER NOLAND: Mr. Chairman.

3 CHMN. CHENAL: Member Noland.

4 MEMBER NOLAND: Mr. Chairman, I'm having
5 trouble seeing those widths on these particular
6 exhibits. Can you point me to them? They're not...

7 MS. INNIS: Yeah. These exhibits are both
8 from our proposed CECs.

9 Bert, maybe you can help me out with the
10 exact exhibit number.

11 MR. ACKEN: Sure. So you can find these on
12 Slide 8 and 9 of INV-2, if you want to look at the hard
13 copy of the slide presentation. And as Ms. Innis
14 indicated, these come directly -- are intended to match
15 precisely the proposed maps that we have included with
16 the proposed forms of order. So when she's referring
17 to CEC-1, both the proposed and alternate corridor, if
18 you look at INV-4, at the very end of INV-4, you will
19 also see that same graphic depiction.

20 To your question about the width, you know,
21 the testimony is that it's a thousand-foot width for
22 the entire length of the 3-, 3-and-a-half-mile route.

23 MEMBER NOLAND: Mr. Chairman, Mr. Acken, if
24 we are going to put maps with the CEC, I'm going to
25 want to see those widths on the maps directly --

1 MR. ACKEN: Understood.

2 MEMBER NOLAND: -- on the routes.

3 MR. ACKEN: Understood.

4 MEMBER NOLAND: Thank you. I might as well
5 tell you now, rather than at the end and have to
6 scramble.

7 MR. ACKEN: We appreciate that. Thank you.

8 MEMBER NOLAND: One other question.

9 MR. ACKEN: Sure.

10 MEMBER NOLAND: The Cholla plant is due to
11 close in, I think, two phases. Are you aware of those
12 plans?

13 MS. INNIS: Yes, I am.

14 MEMBER NOLAND: And will that then provide
15 more space on lines that are owned by APS in delivering
16 services, electrical services?

17 MS. INNIS: I think that's fair to say. We
18 have a large generator interconnection agreement with
19 APS for this facility, so they've shown us what the
20 transmission upgrade cost would be to accommodate this
21 project. And we've reviewed the available transmission
22 capacity both before and after the power plant goes
23 offline and retires, so we believe there's ample
24 capacity at this location.

25 MEMBER NOLAND: And if I remember right -- I

1 live in Navajo County, so I kind of keep track of
2 this -- I think one of the generators at the Cholla
3 plant is due to be closed down the end of this year and
4 then the others by the end of 2025?

5 MS. INNIS: I would have to double-check the
6 specific dates, but that sounds correct to me.

7 MEMBER NOLAND: Okay, thank you.

8 BY MR. ACKEN:

9 Q. Okay. Ms. Innis, I may have gotten us a
10 little out of order. Before you turn to CEC-2, now
11 that you have shown both of the proposed corridors for
12 the preferred and alternate route, this may be a good
13 time to explain why the preferred is the preferred.

14 A. Sure. The preferred route has several
15 advantages. First off, it's an overall shorter
16 distance with fewer line losses, which means it would
17 be more efficient and more economical to operate. The
18 shorter route, by nature, has fewer overall impacts and
19 reduces the potential conflicts with constructing and
20 operating around other existing transmission lines.

21 The preferred route also, as you'll see when
22 we get into some more of the drawings, in addition to
23 being shorter, it's a little bit more of a direct route
24 into the Cholla substation. The alternate route
25 actually has a number of sharp turns once we get across

1 the river crossing and over the railroad tracks. To
2 get into the substation, we have to make sort of a very
3 sharp right turn. So we believe the preferred route is
4 going to be easier to construct and own and operate.

5 We'll have additional testimony about the
6 preferred versus alternative routes from Derek Holscher
7 and Tom Koronkiewicz.

8 Q. We talked about the 1,000-foot corridor
9 width. Can you state again the requested right-of-way?

10 A. Correct. For CEC-1 we're requesting approval
11 for a thousand-foot-wide corridor, and the right-of-way
12 would be 200 feet within that thousand-foot corridor.

13 CHMN. CHENAL: Ms. Innis, a quick question on
14 the alternate route, if you go back a slide. There's
15 existing transmission lines, are there not, coming from
16 Cholla substation?

17 MS. INNIS: Correct.

18 CHMN. CHENAL: So what's the distance between
19 the alternate line, if that were chosen, and the
20 existing transmission lines?

21 MS. INNIS: We would obviously be outside of
22 the APS right-of-way for those existing transmission
23 lines. Within the thousand-foot corridor we'd have
24 some flexibility to maximize spacing. The engineering
25 design would likely take into account the distance

1 needed to ensure safe operation of the new line, given
2 the existing lines in that area.

3 CHMN. CHENAL: Can you just approximate,
4 though, generally, how far apart the two lines would
5 be?

6 MS. INNIS: I would have to double-check
7 exactly what the APS right-of-way is there. Assuming
8 it's at least 200 feet, and their center line is
9 100 feet from either side of the edge of their
10 right-of-way, you've got their line, plus a hundred
11 feet, the edge of our right-of-way, it would be at
12 least 200 feet between the two lines.

13 CHMN. CHENAL: Okay, thank you.

14 BY MR. ACKEN:

15 Q. If you would, turn to Slide 10 and describe
16 the requested corridor for CEC-2.

17 A. Thank you. Here is a diagram showing, again,
18 CEC-2. So this is the short segment. After we have
19 the point of physical demarcation or point of ownership
20 change here, this is the portion that APS would
21 ultimately own on their property into their substation.
22 Because of the infrastructure that is already here in
23 this area, a thousand-foot-wide corridor just isn't
24 feasible, so here we're asking for a 500-foot-wide
25 corridor. And that would give us flexibility, given

1 the current uses on the property, to construct the
2 facility within that 500-foot. Here we would also
3 expect a 200-foot nominal right-of-way.

4 Q. What type of --

5 CHMN. CHENAL: Not to speak for Member
6 Noland, but I'm sure her comment regarding wanting to
7 see the corridor width depicted on CEC-1 would apply to
8 CEC-2.

9 MR. ACKEN: Understood.

10 BY MR. ACKEN:

11 Q. What are the typical transmission structures
12 that will be used for the project?

13 A. Next slide, please.

14 So here I'm going to show you typical
15 transmission structures. In our application, we
16 provided a number of example structure types that could
17 be used for this sort of facility. Today I just wanted
18 to highlight for you typical transmission structures.
19 These would most likely be either steel monopoles,
20 steel H-frames, 3-pole, or lattice structures.

21 That final selection of structure type will
22 be in our final engineering, but lattice structures are
23 the most typical for a 500 kV facility of this kind.
24 So for CEC-1, where it's just the 500 kV, this is the
25 example structure. We've got some representative

1 dimensions here for height and width.

2 MEMBER HAENICHEN: Mr. Chairman.

3 CHMN. CHENAL: Yes, Member Haenichen.

4 MEMBER HAENICHEN: Looking at CEC-1, it looks
5 like that's for three-phase, is that right? Do I see
6 three lines there?

7 MS. INNIS: Correct.

8 MEMBER HAENICHEN: And the tower on the right
9 does not have three lines, is that correct?

10 MS. INNIS: That's correct.

11 MEMBER HAENICHEN: Well, which one is going
12 to -- how is it going to be done?

13 MS. INNIS: Give me just one second. Sorry,
14 I'm just getting a more close-up view of what you're
15 seeing on the screen, because my eyes aren't good
16 enough to see quite that far.

17 So you asked -- here we've got Figure G-3,
18 the typical single circuit 500 kV structure here. And
19 I think I just misspoke. We are planning single
20 circuit 500 kV for CEC-1.

21 And then the drawing for Figure G-2 for CEC-2
22 here, this is the double circuit. One circuit would be
23 the existing 230 kV, and then we would add the 500 kV
24 there single circuit.

25 MEMBER HAENICHEN: Okay. So the phases go

1 vertically on the right-hand drawing and horizontally
2 on the other?

3 MS. INNIS: Yes, thank you.

4 MEMBER HAENICHEN: That's what was confusing
5 me. Okay, thank you.

6 BY MR. ACKEN:

7 Q. Ms. Innis, before you switch to the next
8 diagram, you referenced Figure G-2 for CEC-2. Is that
9 Figure G-12, just for the record?

10 A. Yes. It was Figure G-12 for the double
11 circuit for CEC-2 and Figure G-3 for CEC-1.

12 Q. Thank you. Next, describe monopoles if they
13 are used.

14 A. Next slide, please.

15 And just to show you an alternative
16 transmission structure that could be used for this
17 project, on the left side is a steel monopole design
18 that could be used for CEC-1. That comes from Figure
19 G-5. And again, this is a typical single circuit
20 500 kV steel monopole for CEC-1.

21 And then on the right side here, from our
22 application Figure G-11, this is the typical 500 kV
23 230 steel monopole here for the double circuit for that
24 CEC-2 portion of the project.

25 Q. Describe the new substation.

1 A. Next slide, please.

2 This is the proposed project substation, the
3 500 kV substation that will take the solar-generated
4 electricity from the solar project and step it up from
5 34.5 kV up to 500 kV to meet the interconnection
6 voltage.

7 I can walk you through some of the equipment
8 here. We're expecting to have up to two main power
9 transformers, two sets of 500 kV circuit breakers,
10 approximately 10 or 12 34.5 kV breakers, switches, a
11 control house, buswork, jumper conductors, lightning
12 protection masts, and then it will all be enclosed in
13 an approximately 7-foot-tall chain-link fence.

14 MR. ACKEN: We're going to shift,
15 Mr. Chairman, to the virtual tour at this time, if
16 you'd like us to proceed.

17 CHMN. CHENAL: Yeah. Just a question on the
18 fence, 7-foot fence. I would have assumed it was a
19 higher fence, I guess, than 7 feet. More of, I guess,
20 a comment. It just seems like a pretty expensive and
21 very important, you know, piece of equipment -- I mean,
22 of a system. So it just seems -- is this substation
23 within the solar facility, so it's -- there's other
24 protections as to the substation?

25 MS. INNIS: Thanks for the question. We do

1 comply with NERC guidelines, the National Electric
2 Regulatory -- I can't remember what NERC stands for --
3 NERC safety requirements for electric facilities.
4 Those are typically a 6- or 7-foot-tall fence, chain
5 link, with usually razor or concertina wire on top. So
6 that's pretty typical for an electric substation.

7 This substation would be within the solar
8 plant. Our typical security measures include a
9 perimeter fence around the entire solar project area,
10 we usually use key card gated access, and we typically
11 have security cameras on our facilities monitoring
12 24/7, 365.

13 CHMN. CHENAL: And the perimeter fence around
14 the solar facility is how high?

15 MS. INNIS: Typically, about 6 or 7 feet.

16 MEMBER HAENICHEN: Mr. Chairman.

17 CHMN. CHENAL: Yes, Member Haenichen.

18 MEMBER HAENICHEN: Question for you.

19 Something seems to be missing in this diagram. The
20 energy coming out of the solar array is DC. 35 kV, is
21 that what you said?

22 MS. INNIS: 34.5 kV.

23 MEMBER HAENICHEN: And those two boxes on the
24 bottom are transformers. So how do you make the AC
25 from the DC and where is that done?

1 MS. INNIS: Thank you for the question. We
2 don't show the solar facility drawings in this
3 application, but the --

4 MEMBER HAENICHEN: Yeah, but we need to know
5 that, because I have further questions about power
6 quality.

7 MS. INNIS: Sure. I'm happy to walk through
8 that. The electricity generated by the individual
9 solar panels is taken to inverters, where we change
10 from DC to AC. That's where that happens. We have a
11 number of inverter boxes throughout the solar project
12 area. Those connect, then, through to the project
13 substation, where the 34.5 AC is stepped up to 500 kV
14 AC.

15 MEMBER HAENICHEN: So the inverters are in
16 the field of collectors?

17 MS. INNIS: Yes. They would be outside of
18 the project substation.

19 MEMBER HAENICHEN: And how many inverters are
20 there? Is it a 450-megawatt array, is that what I
21 recall?

22 MS. INNIS: 400.

23 MEMBER HAENICHEN: 400. How many inverters
24 are there?

25 MS. INNIS: That's a good question. I do not

1 know the answer to that off the top of my head. I'll
2 have to double-check on that.

3 MEMBER HAENICHEN: Yeah. Okay, we need to
4 have that answer.

5 MS. INNIS: Okay.

6 MEMBER HAENICHEN: I have a further question
7 for right now. Is there any DC storage on the project
8 site?

9 MS. INNIS: We haven't designed the storage
10 component yet; that would come in final engineering for
11 the project. We can do both AC coupled or DC coupled
12 battery energy storage.

13 MEMBER HAENICHEN: Well, is the answer to
14 that question germane to this hearing or not? I know
15 we have no jurisdiction over the array, but we really
16 have to kind of know about that.

17 MR. ACKEN: Mr. Chairman, Member Haenichen,
18 if I may, we are happy to provide information
19 addressing the Committee's questions. I would take the
20 position that the solar array and everything outside of
21 the project substation is not subject to Line Siting
22 jurisdiction.

23 MEMBER HAENICHEN: I understand that.

24 MR. ACKEN: But certainly to the extent that
25 it's information that helps you in evaluating it, we're

1 going to provide that to you. But we're asking for
2 approval for the substation, this new substation, and
3 the Gen-Tie to Cholla.

4 MEMBER HAENICHEN: Okay. I would like to
5 also have some information provided to the Committee
6 about the power quality of the AC signal that comes out
7 of the -- out of the array.

8 MS. INNIS: Do you have more specific
9 questions about what you want to know about the power
10 quality from the --

11 MEMBER HAENICHEN: Let me give you a
12 philosophical answer to that question. As time
13 progresses in this century we're in, we're going to see
14 more and more DC generation in projects like this.
15 When they're a very small portion of the total
16 generation mix, the quality of the AC sine wave is not
17 as important. But if it becomes a dominant part, like,
18 say, more than 50 percent, then we have to worry about
19 what impact this kind of generation is going to have on
20 the whole grid.

21 So those are my questions. That's what I'm
22 aiming at. And I understand we have no jurisdiction
23 over it, but in good faith you should supply that --
24 some answers to those kind of questions, in my opinion.

25 CHMN. CHENAL: Member Noland.

1 MEMBER NOLAND: Thank you, Mr. Chairman. One
2 other thing. Is there an exhibit here that pinpoints
3 where the substation is going to be on a map with
4 relation to the solar arrays and the Cholla -- existing
5 Cholla plant?

6 MR. ACKEN: Chairman Chenal, Member Noland,
7 the short answer is no. We have a written description
8 of it in both the application and in the form of an
9 order, but we specifically did not say it was going to
10 be within this 5-acre piece within the footprint of the
11 solar field. And that was done to say -- to allow for
12 site-specific movement within the solar field to place
13 the substation. Ms. Innis can explain why it's in the
14 applicant's interest to place it as close to the
15 property boundary of the solar field as possible, and
16 that might be a good question for her to answer, but we
17 did not include -- we did not restrict ourselves in
18 what we have proposed, with the understanding that the
19 applicant has site control of the entire solar
20 generating facility, we have a written description, a
21 written narrative of where it will be, and our intent
22 is to place it within those general areas.

23 MEMBER NOLAND: Well, I'd like to see, as we
24 get towards the end of this, at least designating
25 within that solar array boundary that the substation

1 will be placed there, not just a legal description. I
2 think that's going to be important for people to
3 understand and figure out where it's going to be
4 placed, and not -- I'm not saying it has to be
5 absolutely specific, but that it will be placed within
6 that area that you've designated as the solar area.
7 Does that make sense?

8 CHMN. CHENAL: I think it does, Member
9 Noland. Kind of a corridor for where the substation
10 will be, just like we have a corridor --

11 MEMBER NOLAND: Yes.

12 CHMN. CHENAL: -- for those transmission
13 lines?

14 MEMBER NOLAND: It can't be this vague, we're
15 going to put it somewhere. We need to know it's going
16 to be here or it's going to be on the other side of the
17 freeway by the Cholla plant. That's what people would
18 like to know. That's what I'd like to know.

19 MR. ACKEN: Mr. Chairman, Member Noland, we
20 understand the question, and we'll take that under
21 advisement about sharpening our pencils and seeing what
22 kind of additional specificity we can provide.

23 MEMBER NOLAND: Thank you.

24 CHMN. CHENAL: Thank you.

25 MR. ACKEN: Are you ready for the virtual

1 tour?

2 CHMN. CHENAL: I'm going to ask the Committee
3 if they'd prefer to take a break now or see the virtual
4 tour. It is a break in the testimony.

5 MEMBER NOLAND: Let's see the tour.

6 Okay. I have a vote to see the virtual tour.
7 Keep going? Okay.

8 MEMBER RIGGINS: Keep going.

9 CHMN. CHENAL: Mr. Acken, I think we want to
10 see the tour.

11 MR. ACKEN: Great.

12 BY MR. ACKEN:

13 Q. Ms. Innis, with that intro, would you present
14 the virtual tour that you developed for the Committee?

15 A. Sure. We're excited about showing you this
16 flyover video tour of the project area, since we were
17 not able to take a field trip out there so you could
18 see firsthand.

19 So the idea of the video is to -- could you
20 pause there, please? The idea of the video is to give
21 you a general overview of the setting in the area of
22 the solar facility and the preferred and alternative
23 routes up to the Cholla substation. This, again, is
24 the overview of the project area. This video is going
25 to focus on the preferred route.

1 So the project substation would be in this
2 area inside the solar boundary. Thousand-foot-wide
3 requested corridor here shown in blue. What we're
4 going to show you in this video, we're going to start
5 on one end of the line with a quick high-level flyover,
6 and then we're going to go detailed from the project
7 area back to the substation. So you'll get kind of a
8 high-level view and then a more detailed view of the
9 corridor. When we start the video, you'll also see
10 numbers in the corridor; those are mile markers to give
11 you a sense of the distance.

12 As we go through the video, we'll also pause.
13 If you want us to pause at any point to ask questions,
14 just let us know. But we have several static
15 photographs that were taken in the project area, so
16 we'll stop for a couple of those so you can get a
17 better sense of what the area looks like from the
18 transmission line corridor.

19 CHMN. CHENAL: And then approximately how
20 long is the video?

21 MS. INNIS: I think each video is just about
22 5 minutes. So this should be about a total of 10
23 minutes, depending how long we stop for any questions.

24 CHMN. CHENAL: Thank you.

25 MS. INNIS: Let's go ahead with the video

1 here. And again, we've got the solar project area
2 here, a transmission line up to the Cholla substation.
3 This is the CEC-1 portion in blue. CEC-2 portion,
4 we'll zoom in a little bit, you'll see that in pink.
5 Then we'll start our high-level flyover from the Cholla
6 substation out back towards the solar project area.

7 Here you can see the existing Cholla power
8 plant and substation yard, CEC-2 in pink, and the start
9 of the CEC-1 corridor here in this light blue color.

10 Now, we'll turn back around from the solar
11 project area back towards the substation so you can get
12 a sense for the area. Again, this is a static photo
13 taken from the solar project area up towards Joseph
14 City. This area is currently used for grazing cattle
15 primarily. And again, the mile markers shown here.
16 You can see the Cholla power plant off in the distance
17 here.

18 Here is a typical photo of the existing ranch
19 roads on the property, kind of informal two-track dirt
20 roads through the property, used to help with the
21 ranching operations that are currently out there.

22 This is a view looking to the west there.
23 Another typical view here. This is approximately 1
24 mile west of Obed Road, which is one of the few paved
25 roads in the project area, kind of looking back to the

1 west from where we've just come in the video.

2 There are some existing distribution lines
3 that serve at least one residence in the project area
4 here.

5 Here is that Obed Road. The transmission
6 line will cross this road between the solar project
7 area and the transmission line. I believe this is the
8 only road we'll cross with the transmission line.

9 Here you can see the Little Colorado River
10 bed, usually typically dry, and then the Cholla power
11 plant there in the background. We would plan our
12 structures to span across this wetland area.

13 And again, as we cross the river area and get
14 up towards the point of ownership change, you'll see we
15 have railroad tracks here. This is Burlington Northern
16 Santa Fe. This is a close-up picture of the railroad
17 tracks we'll cross.

18 CHMN. CHENAL: Ms. Innis, what are we looking
19 at to the right in terms of the -- oh, if we can go
20 back to the picture -- the power lines we saw.

21 MS. INNIS: Those are -- I couldn't see
22 exactly there. Those are either distribution lines
23 along Obed or the 230 coming into Cholla substation.
24 There we go.

25 CHMN. CHENAL: The ones that are there.

1 MR. SIMPSON: Those are distribution lines
2 that also feed operations along the railroad tracks, so
3 switching stations and things of that nature.

4 CHMN. CHENAL: Thank you.

5 MEMBER NOLAND: Mr. Chairman.

6 CHMN. CHENAL: Member Noland.

7 MEMBER NOLAND: Is the ownership change
8 between the Aztec Cattle Company and the railroad?

9 MS. INNIS: The ownership change? No. That
10 would be between the applicant, Hashknife Energy
11 Center, and APS. It would be the change in ownership
12 of the transmission line.

13 MEMBER NOLAND: I understand what you're
14 saying.

15 Also, you said there's one residence. Is
16 that a part of the private landowner's property?

17 MS. INNIS: No. There's a grazing lessee
18 whose house is outside of the project area.

19 MEMBER NOLAND: Outside of the project area
20 or the transmission line area?

21 MS. INNIS: Both.

22 MEMBER NOLAND: Both?

23 MS. INNIS: Outside of both.

24 MEMBER NOLAND: Okay.

25 MS. INNIS: Thank you for the questions.

1 And then here you can see, this is the point
2 of ownership change. This last structure is where we
3 would change ownership. Hashknife Energy Center would
4 own this structure, and then APS would take the line
5 into its substation from here.

6 And this is a photo about as close as we
7 could get to that area. This is kind of just on the
8 west side of the power plant there. And then you can
9 see CEC-2, that corridor is shown in pink here, again,
10 a little bit more narrow corridor, 500-foot corridor
11 here. And then these facilities would really just be a
12 couple of structures --

13 CHMN. CHENAL: Could we stop?

14 MS. INNIS: Sure.

15 CHMN. CHENAL: I just have a question before
16 we go too far. I'm sorry. But I thought I heard
17 earlier or read earlier that there was a fence line.
18 Okay. The fence line is not the change of ownership;
19 the fence line is further in the CEC-2 corridor?

20 MS. INNIS: Correct. On the image here
21 you're seeing this white line. That's sort of the
22 existing substation fence here. So the point of
23 ownership change will happen here, and then APS will
24 own the wires to the next transmission structure or
25 structures until the point of interconnection inside

1 the 500 kV bay here.

2 CHMN. CHENAL: Thank you.

3 MS. INNIS: And here we've labeled the 500 kV
4 bay. This is where the new interconnection equipment
5 would go to bring that 500 kV line into the substation
6 here.

7 Do you have any other questions on this
8 video?

9 CHMN. CHENAL: Members appearing remotely,
10 any questions?

11 Member Haenichen.

12 MEMBER HAENICHEN: I don't have a question
13 about the flyover, but hopefully in the next day or
14 two, when you've been able to research this -- your
15 company has built previous large solar arrays, have
16 they not?

17 MS. INNIS: Yes, we have.

18 MEMBER HAENICHEN: What's the largest one?

19 MS. INNIS: I would have to double-check.
20 Probably just under 200 megawatts.

21 MEMBER HAENICHEN: Okay. So you must have a
22 lot of experience, then, on what the output looks like
23 from the standpoint of harmonics and that kind of
24 thing, in other words, power quality. So I would like
25 you to give a little presentation on that, because I'm

1 going to assume this will be -- have a similar
2 character, this power plant you're building. I would
3 think APS would be really concerned about this as well.

4 MS. INNIS: I can tell you the large
5 generator interconnection agreement we have, APS did
6 conduct a number of facility studies, system impact
7 studies, and so forth before agreeing to that
8 arrangement with us. We can definitely talk through
9 some of those issues if you want a walk-through of
10 those studies.

11 MEMBER HAENICHEN: I want to know how much of
12 the energy that's being generated by the photovoltaics
13 winds up as 60-cycle AC; and then on the various
14 harmonics, what are the percentages. That's really
15 what I'm looking for.

16 MR. ACKEN: Mr. Chairman, Member Haenichen, I
17 think we understand the line of questioning, and we'll
18 do some homework and be prepared to address.

19 MEMBER HAENICHEN: Okay, thank you.

20 CHMN. CHENAL: Good, thank you.

21 MR. ACKEN: Mr. Chairman, I forgot to mention
22 this earlier. Member Gentles came online too. I don't
23 know if you were able to get him.

24 CHMN. CHENAL: No, I did not. Okay, very
25 good.

1 MR. ACKEN: So I do see that he's on there as
2 well, and I think he's been on there for some time.

3 CHMN. CHENAL: Thank you.

4 Now, there was not another video, was there?

5 MS. INNIS: There is another video, yep.

6 CHMN. CHENAL: Oh, there is?

7 MS. INNIS: Same kind of thing for the
8 alternative route, so we can just run through that real
9 quick.

10 CHMN. CHENAL: Yes, Member Noland.

11 MEMBER NOLAND: Mr. Chairman, for the sake of
12 those that are online, they can't see the green
13 pointer, I don't believe. Is that correct?

14 MEMBER PALMER: That is correct.

15 MEMBER NOLAND: So I think you have to be a
16 little more specific in describing, to the west or the
17 east or the right or the left, for those people that
18 can't see the pointer.

19 MS. INNIS: Thank you very much. I'll make
20 sure to do that.

21 CHMN. CHENAL: Thank you, Member Noland.

22 MS. INNIS: Go ahead with the second video?

23 CHMN. CHENAL: Please. And I know I asked
24 the applicant, because we had a number of meetings
25 about this, that I wanted something more than the

1 typical Google flyover. I was very impressed with
2 that, and I thank the applicant and the folks
3 associated with putting that together. I think that
4 was very, very well done.

5 MS. INNIS: Thank you. Appreciate that.

6 And we'll go ahead now with the alternate
7 route flyover video. Same project area here, and
8 you'll see the alternate route now shown in yellow from
9 the east side of the solar project area paralleling the
10 existing transmission corridor up to the Cholla
11 substation. And again, we'll do this sort of high
12 level from the Cholla substation over towards the solar
13 project area. You can see the existing transmission
14 lines in green adjacent to our yellow alternate route.

15 MEMBER NOLAND: Mr. Chairman.

16 CHMN. CHENAL: Member Noland.

17 MEMBER NOLAND: What is that red line? Go
18 back. Go back just a little. What's the red line that
19 is running parallel to the greens? Can you see that?

20 MS. INNIS: Yep. That's another existing
21 transmission line.

22 MEMBER NOLAND: Okay, thank you.

23 MS. INNIS: Thank you for asking.

24 And now we're going to do the more detailed
25 flyover and stop for a couple still photographs.

1 Again, from inside the solar project area, you can see
2 the existing transmission lines on the horizon.

3 Here is a great example of those steel
4 lattice structures. This is a 345 kV transmission line
5 here.

6 Again, typical example photograph of the
7 area. This whole project area is used for grazing
8 currently. This is just a little bit of -- west of
9 Obed Road.

10 Here is a photo of Obed Road showing the
11 crossing of that existing transmission line in the
12 distance here.

13 And now we're getting a little closer. You
14 can see the Cholla power plant in the background, the
15 existing 345 kV lines here in this photograph.

16 I mentioned earlier the alternate route had
17 more turning structures, and you can see there's an
18 example where we'd have to make a bit of a sharp turn
19 as we approach the Little Colorado River area.

20 And again, here is the Burlington Northern
21 tracks.

22 BY MR. ACKEN:

23 Q. Ms. Innis, why does the alternate route have
24 so many more turning structures?

25 A. Just to avoid the existing transmission line

1 and corridor in the area.

2 CHMN. CHENAL: Can we go back to the last
3 part of that second video?

4 MS. INNIS: Sure. Let me know when you want
5 us to stop, how about.

6 CHMN. CHENAL: That's probably good enough.

7 MS. INNIS: Stop here?

8 CHMN. CHENAL: Yeah, that's fine.

9 Question: On the alternate route, parallel
10 was the 345 kV line?

11 MS. INNIS: Correct.

12 CHMN. CHENAL: Okay. Then what is -- is that
13 the transmission line that -- what's the generation
14 source for that line?

15 MS. INNIS: I believe that leaves the Cholla
16 power plant and heads towards the Phoenix load pocket.

17 CHMN. CHENAL: Now, we also saw in red a
18 500 kV line that came in from the southeast or
19 something. Where is -- what is that power source?

20 MS. INNIS: I believe that is also sort of an
21 exit line from the Cholla power plant.

22 CHMN. CHENAL: Okay. So with your project,
23 it's going to be 500 kV DC, and we're going to hear
24 more about that, and then it's going to be transferred
25 to -- or, converted to AC. What's the power -- is it

1 going to be a 500 kV line coming out and coming down to
2 Phoenix, or is it the 345 line you're using? Does that
3 make any sense?

4 MS. INNIS: Yeah. I'm not sure I can answer
5 that. Our generation tie line, the 500 kV AC line from
6 our solar project, is just going to the Cholla
7 substation. From there, all the power sources get sort
8 of mixed together and dispatched out through APS's
9 system. I don't know if I can provide a whole lot more
10 insight than that.

11 CHMN. CHENAL: We'd like to hear from APS on
12 where this power goes once it goes into the Cholla
13 substation. Is it going to be 345? Is it going to be
14 500? Which transmission line -- where is it going?
15 Just as background, just to complete the record, so we
16 have a good record of the case.

17 MS. BENALLY: Chairman Chenal, that's noted.

18 CHMN. CHENAL: Okay. Those are good videos.
19 I really appreciate the applicant taking the time to
20 put those together.

21 MS. INNIS: Thank you very much.

22 I'll also just make a note, CEC-1 has the
23 preferred and alternative routes. CEC-2 would take the
24 same path from that point of ownership change outside
25 the substation fence into the substation. So it's the

1 same route.

2 CHMN. CHENAL: Right.

3 MEMBER NOLAND: Mr. Chairman.

4 CHMN. CHENAL: Member Noland.

5 MEMBER NOLAND: I'd say the only suggestion

6 I'd make is when you're talking substations, you

7 indicate proposed substation and existing substation

8 just for clarification, if you don't mind.

9 CHMN. CHENAL: Sure.

10 MR. ACKEN: Chairman Chenal, Member Noland,

11 make sure I understand. So there is the existing

12 substation at Cholla; we are not requesting approval

13 for that. We are requesting approval for the proposed

14 substation that will be within the boundaries of the

15 solar facility. Are you asking that that be clarified

16 in the maps or the text or just in the discussion?

17 MEMBER NOLAND: Mr. Chairman.

18 CHMN. CHENAL: Sure, Member Noland.

19 MEMBER NOLAND: Understand that, again, not

20 all of us are here.

21 MR. ACKEN: Sure.

22 MEMBER NOLAND: Though the maps are fairly

23 clear, it's just that I think it gets a little

24 confusing when you just use "substation," like you just

25 did. You were talking about the current Cholla

1 substation, not the proposed substation. That's what
2 I'm trying to make clear.

3 MR. ACKEN: Thank you.

4 MEMBER NOLAND: If you're talking about the
5 current Cholla substation, say Cholla substation;
6 otherwise, it's the proposed Hashknife substation.

7 MR. ACKEN: Understood. Thank you.

8 CHMN. CHENAL: And my question related to the
9 existing Cholla substation and how the power coming
10 into the existing Cholla substation from this project
11 is going to be, you know, transmitted from there.

12 MS. BENALLY: That's noted, Chairman Chenal.

13 CHMN. CHENAL: So maybe now is the time for
14 the afternoon break. Before we go, I just want to ask
15 the members of the Committee who are remote, Member
16 Hamway, Member Gentles, and Mr. Branum, how is it going
17 from your end so far? Are you able to hear the
18 testimony and see the slides?

19 MEMBER HAMWAY: Mr. Chairman, Ms. Hamway
20 here. Yes, this worked out great. I had my slides
21 they sent this morning on one side of the screen, I had
22 the meeting on the other, and I'm able to see and hear
23 everything.

24 CHMN. CHENAL: Great.

25 Member Gentles.

1 (No response.)

2 CHMN. CHENAL: If you're muted, you have to
3 unmute yourself, because we're not hearing you.

4 (No response.)

5 CHMN. CHENAL: Well, maybe during the break
6 we can confirm that Member Gentles is on the Zoom.

7 And then Member Branum, how is it going from
8 your end?

9 MEMBER BRANUM: Thank you, Chairman. It's
10 going quite fine. I'm using multiple screens and going
11 back and forth, so no issues for me. Thank you.

12 CHMN. CHENAL: All right. Super. Well,
13 let's -- how about a 20-minute break, afternoon break,
14 and then we'll pick it up after that. Thank you,
15 everyone.

16 (Off the record from 2:59 p.m. to 3:41 p.m.)

17 CHMN. CHENAL: Let's resume the hearing and
18 go back on the record. We had a nice video
19 presentation flyover. So Mr. Acken, if you want to
20 proceed with your witness.

21 MR. ACKEN: Thank you, Mr. Chairman.

22 BY MR. ACKEN:

23 Q. We're going to turn to the next portion of
24 Ms. Innis' testimony, public outreach. And so on the
25 screen for everyone should be Slide 16.

1 Ms. Innis, please describe the public
2 outreach efforts undertaken for the project.

3 A. Invenergy held a public open house meeting
4 as part of the Navajo County special use permit process
5 for the solar facility. That public open house meeting
6 was held in Joseph City on May 15th, 2019. Invitations
7 were sent by first class mail to all of the property
8 owners within a mile and a half of the proposed
9 facility, and notice was given in the local newspaper.
10 We had approximately 15 people attend, plus seven
11 members of Invenergy's project team.

12 In addition to that public open house meeting
13 where we discussed the solar project and the
14 transmission line, we've been in regular communications
15 with the primary landowner in the area, Aztec Land &
16 Cattle, with whom we have a lease for the solar
17 facility and easements for the transmission line
18 routes. We've also been in touch with the grazing
19 lessee, J.R. DeSpain.

20 In addition to that public open house meeting
21 in May 2019, Navajo County held public hearings on the
22 special use permit. The planning and zoning hearing
23 was held October 17th, 2019. The SUP was approved at
24 the Navajo board of supervisors hearing on
25 November 12th, 2019.

1 And then earlier this year, we submitted an
2 application to Navajo County to amend the special use
3 permit to add additional acreage to the solar facility
4 permit. That approval process went back before the
5 Navajo planning and zoning commission again on
6 May 21st, 2020, and then the permit amendment received
7 final approval from the board of supervisors in
8 June 2020.

9 And our application Appendix J-1 includes
10 copies of all of those open house materials, and you
11 can see those on this slide here. We provided basic
12 information about the solar project, the construction
13 process, project benefits, timeline, so forth.

14 Q. Describe the public notice specifically
15 provided for the CEC application.

16 A. So building on those efforts in 2019 and
17 early 2020, we took additional steps for public
18 involvement and public notice related to this Power
19 Line Siting Committee process. We posted signs on the
20 property advertising today's public hearing, providing
21 contact information for questions about the
22 application. We also advertised in three newspapers.
23 And you'll see on this slide copies of those newspaper
24 ads and proof of publication.

25 Also, because of the COVID situation, we

1 would have normally placed copies of the application in
2 public libraries or made them available for the public
3 to access. In lieu of that, we posted the full
4 application document on our website,
5 hashknifesolar.com, so that the public could access it
6 there. We also offered to mail out copies if people
7 called to request one. We did not receive any requests
8 for anybody to receive a printed copy of the
9 application, but we did offer that to folks who were
10 unable to access the application on the website.

11 To meet the requirements for the CEC process,
12 we also provided public notice via certified mail to
13 the two jurisdictions in the project area, Navajo
14 County and the Arizona State Land Department. And as
15 we mentioned earlier, Arizona State Land Department
16 doesn't own land along the transmission line routes;
17 but because they are a landowner within the solar
18 project area, we've been keeping them apprized of the
19 project and this transmission line process.

20 Q. What does Slide 18 depict?

21 A. Slide 18 here shows photographs of the public
22 notice postings on the property. In the image on the
23 left, you can see the project area map showing the
24 locations for where those two signs were posted in the
25 project area.

1 Q. And you mentioned the public notice, the
2 publication, the certified mail notice. Can that
3 information be found in what's been marked for
4 identification as INV-3?

5 A. Yes, that's right. INV-3 is the exhibit that
6 contains all of the documentation for this public
7 outreach specific to this Power Line Siting Committee
8 hearing.

9 Q. Next, we're going to turn to the needs and
10 benefits provided by the project. Describe those for
11 the Committee.

12 MEMBER DRAGO: Mr. Chairman.

13 CHMN. CHENAL: Member Drago.

14 MEMBER DRAGO: Sorry. I had a question back
15 on the public engagement. Relative to tribes, I
16 realize that Navajo is quite some distance away,
17 130-some miles, but did the project offer consultation
18 to any tribes in the area or tribal listening sessions?

19 MS. INNIS: Thank you very much for the
20 question.

21 MEMBER DRAGO: And then follow-up to that,
22 sorry, would be: If not, did any of them show up at
23 the public meeting?

24 MS. INNIS: Thank you for the question. We
25 did not have any tribes participate in the public open

1 house meeting or in the SUP hearings through the Navajo
2 County process. We do have testimony coming later on
3 cultural issues from Derek Holscher, and he can speak
4 more specifically about the outreach to the tribes and
5 who responded to letters about the project.

6 MEMBER DRAGO: Thank you.

7 MR. ACKEN: Thank you.

8 BY MR. ACKEN:

9 Q. What are the needs met and benefits provided
10 by the project?

11 A. Sure. This transmission line project is
12 needed to connect the associated Hashknife Energy
13 facility to the existing transmission grid at the
14 Cholla substation. The solar project will provide
15 Arizona with a renewable energy resource to help meet
16 its clean energy goals, and this transmission line
17 project is compatible with existing rangeland and
18 industrial uses of the surrounding area.

19 On this slide, we have estimated some of the
20 project benefits. Over the approximate six-month
21 construction time frame, we would expect to employ
22 between 200 and 400 construction workers. Once the
23 facility is built and operational, we'd expect to have
24 between three and five full-time jobs. Over the life
25 of the project, we expect property tax, sales tax,

1 landowner payments would total between 30 and
2 \$35 million. And during the construction period and
3 operations, we'd expect to see increased local economic
4 activity, for example, construction workers staying in
5 local hotels, eating at local restaurants, purchasing
6 materials from local shops and suppliers.

7 And all of these benefits come with minimal
8 impact on local infrastructure and services. This
9 facility doesn't produce any noise, doesn't produce
10 traffic on an ongoing basis, and really has minimal
11 impacts in exchange for these benefits.

12 CHMN. CHENAL: Ms. Innis, quick question.
13 Any idea of the property tax revenue on an annual basis
14 for Navajo County after the project is completed?

15 MS. INNIS: I don't have that figure handy,
16 no.

17 CHMN. CHENAL: Any idea? I mean, any range
18 or guesstimate?

19 MS. INNIS: We estimated property tax, sales
20 tax, plus landowner payments over 25 years would be
21 between 30 and 35 million. So based on that, the
22 property tax revenues may be a million dollars a year,
23 in that ballpark.

24 CHMN. CHENAL: All right, thank you.

25 MEMBER GENTLES: Mr. Chairman.

1 CHMN. CHENAL: Yes. Who is speaking?

2 MEMBER GENTLES: This is Member Gentles.

3 CHMN. CHENAL: Yes.

4 MEMBER GENTLES: Just a quick question. I
5 don't know if I missed it, but could you have them
6 address any information that they received through
7 their website in terms of response or feedback on the
8 project or through any of their social media channels?

9 CHMN. CHENAL: Ms. Innis.

10 MS. INNIS: Sure. The only communications
11 we've had about the project have been at that open
12 house meeting in May 2019. We had approximately 15
13 members of the public attend that open house. Since
14 then, we've been in regular discussions with the
15 landowner and also the grazing lessee. But since we
16 posted the CEC application materials on the
17 hashknifesolar.com website, I have not received any
18 calls or e-mails or inquiries from the local community
19 short of construction contractors who would like work
20 on the project.

21 MEMBER GENTLES: And just a follow-up
22 question. How many -- how many residents, commercial
23 or residential, are impacted in the -- in the project
24 area?

25 MS. INNIS: Thank you for the question. We

1 do have testimony coming a little bit later from Derek
2 Holscher about the exact land uses in the area, so I
3 think he could answer specifically that question.

4 MEMBER GENTLES: Okay. Well, I'm just trying
5 to get to a -- you know, we always have this
6 conversation during this portion, which is the extent
7 to which the public was actually informed outside of
8 the technical requirements in the CEC, right. So by
9 your account right now, only 15 people really had any
10 conversation about the project based on the open house
11 sign-in sheet, it looks like. Is that basically --

12 MS. INNIS: Sure. I appreciate the question.
13 We did provide public notice and outreach, including
14 mailers and newspaper ads, for that open house meeting;
15 that went to all landowners within a
16 one-and-a-half-mile radius. That same group of people
17 was notified four times for the public hearings through
18 the Navajo County process.

19 MEMBER GENTLES: I understand. And I
20 certainly appreciate knowing what that universe is, so
21 we can get to that later on. Thank you.

22 MS. INNIS: Thank you.

23 BY MR. ACKEN:

24 Q. Following up on that line of questioning,
25 what is the local community's perspective on the

1 project from the feedback you received?

2 A. From the feedback we received primarily
3 through that open house and the SUP process, it's been
4 positive. I think the community recognizes that the
5 change in generation at the Cholla facility will have
6 some impacts to the local community. While this
7 facility has a modest number of jobs, it is additional
8 economic activity for the local community that they'll
9 appreciate.

10 MEMBER GENTLES: Mr. Chairman.

11 CHMN. CHENAL: Yes, Member Gentles.

12 MEMBER GENTLES: Could you remind us, is the
13 Cholla plant going to be operational for the future,
14 and how long?

15 CHMN. CHENAL: If you know, Ms. Innis. I
16 think you spoke to this a little earlier.

17 MEMBER GENTLES: She may have, and my
18 apologies if I missed it.

19 CHMN. CHENAL: That's okay. That's no
20 problem.

21 MR. ACKEN: And we may need to follow up,
22 Member Gentles, to get you more specific information.
23 But if Ms. Innis can answer it now, great.

24 MS. INNIS: Yeah. I believe at least one of
25 the units is in the process of being decommissioned, if

1 it hasn't already come offline; and then the remainder
2 of the facility, I think it's roughly 2025. We'll
3 double-check on those dates and follow up on that.

4 MEMBER GENTLES: So the other unit is going
5 to decommission on or around 2025?

6 MS. INNIS: Off the top of my head, I believe
7 so.

8 MEMBER GENTLES: So what happens to the --
9 and again, my apologies if you already discussed this.
10 What happens to the power generation thereafter that's
11 connected into the solar plant?

12 MS. INNIS: I'm not sure I understand what
13 you're asking. When the coal plant retires, there
14 won't be any additional coal generation from that
15 facility. So our project would tie in to that existing
16 transmission infrastructure that will remain after the
17 power generators are taken offline.

18 MEMBER GENTLES: Okay, that's good. Thank
19 you.

20 MS. INNIS: Okay.

21 BY MR. ACKEN:

22 Q. And to follow up on that, this project will
23 allow the continued use of that existing infrastructure
24 after Cholla is no longer producing power generation,
25 is that correct?

1 A. Correct.

2 MEMBER RIGGINS: Mr. Chairman.

3 CHMN. CHENAL: Yes.

4 MEMBER RIGGINS: Ms. Innis, the public
5 comment and feedback that you received, was that more
6 focused on the entire solar project -- proposed solar
7 project facility and the transmission line area, or was
8 it more one or the other or was it -- was there any
9 concern about the proposed routes for the transmission
10 lines into Cholla from the area, or was it more the
11 project in itself, the entire solar facility?

12 MS. INNIS: Thanks for the question. At the
13 open house, we did talk about both solar and
14 transmission. We did not receive any negative feedback
15 at the open house about transmission specifically.

16 MEMBER RIGGINS: Thank you.

17 BY MR. ACKEN:

18 Q. Ms. Innis, what other witnesses are
19 testifying on behalf of the application?

20 A. We have several members of our project team
21 here in the room -- or, in the building today. They
22 assisted with preparation of this application and
23 various environmental and cultural studies. We'll have
24 Derek Holscher from Burns & McDonnell addressing land
25 use and cultural issues. Randy Simpson from Burns &

1 McDonnell will address visual impacts and the photo
2 simulations in the application. And from SWCA we'll
3 have Tom Koronkiewicz address biological resources.

4 In addition to the formal written testimony
5 from these gentlemen and their testimony today, we also
6 have available an electrical engineer and environmental
7 specialist who are listening in via Zoom and will be
8 able to answer any questions.

9 Q. Was the CEC application prepared under your
10 direction and supervision?

11 A. Yes, it was.

12 Q. And do you have any corrections or changes at
13 this time?

14 A. No, I do not.

15 Q. And so is it true and accurate, to the best
16 of your knowledge?

17 A. Yes.

18 Q. Any final comments for the Committee?

19 A. Just to quickly summarize my testimony for
20 you today, the Hashknife Gen-Tie project, it's an
21 approximately 3-mile-long 500 kV transmission line to
22 connect the 400-megawatt proposed solar and battery
23 energy storage facility to the existing transmission
24 infrastructure at Cholla substation owned by APS.

25 This project area was selected because of

1 environmental compatibility for both solar and
2 transmission development, access to available
3 transmission capacity, cooperative landowners, and a
4 supportive community.

5 The project will help Arizona meet its goals
6 for clean, reliable electricity, while providing
7 revenue to the local area in the form of jobs, taxes,
8 and landowner payments.

9 I very much appreciate the Committee's
10 consideration of this application. Thank you for being
11 here during these challenging virus times in person and
12 online. We look forward to answering any questions you
13 may have about the project. Thank you.

14 CHMN. CHENAL: Thank you, Ms. Innis.

15 Does the Committee have any further questions
16 of Ms. Innis at this time?

17 Member Noland.

18 MEMBER NOLAND: Just a real quick question.
19 The slide that you have up right now shows wind
20 generation in the background. I'm assuming that's just
21 another project? You're not planning wind generation,
22 as well as solar?

23 MS. INNIS: Thank you for the question. We
24 find eastern Arizona is well suited for solar, but not
25 wind at this particular location. The resource isn't

1 strong enough for a wind facility.

2 MEMBER NOLAND: Thank you.

3 CHMN. CHENAL: Thank you very much.

4 Okay. Thank you, Ms. Innis.

5 I do note that there were some questions that
6 were asked, you know, so you'll have to come back and,
7 either through you or another witness or other
8 witnesses, you know, provide the additional information
9 that was requested.

10 MR. ACKEN: Mr. Chairman, our thought would
11 be to get through our direct, I understand you had a
12 couple questions for APS as well, and then we can bring
13 back Ms. Innis to clean up any remaining questions at
14 the conclusion.

15 CHMN. CHENAL: Sure, that sounds fine.
16 However you'd like to handle it.

17 MR. ACKEN: All right. Are you ready for our
18 next --

19 CHMN. CHENAL: Yes, I think we're ready for
20 your next witness.

21 MR. ACKEN: The applicant calls Tom
22 Koronkiewicz. And he will be -- he's remote.

23 MR. KORONKIEWICZ: Can everybody hear me
24 okay?

25 CHMN. CHENAL: Is there a way, until we get

1 into the exhibit, that we could have this witness
2 appear on the screen? It's done.

3 You're going to have to tell me how to
4 pronounce your name, sir, before I swear you in. I
5 don't want to butcher it.

6 MR. KORONKIEWICZ: That's okay, Mr. Chairman.
7 Thomas J. Koronkiewicz.

8 CHMN. CHENAL: Koronkiewicz.

9 MR. KORONKIEWICZ: Perfect.

10 CHMN. CHENAL: Do you prefer an oath or an
11 affirmation, sir?

12 MR. KORONKIEWICZ: Oath, please.

13 CHMN. CHENAL: Okay. Would you raise your
14 right hand.

15 (Thomas J. Koronkiewicz was duly sworn by the
16 Chairman.)

17 CHMN. CHENAL: Mr. Acken.

18 MR. ACKEN: Thank you.

19

20 THOMAS J. KORONKIEWICZ (VIDEOCONFERENCE),
21 called as a witness on behalf of the Applicant, having
22 been previously sworn by the Chairman to speak the
23 truth and nothing but the truth, was examined and
24 testified as follows:

25 ///

1 DIRECT EXAMINATION

2 BY MR. ACKEN:

3 Q. Please state your name and business address
4 for the record.

5 A. Thomas J. Koronkiewicz, 114 North San
6 Francisco Street, Flagstaff, Arizona 86001.

7 And I believe we should advance the slide,
8 please.

9 Q. Thank you. And if there's a way we could
10 show him as well. Thank you.

11 By whom are you employed and in what
12 capacity?

13 A. SWCA Environmental Consultants, and I am an
14 ecologist and environmental specialist.

15 Q. And what was your role in the preparation of
16 this CEC application?

17 A. Senior ecologist and SWCA Environmental
18 Consultants' project manager overseeing both the
19 biological and aquatic resource surveys.

20 Q. Describe your experience with line siting
21 hearings.

22 A. In 2010, I provided Line Siting Committee
23 expert testimony regarding the biological surveys for
24 the Perrin Ranch wind energy facility in Coconino
25 County, Arizona. And I also completed an internal SWCA

1 Environmental Consultants' technical review of the
2 biological survey work for the proposed Chevelon Butte
3 wind energy facility in Coconino and Navajo Counties.

4 Q. Please provide an overview of your
5 professional background and educational experience.

6 A. I have a BS in biology from Southern
7 Connecticut State University and an MS in biology from
8 Northern Arizona University. I'm an ecologist with 23
9 years of experience, and my most recent projects
10 involve environmental compliance management of
11 renewable energy development projects across the
12 western United States. I also serve as a graduate
13 student advisor at Northern Arizona University.

14 Q. And what topics are you going to cover today?

15 A. I'm sorry. I think we should advance the
16 slide, please. Sorry about that.

17 Yeah, my testimony covers biological and
18 aquatic resources as the SWCA Environmental
19 Consultants' project manager for the biological and
20 aquatic resource surveys for the project. I will
21 provide testimony regarding application exhibits and
22 project environmental compatibility associated with
23 biological and aquatic resources.

24 Next slide, please.

25 Q. Well, let's leave that slide up there that's

1 on the screen for us. It's Slide 21.

2 A. Oh, I see. Okay.

3 Q. If you would, describe -- excuse me, Slide
4 22 -- describe the evaluation methods that you used.

5 A. Right. Right. Following the Arizona Game
6 and Fish Department recommending guidelines for solar
7 development in Arizona, and in order to assess
8 environmental risk for the project, SWCA Environmental
9 Consultants and Invenergy consulted with the Arizona
10 Game and Fish Department in 2019 and reviewed multiple
11 environmental and biological online data sources,
12 including the U.S. Fish and Wildlife Service
13 information for planning and consultation tool and the
14 Arizona Game and Fish Department environmental review
15 tool.

16 A desktop review was also completed to
17 identify aquatic resources, including wetlands and
18 other special aquatic sites as defined under the Clean
19 Water Act. Based on the desktop reviews, we then
20 conducted field surveys both in 2019 and in 2020 to
21 identify and document vegetative communities, potential
22 wildlife foraging resources, topography of the area,
23 habitat features to evaluate potential wildlife usage,
24 and aquatic resources within the project area. The
25 surveys also characterized and verified the habitat

1 types within the project area to assess whether there
2 is suitable habitat for federally listed and other
3 special status species and to identify potential waters
4 of the U.S. using U.S. Army Corps of Engineers wetland
5 delineation guidance protocols.

6 The following figures in my presentation, the
7 photographs included, are all included in the CEC
8 application exhibit, Appendices B-1 and B-2. This
9 photograph is the alternate Gen-Tie line route with the
10 Cholla substation in the background.

11 Next slide, please.

12 Q. So what type of biological and aquatic
13 resources do you expect to find on this project?

14 A. Wildlife is typical of northern Arizona
15 desert scrub habitat. Importantly, there is no
16 difference, in terms of habitat or common wildlife use,
17 between the proposed and alternative Gen-Tie routes.
18 Typical wildlife species observed included coyote,
19 deer, desert cottontail and jackrabbits, mice, small
20 reptiles, common bird species.

21 According to the U.S. Fish and Wildlife
22 Service information for planning and consultation
23 database query, a total of eight threatened or
24 endangered species have the potential to occur within
25 the project area. Those species are: California

1 condor, yellow-billed cuckoo, gray wolf, black-footed
2 ferret, Little Colorado spinedace, northern Mexican
3 gartersnake, Chiricahua leopard frog, and Peebles
4 Navajo cactus. However, and importantly, the results
5 of the online research and field surveys indicate that
6 the documented suitable breeding and/or roosting
7 habitat is not present within the project area and/or
8 the project area is outside of the known geographic
9 range for these eight species. In addition, no
10 threatened or endangered species were observed during
11 the field surveys.

12 This photograph is the alternate Gen-Tie line
13 route where it crosses the Little Colorado River.

14 And next slide, please.

15 Q. So what are your conclusions with respect to
16 biological resources?

17 A. For both the proposed and alternative Gen-Tie
18 routes, our results have indicated the project is
19 environmentally compatible, as project construction and
20 operational activities are unlikely to adversely impact
21 threatened or endangered species or their habitats.

22 Additionally, based on wildlife agency
23 consultation from May in 2020, the Arizona Game and
24 Fish Department has no concerns for wildlife, including
25 wildlife corridors, which may occur within the project

1 area. The project will not disturb any areas of
2 biological wealth and will have minimal to no impact to
3 wildlife species. Again, in my opinion, the project
4 will be environmentally compatible with respect to
5 terrestrial species and their habitats.

6 These photographs here depict the dominant
7 habitat within the project areas.

8 Next slide, please.

9 Q. And the next slide, for the record, is
10 Slide 25 of hearing exhibit INV-2. If you would,
11 describe this for the Committee.

12 A. Thank you. Thank you. So for both the
13 proposed and alternative routes, aquatic resources are
14 limited to ephemeral surface water features and the
15 Little Colorado River, which is also an intermittent
16 surface water feature. There are no wetlands or
17 perennial surface water features in the project area.

18 Surface waters -- surface features will be
19 avoided by spanning, and structures will be placed
20 outside of the limits of aquatic resource features. In
21 my opinion, because of this avoidance, again, the
22 project will be environmentally compatible also with
23 respect to the aquatic resources.

24 This figure here depicts the aquatic
25 delineation that we completed near the Cholla

1 substation. And you can see, at least hopefully fairly
2 well, the black outlines are the proposed and alternate
3 routes, the areas we surveyed.

4 CHMN. CHENAL: Remind me, sir, what you mean
5 when you say "ephemeral."

6 MR. KORONKIEWICZ: Ephemeral, meaning not
7 permanent, things such as ephemeral washes.
8 Occasionally, if we're so lucky to see some rain, you
9 would get water in those features, such as ephemeral
10 water sources. And again, the Little Colorado River is
11 an intermittent water -- a water source as well. It's
12 only in times of big precipitation events would we see
13 moisture in those drainages.

14 CHMN. CHENAL: So is there a difference
15 between ephemeral and intermittent? Is intermittent a
16 term of art, like ephemeral is, when describing water
17 sources?

18 MR. KORONKIEWICZ: Yeah. They're pretty
19 synonymous with each other, both terms.

20 CHMN. CHENAL: So I'm just curious. How
21 often does the Little Colorado River -- in the area
22 where the project is located, how often is there
23 actually water of some measurable amount during the
24 course of a year?

25 MR. KORONKIEWICZ: Yeah. We usually see

1 it -- how often? I think every year you will see some
2 smaller areas, puddled areas, for example. But in
3 years that you would actually see some form of flow,
4 those are correlated with major precipitation events
5 largely in winter, when we see our winter storms up
6 here, up north.

7 CHMN. CHENAL: Okay, thanks.

8 MR. KORONKIEWICZ: You bet.

9 BY MR. ACKEN:

10 Q. Let's turn to Slide 26, mitigation measures.
11 And describe mitigation measures that will be used to
12 minimize effects to biological and aquatic resources.

13 A. All right. Because the project area is
14 largely located in areas subject to previous
15 disturbance and outside of areas that may provide
16 essential habitat for listed species, potential impacts
17 to special-status species present in the region are
18 unlikely to occur or would not rise to a level that
19 would warrant mitigation.

20 Transmission structures will be Avian Power
21 Line Interaction Committee recommendations.

22 Preconstruction surveys for burrowing owls,
23 if present, would be conducted by qualified biologists
24 according to a current Arizona Game and Fish Department
25 protocol, and areas occupied by burrowing owls would be

1 avoided should they occur.

2 And next slide, I believe.

3 CHMN. CHENAL: Before we leave, I have a
4 couple questions on that, the avian standards.

5 MR. KORONKIEWICZ: Yes, sir.

6 CHMN. CHENAL: We have some pretty standard
7 language in our CECs that require the applicant to
8 comply with two specific documents issued by the Avian
9 Power Line Interaction Committee, and I see one of the
10 proposed changes to the CEC that the applicant made in
11 this case was to strike the reference to those two
12 specific publications and just refer to the most recent
13 publications. So that prompted me to, for the first
14 time, to get onto the Committee's website and actually
15 see what publications are published in relation to
16 mitigation measures for power lines with respect to
17 avian measures.

18 The only two I could find were the two that
19 were language in our previous cases, the 2006
20 standards. And I'm going to ask you to distinguish
21 between the word "standards," because there are 2006
22 standards for the Avian Power Line Committee, and then
23 there are the recommended measures to minimize the risk
24 of collision in the 2012 guidelines of the Avian Power
25 Line Interaction Committee. So there's 2006 standards,

1 and then there are 2012 recommended measures. And I'd
2 like you to speak to what are those two different
3 documents and what's your understanding of each?

4 MR. KORONKIEWICZ: Understood. The 2006
5 document, the use of standard, versus the 2012
6 recommendations, I don't know why they changed those
7 titles. To the best of my knowledge, a lot had been
8 learned since 2006 to 2012 during that interim. I know
9 there was a lot more data exchanged with the Fish and
10 Wildlife Service and others from other developers. I
11 could only think of that -- again, my best guess would
12 be that it just is a matter of nomenclature which
13 reflects just a lot more knowledge learned since 2006.

14 CHMN. CHENAL: Okay. Because, I mean, I
15 don't want to speak for all lawyers, but to this lawyer
16 the word "standards" is a very specific term of art.
17 It means, this is what thou shalt comply with. It's a
18 commandment. It's a level that has to be met.
19 Whereas, a recommended measure is simply a
20 recommendation that is not -- one isn't obligated to
21 follow.

22 So I haven't really delved into the two
23 documents, but I guess, just from the title of the two
24 documents, they aren't mutually exclusive. In other
25 words, one is standards and one is recommended

1 measures, and I think that's why in the past we've
2 always had the applicant comply with both. So can you
3 speak to that?

4 MR. KORONKIEWICZ: I guess in the same
5 context of what I was trying to frame up before.
6 Although called standards, I recall that essentially
7 they were also recommendations as well. I don't think
8 developers in either case are obligated to comply with
9 either; hence, maybe the term recommendations. Again,
10 a lot of information from power line projects across
11 the United States went into those documents, so the
12 degree to which -- maybe the appreciative nature from
13 the Fish and Wildlife Service, who's the lead agency on
14 those documents, might have reflected that in the name
15 change.

16 CHMN. CHENAL: And I'm not trying to trip you
17 up. I promise you, I'm not.

18 MR. KORONKIEWICZ: Oh, understood, sir.

19 CHMN. CHENAL: But are you able, sitting here
20 now, to testify the differences between what's in the
21 2006 document versus the 2012 document, or you just
22 don't know at this point?

23 MR. KORONKIEWICZ: I would have to look into
24 that further and could definitely get back to you.

25 CHMN. CHENAL: And that's okay. This wasn't

1 a trick question. I just --

2 MR. KORONKIEWICZ: Understood.

3 CHMN. CHENAL: I wasn't fond of the change,
4 and I'm going to -- when we get to that point, I'm
5 going to say, I think we should keep it the way it was
6 and refer to the two documents as we have in the many,
7 because those are the only two that are listed that I
8 could see on the Committee's website in terms of
9 documents. But, okay, you've answered my question.
10 Thank you.

11 MR. KORONKIEWICZ: Thank you, sir.

12 BY MR. ACKEN:

13 Q. Okay, thank you. I think we're ready for
14 your conclusions on Slide 27. What is your overall
15 assessment of the project's effect on biological and
16 aquatic resources?

17 A. Again, overall, our analyses have shown that
18 the preferred and alternative routes are
19 environmentally compatible, having effectively
20 minimized impacts to common wildlife, threatened or
21 endangered species or their habitats, as well as
22 aquatic resources.

23 Q. And do you have any further comments for the
24 Committee at this time?

25 A. I do not.

1 CHMN. CHENAL: Does the Committee have any
2 questions of the witness? I'm terrified to try to
3 pronounce your name. Koronkiewicz.

4 MR. KORONKIEWICZ: Koronkiewicz, but thank
5 you for asking.

6 CHMN. CHENAL: Koronkiewicz. I'm going to
7 stay with that, and that's the last time I'm going to
8 say it.

9 But any other questions from the Committee at
10 this time?

11 (No response.)

12 CHMN. CHENAL: Okay. Mr. Koronkiewicz, thank
13 you for your testimony. Appreciate you appearing.

14 MR. KORONKIEWICZ: Thank you, sir.

15 MR. ACKEN: Thank you, Mr. Chairman.

16 The applicant calls Randy Simpson.

17 CHMN. CHENAL: Mr. Simpson, let me know when
18 you're ready and we'll swear you in.

19 MR. SIMPSON: Ready.

20 CHMN. CHENAL: Do you refer prefer an oath or
21 an affirmation?

22 MR. SIMPSON: Oath, please.

23 CHMN. CHENAL: Would you raise your right
24 hand.

25 (Randall Simpson was duly sworn by the

1 Chairman.)

2 CHMN. CHENAL: Mr. Acken.

3

4

RANDALL SIMPSON,

5 called as a witness on behalf of the Applicant, having

6 been previously sworn by the Chairman to speak the

7 truth and nothing but the truth, was examined and

8 testified as follows:

9

10

DIRECT EXAMINATION

11 BY MR. ACKEN:

12 Q. Please state your name and business address
13 for the record.

14 A. My name is Randall Simpson. My business
15 address is 1850 North Central Avenue, Suite 800,
16 Phoenix, Arizona 85004.

17 Q. By whom are you employed and in what
18 capacity?

19 A. I'm employed by Burns McDonnell. We are an
20 engineering and planning firm. My role there is a
21 senior project manager and environmental planner.

22 Q. And what was your role in the CEC application
23 for this project?

24 A. I assisted with preparation of the CEC
25 application, including some of the technical studies,

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1 several of the map exhibits, specifically application
2 -- or, Exhibit E of the application, the scenic areas
3 assessment. I also did some coordination and meetings
4 with Navajo County, conducted some field review of the
5 project site, and also participated in the public
6 outreach, in particular the public meetings.

7 Q. Please provide an overview of your
8 educational and professional background.

9 A. My academic background is I received a
10 bachelor of landscape architecture in 1993 and a
11 bachelor of environmental science in 1992 both from
12 North Dakota State University.

13 I have approximately 28 years of professional
14 experience primarily providing environmental planning
15 and consulting services for energy infrastructure
16 projects. Those projects have been throughout Arizona,
17 as well as several other western states. I have
18 previously conducted studies for several projects here
19 in Arizona that have been presented before the Siting
20 Committee, and I've testified before them, the Siting
21 Committee, in Cases 116, 122, 127, and 131.

22 Q. Next, I'm going to ask you to describe how
23 you evaluated scenic areas and visual resources, but I
24 understand we have a new exhibit. So did you want to
25 introduce that?

1 A. Yeah. Earlier today, we had inadvertently
2 missed a slide in the package that you received, so we
3 submitted INV-7, which is Slide 28.1, so it comes right
4 after 28, and it was basically a slide titled
5 methodology. So we've added that to the tables in
6 front of the Committee Members that are here present,
7 and we also have some additional copies if needed.

8 CHMN. CHENAL: Mr. Simpson, I think the rules
9 require us to wear the mask at all times, even when
10 we're testifying.

11 MR. SIMPSON: I was running out of air.

12 CHMN. CHENAL: Pardon me?

13 MR. SIMPSON: I was running out of air a
14 little bit there. Maybe talking too fast.

15 CHMN. CHENAL: Okay. Well, we're happy to
16 have you slow it down a little then.

17 MR. ACKEN: It's all kinds of fun new
18 challenges for all of us. I was worried about that
19 today as well.

20 BY MR. ACKEN:

21 Q. All right. So on the screen is INV-7,
22 Slide 28.1. Why don't you summarize how you evaluated
23 scenic areas and visual resources.

24 A. Thank you. Yeah. This information is
25 presented in detail in Exhibit E as well, but I do want

1 to touch on a few key items relative to the methodology
2 that we use to evaluate scenic and visual resources.

3 Essentially, the purpose of the studies was
4 to characterize the level of visual modification that
5 would occur in the landscape after construction and
6 operation of the project. Specifically, our evaluation
7 included studies related to landscape scenery and
8 sensitive views. Landscape scenery can be defined as
9 the scenic quality of the different landscape units in
10 the area. And sensitive viewers are oftentimes
11 travelers on roadways or residences or recreation
12 areas, things of that nature.

13 Our methodology followed guidelines that were
14 established by the Bureau of Land Management and Forest
15 Service for management of scenic resources on federal
16 lands. More specifically, we adapted those guidelines
17 for the analysis of the proposed 500 kV transmission
18 line within this study area.

19 We conducted two specific field reviews to
20 collect and analyze visual data; that included
21 photography, mapping, things of that nature. And we
22 also have prepared two visual simulations which are in
23 the application, and we're going to talk a little bit
24 about them later, but they were essentially prepared
25 along Obed Road to illustrate both the preferred and

1 alternate conditions if the line were to be built on
2 those alignments.

3 Q. So we have seen photographs of the project
4 area in the biological resources testimony and also in
5 Ms. Innis' testimony, as well as the virtual tour.
6 Could you provide kind of the -- I guess the expert
7 view of the scenic resources that are in the vicinity
8 of the project?

9 A. Yes.

10 Next slide, please.

11 Yeah. So we're going to talk specifically
12 about the two topics I mentioned earlier, scenic
13 quality and viewers. Hopefully, you'll be able to
14 recall some of the imagery that was presented in the
15 virtual route tours that Ms. Innis presented, because I
16 think it's important to reflect back on that, as well
17 as the photos that we included in Exhibit E.

18 But as you guys have probably surmised at
19 this point, the area is very rural in nature. It's
20 characterized largely by grazing activities and
21 industrial development associated with the Cholla power
22 plant and the Burlington Northern Santa Fe railroad
23 corridor. The terrain in this area is relatively flat.
24 There is some topographic relief with some rock
25 outcroppings in the area, but generally it's pretty

1 flat.

2 There are numerous high-voltage transmission
3 lines that connect into the Cholla plant, and that's
4 not only coming from the south, but they also come from
5 the north as they make their way up to the Four Corners
6 area. So the setting itself is very much influenced by
7 this history, this long history of energy development
8 in this area.

9 Associated with the -- it's not showing up
10 too well. But associated with the project area, we've
11 inventoried four different classifications of
12 landscape. Shown in blue is an area that we called
13 Class A, and that is the Little Colorado River
14 corridor. And that's probably the most diverse and
15 unique resource in the study area. There are sections
16 outside the study area that probably are a little more
17 pristine. Again, this area of the Colorado River, it's
18 influenced because it's right up against the railroad,
19 there's flood control features there, there's erosion
20 control features against the railroad, there's quite a
21 few crossings of the Colorado River there from existing
22 transmission lines. So we did inventory it and called
23 it a Class A landscape, but it is heavily influenced by
24 industrial development in the area that we're really
25 focused on near the power plant.

1 The Class B landscapes are these dissected
2 plateaus that are shown in the green. Let's go back
3 there, please. So those areas are characterized -- a
4 little bit more diversity in soil color. The terrain
5 there is a little more diverse. That's the area where
6 you do see some rock outcroppings out by the solar
7 plant and to the areas on the western side of the
8 transmission line routes. The areas that are
9 influenced by some drainages, that's hence the
10 dissections of the plateaued landscape there. So
11 there's little bit more of a diversity, unique colors
12 with the soil and whatnot, and so they were inventoried
13 as Class B.

14 Class C landscapes are the area in between
15 the plateaus and the river corridor, and we considered
16 them to be grasslands and lowland areas. And again,
17 they're relatively flat. There's a higher density of
18 vegetation in those areas, predominantly kind of high
19 desert scrub vegetation. There's not a lot of
20 significant trees or anything. It's mostly shrubs and
21 grasses for the most part. There are some trees along
22 the edges of the Colorado River, but those were
23 inventoried as Class C.

24 And then the D areas are developed areas. So
25 that's the areas around the Cholla power plant and the

1 areas associated with Joseph City. So you have quite a
2 bit of development north of I40 and then some
3 development just to the south of I40.

4 So that's kind of the scenic quality setting.
5 And generally speaking, impacts to the scenic quality
6 are pretty modest. Again, the area does not have a
7 wealth of unique or special visual features associated
8 with it. Again, I would say areas outside of here,
9 outside of the study area along the Little Colorado
10 River, might be an exception, but in this case it's
11 fairly industrialized in this setting. So there are no
12 protected landscapes, per se, in this area.

13 Q. What kind of viewpoints do you have in the
14 area?

15 A. Next slide, please.

16 So this map shows the inventory viewpoints.
17 And what you're seeing with the different colors on
18 this map are the distance zones that are shown from the
19 actual viewing location. So we have major road
20 corridors, Obed Road, McLaws, and Territorial Road
21 here, and I40 here. And then you have three
22 residences, which are all located in the same ranch
23 farmstead, just east of Obed Road. And other than
24 that, there were no specific fixed viewing locations in
25 the area; there are some dispersed recreation that may

1 occur in the area.

2 But generally speaking, my experience in the
3 area was that most people viewing this environment are
4 traveling around on Obed Road north/south. And so
5 people, I think, from Joseph City use that to travel
6 south to some destinations south of here, and then
7 occasionally from Holbrook and Winslow along McLaws and
8 Territorial Road, but I think for the most part, we
9 felt like Obed Road was really the primary access point
10 that the public would use to access this area.

11 Almost all of the lands are fenced off and
12 gated. Most of the gates are locked. So it's
13 difficult for the public to go out here and really
14 access any of the private lands outside those road
15 corridors.

16 As I mentioned, we did prepare a couple of
17 visual simulations, and we'll show them next. One of
18 the viewpoints is located at the preferred route just
19 to the north side viewing southbound, and the other one
20 is located a little bit further south of the alternate
21 route and it is also viewing southbound. And we'll
22 show them a little bit more specifically.

23 But, you know, one thing I would say is,
24 again, impacts generally to viewers in this area were
25 pretty modest. And, you know, the residences

1 themselves, they're located on the opposite side of
2 three existing transmission lines. So we did feel like
3 the impacts to the residences, even though they're
4 close to the alternative corridor, they are viewing
5 across three existing lines to see even the preferred
6 route. So again, we do have some residences there, but
7 we just felt like the impacts were not significant
8 because of the presence of existing lines.

9 I think -- next slide, please.

10 Q. And this is Slide 31, Simulation 1. If you
11 would, please describe this for the Committee.

12 A. Yeah. So we just talked a little bit about
13 the location of these, and I think now it's easier to
14 see what I was saying. This is a simulation that was
15 completed along the preferred route, and this is
16 located on Obed Road. You're viewing southbound and
17 you're about a quarter mile or maybe a little less,
18 thousand feet, south of where the transmission line
19 route would potentially follow the section line.

20 What you can see here in the background is
21 some existing distribution lines. Some of these
22 connect back towards the Cholla facility. Some of them
23 extend out into the project area and serve wells and
24 the residences that are out there and then also some
25 communication facilities that are out in the area. But

1 you do have quite a few of these distribution lines
2 scattered throughout the study area, including up by
3 the power plant.

4 What you see in the proposed conditions is
5 the steel lattice structures that we're anticipating
6 would be used in the areas outside the Cholla
7 substation. The typical span links that you see if you
8 were to measure the existing lines in these areas are
9 anywhere from a thousand to 1,500 feet. I estimated an
10 approximate average of about 1,200 feet between spans.
11 So in this case, you can see one structure would be
12 located on one side of the road and you'd be able to
13 clean span the road, and the next structure would be
14 several hundred feet to the east. And again, this is
15 an area that residents traveling southbound from Joseph
16 City would see as they traveled southward.

17 Q. Next, describe Simulation 2 on Slide 32.

18 A. All right. So this is about -- maybe about a
19 mile further south. Again, this is a southbound view.
20 Also, you can see, in this particular setting, some
21 more distribution lines. Like I say, they continue on
22 all through the study area to get to a number of
23 different facilities that are out in the area.

24 In this case, as Susan, Ms. Innis, presented
25 in her testimony, this route would parallel two 345 kV

1 lines that come out of Cholla and they travel all the
2 way down to the Phoenix metro area. So they're pretty
3 long-haul lines, and you can see them here in this
4 location. And again, these spans are approximately
5 1,200 feet for these existing lines.

6 So if you look at the proposed conditions,
7 we've simulated that, also showing that we would match
8 the approximate span distances. And you can see the
9 new facility a little -- in this case a little bit
10 closer to the viewer than the existing lines, but you
11 can see how the lines would match up with that corridor
12 and match the structure type and, generally speaking,
13 would have minimal impact, I think, to the viewing
14 conditions in this area.

15 Q. Are there any mitigation measures that can be
16 used to further minimize impacts?

17 A. Next slide, please.

18 Yes. In fact, it's fairly common for
19 projects of this nature to have a range of different
20 mitigation measures. Oftentimes, these are design
21 measures that are considered when the appellant is
22 actually designing the facility when they're ordering
23 materials.

24 Oftentimes, in these rural areas one of the
25 things you're concerned about is seeing reflections or

1 glare from the structures, so oftentimes they'll use a
2 galvanized or surface-treated metal finish that dulls
3 it that helps minimize the glare. The conductors, or
4 the wires themselves, can also be surface treated so
5 that they are essentially nonspecular, is the term
6 that's used, and that can help reduce glare from the
7 wires as well.

8 And then as I mentioned in the second
9 simulation, matching of spans, where we have existing
10 transmission line structures and matching the structure
11 types themselves, typically helps reduce visual impact.

12 And then on the ground, utilizing existing
13 access roads to minimize surface disturbance. And
14 because this is relatively flat, you don't see as much
15 benefit in this area as you might in areas with steep
16 terrain where if you blade new roads, you can
17 oftentimes see those roads as much as the transmission
18 line corridor, especially at distance. But both of
19 these routes do have existing ranching roads and
20 transmission line access roads nearby, and so we felt
21 like both of these routes would be able to take
22 advantage of the presence of those existing routes and
23 result in building fewer new roads to construct the
24 line and operate and maintain it. So we feel like
25 that's a benefit to this project, and fairly typical

1 industry standard things that can be done to reduce
2 impacts.

3 CHMN. CHENAL: Mr. Simpson, your last point
4 about roads, using existing roads -- obviously, the
5 applicant would do that -- but were there more access
6 roads, existing access roads, for the preferred route
7 or the alternative route?

8 MR. SIMPSON: They're very similar. What I
9 would say is you have roads that are almost the entire
10 length of both routes; and depending upon where you
11 physically site the roads, you could be either fairly
12 close to the road or just a few hundred feet away.

13 About the only exception where we don't have
14 roads is the crossing of the Little Colorado River, for
15 obvious reasons. But, you know, again, I believe with
16 spanning that, you'll also be able to reduce impact to
17 the actual river corridor itself.

18 So I feel like they're fairly similar. The
19 roads for the preferred route are ranching access roads
20 and they follow along the section lines and they go out
21 to some of the ranching infrastructure that's out
22 there. The road on the existing -- or, the preferred
23 route is largely a result of the access road for the
24 existing transmission line to perform maintenance and
25 it was used during construction.

1 CHMN. CHENAL: Member Noland.

2 MEMBER NOLAND: Thank you.

3 Mr. Simpson, you haven't mentioned the little
4 pond, lake, body of water to the east of the Cholla
5 plant. Is that used in the plant itself, or what is
6 that water, body of water?

7 MR. SIMPSON: Typically ponds like that are
8 either makeup water, so it's used for cooling, or it's
9 used to discharge water that has already been used for
10 cooling purposes. I don't know if I can tell you for
11 sure which is which in this area, but I also know that
12 there is a well field out in our study area where I
13 believe water is pumped. And I don't know if that's
14 only secondary use, but I would say, you know, it's one
15 of the -- one of the two. And perhaps APS could give
16 you a better answer. But it's usually makeup water or
17 discharge water.

18 MEMBER NOLAND: So a manmade water structure?

19 MR. SIMPSON: Yes.

20 MEMBER NOLAND: Thank you.

21 MEMBER DRAGO: Mr. Chairman.

22 CHMN. CHENAL: Member Drago.

23 MEMBER DRAGO: Mr. Simpson, thank you. I've
24 got a question on Slide 29 with the Classifications A
25 through D. Just for my own understanding, is that a

1 reference document that you use that defined those
2 classes, and then you took the features of your
3 proposed project area and then found those features to
4 be classified under A, B, C, or D? Is that -- can you
5 tell me a little bit how that works?

6 MR. SIMPSON: Some of those details are
7 presented in the application, but that classification
8 system is a derivative of the guidelines that the
9 Forest Service and Bureau of Land Management use. So
10 in order to delineate those units, this was something
11 that we -- typically, we'll use either aerial
12 photography and topo maps and we'll map them out
13 ourselves to kind of delineate distinctive units, and
14 then when we go out in the field we'll confirm those
15 units.

16 So in this case, these units were based on my
17 interpretation of a map, aerial imageries, and field
18 work that was conducted to kind of delineate these
19 zones. And so you look at things like vegetation type,
20 soil pattern, soil colors, land patterns, rock
21 outcroppings. And so it's not a perfect science, but
22 you're kind of trying to characterize the area into
23 zones so you can determine if there's different levels
24 of modification in each of those zones; therefore,
25 what's the level of impact.

1 MEMBER DRAGO: Gotcha. Thank you.

2 CHMN. CHENAL: Member Riggins.

3 MEMBER RIGGINS: Mr. Simpson, and maybe this
4 is more of a land use question for the next testimony,
5 but with respect to, as you stated in your testimony,
6 the distribution lines that are supplying power to
7 wells, and I know there are several exempt and
8 nonexempt wells within the proposed solar facility
9 area, is there any plan to incorporate those into the
10 solar facility or is there any sort of plan as far
11 as -- if they're going to be abandoned, what is -- is
12 there any sort of plan as far as mitigating the impact
13 to those wells, or are they going to be incorporated
14 into the solar facility?

15 MR. SIMPSON: Yeah. I think Ms. Innis might
16 be better suited to answer that. I do know, spending
17 some time in the area, most of the lines could be
18 avoided, I think, from the project standpoint. Perhaps
19 the solar facility itself may have to try to
20 accommodate a couple of the lines that serve some wells
21 out there. But I don't believe, you know, from my
22 perspective, having spent quite a bit of time in the
23 field, that we would directly impact any of those lines
24 with this -- with the proposed structures themselves.

25 MEMBER RIGGINS: And the well field that you

1 mentioned with respect to the retention ponds at
2 Cholla, is that in the study area -- or, in the
3 proposed solar area or just the study area in general?

4 MR. SIMPSON: Yeah, on -- I forget the
5 exhibit offhand, but one of the land use exhibits, I
6 believe it might be A-2 or 3, actually shows that
7 network of wells. And so again, I got that information
8 partly from looking at the aerial imagery and then
9 doing a little bit of research on my own and then
10 confirming some of those locations out in the field.
11 But yeah, they're -- and I also believe there are some
12 wells, like you say, that aren't used out there, but
13 there's probably a well shaft or a well head that might
14 be even buried out there, but the shaft itself might
15 still exist. I know, driving around with a rancher, he
16 pointed out a lot of them; some of them I couldn't tell
17 there was a well there.

18 MEMBER RIGGINS: Okay, thank you.

19 BY MR. ACKEN:

20 Q. Mr. Simpson, to finish up your testimony, why
21 don't you provide your conclusions regarding the
22 project's potential effects on visual resources and
23 scenic resources that's shown on Slide 34.

24 A. Yeah, a couple of key points. Again, with
25 our evaluation, and one thing that I think is really

1 important, is this is a relatively short, direct
2 transmission line connection from the solar facility
3 into the Cholla substation. If you look at the size of
4 this generation facility, I think you get a lot of
5 megawatts for a relatively short line, and so I think
6 the strategic siting of the solar plant here helps
7 reduce the overall footprint of this transmission
8 project.

9 As I mentioned, there are a number of
10 high-voltage lines, just the nature of this area, the
11 history of the area, both along the railroad tracks, as
12 well as coming in and out of the Cholla substation.
13 And then some of the ranching features, you know, it's
14 not uncommon to find energy infrastructure almost all
15 throughout the project study area of different sizes.

16 The conformance with the Navajo County
17 comprehensive plan, and specifically the Aztec area
18 plan, is also in line. Again, there were no real
19 specific protections that they had in place for this
20 project area. Most of their guidelines were, you know,
21 more for developed resources that just simply don't
22 exist out here. They also do talk about this area as
23 being compatible and desirable for renewable energy
24 development. So again, I feel like in general it
25 conforms to the plan and is the right place for a

1 facility like this.

2 Overall impacts to scenic resources would not
3 be considered significant. Both the preferred and
4 alternate routes are compatible with scenic and visual
5 resources. And again, I feel like this is very
6 compatible compared to other projects that I've worked
7 on where the Siting Committee has reviewed and approved
8 those projects as well. I think it's very commensurate
9 with the prior work and recommendations we've made.

10 CHMN. CHENAL: Are there any -- I probably
11 should have asked this of the previous witness, but to
12 your knowledge, Mr. Simpson, are there any restrictions
13 on placement of the poles or the structures across the
14 little Colorado?

15 MR. SIMPSON: I don't believe there would be,
16 but the goal would be to be far enough, I think, from
17 the edges of the river bank so that you have
18 appropriate stability and easy access for long-term
19 maintenance and whatnot, and I think that helps. And
20 again, that's one of the benefits, I think, to the
21 preferred route, is it's little easier, in my opinion,
22 to get across the river there. Where that crosses,
23 it's a shorter crossing, so it makes spanning it and
24 getting across it a little easier.

25 But from a visual standpoint, you come into

1 an area where you already have existing lines. That's
2 the point at which you have a lot of lines. So we
3 would try to, you know, cross the river, I think, in a
4 similar fashion that's already out there; therefore,
5 hopefully minimizing the visual impact.

6 CHMN. CHENAL: Right. I was more thinking if
7 it was a floodplain or if it was a flood zone area or
8 whether there were some, I don't know, restrictions on
9 where structures could be placed.

10 MR. SIMPSON: The river channel would present
11 the biggest challenge. You wouldn't want to be in
12 there. I mean, that river can move a lot of water.
13 And the prior witness -- during high periods of runoff,
14 it can move a lot of water. So you just want to be far
15 enough back.

16 More than likely you're going to probably be
17 somewhere in that floodplain, because you can kind of
18 see the patterns out there, and I think the floodplain
19 is fairly broad historically. So I do think you're
20 going to probably be on the edges of the floodplain
21 itself, but not in the channel, which I think is the
22 real issue.

23 CHMN. CHENAL: Any -- well, I'm not sure if
24 you're finished. We had a series of questions for
25 Mr. Simpson. I'm not sure you're finished with him,

1 Mr. Acken.

2 MR. ACKEN: Thank you, Mr. Chairman.

3 BY MR. ACKEN:

4 Q. I do believe that completes your testimony,
5 unless you have any other final comment?

6 A. That's it. Thank you.

7 MR. ACKEN: Thank you.

8 CHMN. CHENAL: Do any of the other -- any
9 members have any questions, the ones appearing via
10 Zoom?

11 MEMBER HAENICHEN: Mr. Chairman.

12 CHMN. CHENAL: Yes, Member Haenichen.

13 MEMBER HAENICHEN: Are we going to get an
14 opportunity to question the APS witness?

15 CHMN. CHENAL: I'm sorry. Which witness,
16 Member Haenichen?

17 MEMBER HAENICHEN: APS, Linda.

18 CHMN. CHENAL: Yes, I think we're going to
19 need to hear from APS. I know I have some questions,
20 and I think you still do, and I think it would be very
21 helpful.

22 MEMBER HAENICHEN: But that's not now, is
23 that what you're saying?

24 CHMN. CHENAL: Well, it will be tomorrow.

25 MEMBER HAENICHEN: Okay.

1 CHMN. CHENAL: Because the applicant has one
2 more witness this evening. So there will be -- there
3 will be an opportunity tomorrow.

4 MEMBER HAENICHEN: Yeah, that's fine.

5 And also, then, I would like the opportunity
6 to just put in the record questions for Ms. Innis so
7 that she can know what she has to dig up tonight. So I
8 guess I'm interested in -- on your existing
9 200-megawatt farm, solar PV farm, what percentage of
10 the output energy is pure 60-hertz and what percentages
11 are in the harmonics? And then do you envision any
12 changes in those numbers with the new facility, for
13 example, improvements in inverters and that kind of
14 stuff?

15 MR. ACKEN: Chairman Chenal, Member
16 Haenichen, our thought was -- would be to get through
17 our direct, give APS the opportunity to respond to some
18 of the questions, and then Ms. Innis can come back,
19 have time to do some homework, and be in a position to
20 answer your questions.

21 MEMBER HAENICHEN: Yeah. I just wanted to be
22 sure that she has enough information on my questions to
23 get the right answers.

24 MR. ACKEN: And we thank you for that.

25 And, Mr. Chairman, if I could, if I could

1 just ask my witness if that's clear to her or if she
2 needs any further clarity at this time as to the
3 questions.

4 Okay. We may bring in a subject matter
5 expert to answer those questions.

6 CHMN. CHENAL: And, you know, that would be
7 fine.

8 MR. ACKEN: Okay.

9 CHMN. CHENAL: That would be fine, because I
10 think we'd like to hear the testimony. And I know it's
11 a little out of order, but there won't be an objection;
12 and if there was, I'd overrule it and we could hear the
13 expert.

14 And I want to just foreshadow to APS. I
15 think there's some questions that Member Haenichen has
16 and I'd like to get a little more background on, I
17 guess. What's going to happen to the power when it
18 comes into the substation? And why are there 365 kV
19 and 500 kV lines? Was that power all generated at
20 Cholla? And as it's decommissioned, where is this
21 power -- because this is going to basically supplant
22 the Cholla power, where is this power going to go and
23 what lines are going to be used? And if you're not
24 going to use the 345 kV and the 500, well, will some of
25 the lines be decommissioned? So I think this general

1 background will be very helpful to me.

2 And I also feel -- and it's just me. I know
3 Ms. Innis covered CEC-2, but it just seems, as I'm
4 sitting here now, I have a much better feel for CEC-1
5 than I do for CEC-2. And that's just probably me, but
6 I just -- maybe I need to hear a little more or see a
7 little more; I don't know. CEC-2 is still not fixed in
8 my head. And maybe there's not much that needs to be
9 discussed, if anything, really, but I'm just a little
10 -- I guess I'm a little unclear as to what happens when
11 we get to the change in ownership and then maybe hear a
12 little testimony about what -- like I said, what
13 happens to the power at that point and maybe a little
14 more explanation from APS would be helpful for me.

15 MS. BENALLY: Chairman Chenal, we do have
16 Brad Larsen, as I mentioned this morning, available to
17 testify tomorrow as the Committee wishes, and he will
18 be speaking more specifically to CEC-2, the facilities
19 associated with that.

20 We had also filed a supplemental witness
21 summary, because there are some areas that require
22 specialized knowledge since this is an interconnection.
23 So we had added Jason Spitzkoff as a potential witness,
24 so he may also be joining tomorrow.

25 The team will have to meet this evening, but

1 we will have Brad Larsen testify tomorrow to be
2 responsive to the Chair and the Committee's questions.

3 CHMN. CHENAL: Very good. Thank you.

4 MEMBER HAENICHEN: Mr. Chairman.

5 CHMN. CHENAL: Yes, Member Haenichen.

6 MEMBER HAENICHEN: Following that testimony
7 you just made, just to give you a heads up about what I
8 need to know tomorrow. One is, does APS have any route
9 preference between the two? That's one thing I'd like
10 to know.

11 And the other thing is, in the long haul,
12 like 2025, you're going to be replacing a 24/7 pure
13 60-hertz sine wave power source with an intermittent
14 power source that has harmonics associated with it, and
15 I want to know how APS feels about that in terms of
16 servicing their customers, existing customers, for the
17 energy from Cholla.

18 MS. BENALLY: That's noted, Committee Member
19 Haenichen.

20 CHMN. CHENAL: Thanks. Thank you very much.
21 And Ms. Benally, I know the other -- Mr. Acken here is
22 very familiar with it, but this is really typical of
23 our cases where we try to telegraph, during the course
24 of the hearing, that there's certain things we'd like
25 to hear so there's no surprises at the end and we can

1 give you an adequate opportunity to line your witnesses
2 up. So we kind of do it out of respect for you so
3 you're not surprised.

4 Mr. Acken, is there anything further from
5 Mr. Simpson?

6 MR. ACKEN: Not at this time. Thank you.

7 CHMN. CHENAL: Thank you, Mr. Simpson.

8 MR. SIMPSON: Thank you.

9 CHMN. CHENAL: I note that it's 5:00, but we
10 don't have the public hearing until 6:00. I know we
11 want some sort of a break.

12 MEMBER NOLAND: Yeah, a break before the
13 public --

14 CHMN. CHENAL: Oh, absolutely. But I guess
15 the question is: There's another witness that we would
16 like to present. Do we want to hear that this evening
17 or defer until tomorrow morning?

18 MEMBER HAENICHEN: Were they going to provide
19 dinner tonight or not?

20 CHMN. CHENAL: I don't think so tonight.

21 MEMBER HAENICHEN: Oh, I thought I heard that
22 earlier.

23 CHMN. CHENAL: I don't think so.

24 MEMBER HAENICHEN: Okay.

25 MEMBER NOLAND: There's the thing at the

1 hotel. I don't know what they're doing for sure.

2 CHMN. CHENAL: The applicant is not providing
3 dinner. I think that was --

4 MR. ACKEN: We are for tonight because of the
5 public comment session. And there is dinner out here
6 for the Committee Members.

7 CHMN. CHENAL: Oh, I'm sorry.

8 MR. ACKEN: That was my mistake.

9 CHMN. CHENAL: Thank you for that
10 clarification.

11 Well, do we want to break now? I think we'll
12 have plenty of time tomorrow. But if you would like to
13 go further with this witness -- because we're going to
14 start at 6:00, and I'm not sure there's going to be
15 much public comment tonight at 6:00.

16 How long do you think this witness will take,
17 Mr. Acken?

18 MR. ACKEN: Mr. Chairman, there's only a
19 handful of slides. He is covering two resources, but
20 the cultural resource in particular is very
21 straightforward, and land use there's a couple
22 questions. I think that his testimony shouldn't last
23 longer than Mr. Simpson's did, so a half hour with
24 questions if you want to grind through it.

25 CHMN. CHENAL: Well, I'm going to ask the

1 Committee. I could go either way.

2 My sense tomorrow is I don't want to run out
3 of witnesses at noon or 1:00 and feel pressure to start
4 going into deliberations. I'd rather do the
5 deliberations Wednesday morning. And so, you know, I
6 don't want to have a lot of dead time tomorrow. So
7 that's suggesting to me we defer your next witness to
8 tomorrow.

9 MEMBER HAENICHEN: Yes.

10 MEMBER RIGGINS: I agree.

11 CHMN. CHENAL: So let's call it an evening.
12 I think that's good. Let's call it an evening and give
13 the Committee an opportunity to have dinner, if they
14 want it now, and we'll start up at 9:00 tomorrow. And
15 I think we'll have plenty of time to go through the
16 witnesses, and I'm thinking we're going to then do the
17 deliberations -- start fresh Wednesday morning.

18 Member Haenichen.

19 MEMBER HAENICHEN: But we're still going to
20 have the evening session at 6:00 for the public?

21 CHMN. CHENAL: Yes, sir.

22 MEMBER HAENICHEN: Is it going to be in this
23 room?

24 CHMN. CHENAL: Yes, sir.

25 MEMBER HAENICHEN: And they're going to know

1 where to come and so on?

2 CHMN. CHENAL: Yes. And also, the applicant
3 has set it up so that public comment could be taken by
4 Zoom. So people could appear by Zoom as well to make
5 it easier on them. So we could have some of each.

6 MEMBER HAENICHEN: Good.

7 CHMN. CHENAL: Anything further we need to
8 talk about before we adjourn for the evening?

9 (No response.)

10 CHMN. CHENAL: Any of the Members that are
11 appearing by Zoom have anything further to add?

12 (No response.)

13 CHMN. CHENAL: If not, we'll adjourn. See
14 everyone tomorrow at 9:00, and this evening at 6:00.

15 (Off the record from 5:03 p.m. to 6:09 p.m.)

16 CHMN. CHENAL: This is the time set for -- a
17 few minutes late. Sorry for the delay. It's technical
18 matters with the COVID, but we're doing the best we can
19 to accommodate public comment for the Hashknife Energy
20 transmission project. And we always take public
21 comment.

22 My name is Tom Chenal. I'm the Chair of the
23 Line Siting Committee. We have the full complement of
24 Committee Members here. We heard testimony starting at
25 a little after 1:00 this afternoon, and we value the

1 public comment on all our projects.

2 Some of our Committee Members are in person
3 and some are attending via Zoom. And so we made sure,
4 with the applicant, that the public would have the
5 ability to do the same, either appear in person or
6 appear via Zoom or even phone.

7 So with that, what we want to hear from you
8 is your position on the project. We try to keep public
9 comment to no more than 5 minutes per person. And if
10 someone has stated ahead of you basically your
11 position, you can basically just summarize your
12 position. It's not evidence, but we rely on it. It
13 helps inform us, it helps us to ask questions and
14 direct the hearing, so we value the public comment.

15 So with that, I know we're doing this with
16 people who are appearing by Zoom, at least I believe
17 there's three or four people, maybe a few more could
18 attend. But we're trying to get your contact
19 information so if in the future if a CEC, Certificate
20 of Environmental Compatibility, is granted by our
21 Committee and it's approved by the Corporation
22 Commission, if the applicant later comes in and tries
23 to amend it or extend it in some fashion, you'll be
24 notified so you have an opportunity to appear at that
25 hearing. So that's why we capture your contact

1 information.

2 So with having said that, maybe we -- in no
3 particular order, Ms. Innis, if you would direct which
4 of the parties can begin their public comment.

5 MS. INNIS: Yeah, I just want to make sure.
6 We had a number of people on the line when we started
7 this at 6:00, so I just want to double-check. I think
8 we logged in Steve Brophy from Aztec Land & Cattle.

9 Steve, are you there?

10 (No response.)

11 MS. INNIS: Can we unmute Steve?

12 MR. BROPHY: I'm sorry. I was struggling to
13 unmute myself, but I am here, Susan.

14 MS. INNIS: Thank you, Steve. Hang tight.

15 Do we have any other members of the public
16 who wish to comment?

17 (No response.)

18 CHMN. CHENAL: Are there any members of the
19 public who wish to make comment in addition to
20 Mr. Brophy who are on mute and they can't tell us that
21 they want to communicate, I guess that's the issue.

22 So if I could ask the technical crew, who are
23 excellent, to make sure that the members of the public
24 are unmuted. I'm getting the thumbs up. So if there's
25 any member of the public besides Mr. Brophy who would

1 like to speak, we'll hear Mr. Brophy and then just
2 announce yourself after Mr. Brophy's comments and we'll
3 hear your comment.

4 So Mr. Brophy, I know you and I have worked
5 with each other in the past on the power plant -- on
6 the APA. It's nice to hear from you again. So if
7 you'd like to give us your comments, we'd all
8 appreciate hearing from you.

9 MR. BROPHY: Thank you, Mr. Chairman, and
10 Members of the Commission. Can I be heard?

11 CHMN. CHENAL: Yes.

12 MR. BROPHY: Thank you. I run Aztec Land &
13 Cattle company on whose property a majority of this
14 solar project, which is seeking your approval for
15 transmission access to Cholla, is located. So I'm sure
16 you will, but weigh my comments, which I intend to be
17 truthful and sincere, in light of our interests, and
18 our interests are Aztec's, that we fundamentally
19 support this transmission line access application for a
20 couple of reasons.

21 Obvious, one, it provides a much higher use
22 to our land than is presently being employed, which is
23 grazing. But also, it makes use of a number of natural
24 resources in changing times. One of them, obviously,
25 the sun, coupled with whatever Invenergy's technology

1 is.

2 But a far greater one, from I think a local
3 and a state standpoint, is the fact that -- and my
4 numbers are woefully imprecise, but there has to be
5 billions and billions and billions of dollars of
6 transmission assets that cross our property because of
7 the Cholla power plant from where this -- whose
8 switchyard this transmission access is intended to
9 connect to, which, given just the price of
10 coal-generated power alone, not to mention all the
11 other environmental restrictions that have either been
12 brought on by or imposed on coal, those assets from
13 both Cholla -- or, Cholla, but other coal generators,
14 are going to not be able to be used absent other
15 generation. And the only generation foreseeable, to me
16 anyway, is renewable generation.

17 Our property was enormously affected by the
18 Cholla power plant. APS put a well field on our
19 property with our consent, and there are two 345 kV
20 power lines and two 500 kV power lines that cross our
21 property and service the Cholla power plant and
22 interconnection needs of the system. So we've already
23 either been paid or paid the price, depending upon how
24 you look at it, for this crisscross of power lines
25 coming in -- coming into the Cholla switch and going

1 out of it, and that grand central station sort of set
2 of tracks has enormous value for their generation.

3 As I understand it, Invenergy has applied for
4 two paths into the Cholla switch. I have no idea what
5 your mechanism for evaluating that is or if it's choose
6 one or the other or both, but I can tell you that there
7 will be this and future applications for transmission
8 access to the Cholla switch to take advantage of the
9 billions and billions of dollars' worth of transmission
10 assets that come out of there and serve, among other
11 places, the Phoenix load center.

12 So we support it. We don't think that
13 there's any adverse -- specific adverse environmental
14 damage by adding two or more sets of tracks to the
15 grand central station group of tracks that comes in
16 there and goes out. I can't speak for the county or
17 the other people in Navajo County, but I can tell you
18 that there are distinct and decided and noticed
19 property tax advantages to something like this.

20 One of -- this particular project, not the
21 transmission lines, but the project, will affect one of
22 our grazing lessees, who's a legacy rancher, a
23 wonderful family of a hundred-plus years' tenure as
24 lessees on our land, and I'm certain they're not in
25 favor of it. And they've registered that opposition in

1 zoning actions that the County has taken with approval.

2 But beyond that, I think it is highly
3 beneficial -- again, I can't speak for the County --
4 but for Navajo County and its people.

5 In addition to that, all of this activity,
6 except for a section, that is proposed which would
7 service that generation -- or, the transmission, is on
8 our land, and we are by and large our own buffer. And
9 I say by and large. There's State land there and
10 there's also land that belongs to Arizona Public
11 Service, which will be affected one way or another by
12 this.

13 It's a long way of saying we support the
14 project.

15 MEMBER NOLAND: Mr. Chairman.

16 CHMN. CHENAL: Yes, Member Noland.

17 MEMBER NOLAND: Mr. Brophy, this is Committee
18 Member Noland. I'm a Navajo County resident. And I
19 want to know, do you have any preference between the
20 preferred route and the alternate route?

21 MR. BROPHY: Ms. Noland, given this project,
22 and depending upon demand for renewables, I don't, but
23 I do express the preference that both routes, either
24 now or in the future, will be in front of you for
25 consideration, because this isn't the only project that

1 I believe will be built in service to the generation
2 needs in the future that renewables are going to have
3 to provide. And both those routes go across our land,
4 and we've made room for them in our planning, and we
5 hope that the Commission recognizes that, to use that
6 crude example, you're going to need more than one train
7 track going into grand central station in the coming
8 years.

9 MEMBER NOLAND: Mr. Brophy, one other thing.
10 We that live in Navajo County have been aware of the
11 closure plans for the Cholla plant. And I wonder if
12 you see this as a first step in helping with the
13 downside of those closures and having an upside to
14 using the lines and generating clean energy?

15 MR. BROPHY: Well, it's sort of patronizing
16 of me to say yes, but I say not only yes, but hell yes,
17 with a couple of -- pardon my language -- a couple of
18 qualifiers.

19 This won't replace the loss in jobs that
20 Navajo County is going to experience. It will replace,
21 if built, some significant -- not significant, but
22 certainly important portion of lost property taxes.

23 But I also say, looking at it more broadly
24 than Navajo County, the state of Arizona has this
25 enormously valuable transmission asset that's sitting

1 there that has 3,000 megawatts' worth of future
2 capacity, much of which won't be used. It's incumbent
3 on the stewards of that transmission resource to do all
4 that is reasonable and proper and safe and correct to
5 occupy that transmission resource with a future
6 generation so that it is not, to mix metaphors, an
7 electrical freeway to nowhere.

8 MEMBER NOLAND: Thank you.

9 CHMN. CHENAL: Any other questions from the
10 Committee?

11 (No response.)

12 CHMN. CHENAL: Thank you, Mr. Brophy.
13 Appreciate your comments very much.

14 MR. BROPHY: Thank you, sir.

15 CHMN. CHENAL: Do any other members of the
16 public wish to provide public comment tonight? If so,
17 just please announce your name.

18 (No response.)

19 CHMN. CHENAL: I'm not hearing any, so --
20 going once, going twice. Okay. I think -- there's no
21 one here present live, so I think we'll close the
22 public comment portion of the hearing this evening. We
23 will resume the hearing tomorrow morning at 9:00 a.m.

24 And does the Committee have -- any further
25 questions or comments from the Committee before we

1 adjourn to tomorrow?

2 (No response.)

3 CHMN. CHENAL: Does the applicant or the
4 intervenor have any comments, matters we should
5 discuss?

6 MR. ACKEN: No, Mr. Chairman. Thank you.

7 CHMN. CHENAL: Okay. Well, let's adjourn for
8 the evening. Again, thank you for your comments,
9 Mr. Brophy, and we'll see everyone tomorrow at
10 9:00 a.m. Thank you.

11 (The hearing recessed at 6:24 p.m.)

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1 STATE OF ARIZONA)

2 COUNTY OF MARICOPA)

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16 Arizona, this 20th day of November, 2020.

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