

BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

In the Matter of the Application
of Rocky Mountain Power for
Approval of Changes to Renewable
Avoided Cost Methodology for
Qualifying Facilities Projects
Larger than Three Megawatts

Docket No. 12-035-100

~~~~~  
HEARING PROCEEDINGS  
~~~~~

TAKEN AT: Public Service Commission
Hearing Room 403
160 East 300 South
Salt Lake City, Utah

DATE: Thursday, June 6, 2013

TIME: 9:00 a.m.

REPORTED BY: Scott M. Knight, RPR

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

APPEARANCES

THE HEARING OFFICER: DAVID R. CLARK

CHAIRMAN: RON ALLEN

COMMISSIONER: THAD LEVAR

FOR DIVISION OF PUBLIC UTILITIES:

PATRICIA E. SCHMID, ESQ.,

ASSISTANT ATTORNEY GENERAL

160 East 300 South, Fifth Floor

Salt Lake City, Utah 84114

FOR OFFICE OF CONSUMER SERVICES:

KEVIN M. McDONOUGH, ESQ.,

ASSISTANT ATTORNEY GENERAL

160 East 300 South, Second Floor

Salt Lake City, Utah 84114

FOR UTAH CLEAN ENERGY:

SOPHIE HAYES, ESQ.,

UTAH CLEAN ENERGY

1014 2nd Avenue

Salt Lake City, Utah 84103

1 FOR ROCKY MOUNTAIN POWER:

2 YVONNE R. HOGLE, ESQ.,

3 ROCKY MOUNTAIN POWER

4 201 South Main Street, Suite 2300

5 Salt Lake City, Utah 84111

6

7 FOR SCATEC NORTH AMERICA:

8 DANIEL R. SIMON, ESQ.,

9 THERESA A. FOXLEY, ESQ.,

10 BALLARD SPAHR

11 1909 K Street, NW

12 Washington, DC 20006-1157

13

14 FOR KENNECOTT UTAH COPPER AND TESORO REFINING
15 AND MARKETING:

16 WILLIAM J. EVANS, ESQ.,

17 PARSONS, BEHLE & LATIMER

18 201 South Main Street, Suite 1800

19 Salt Lake City, Utah 84111

20

21 FOR SUNEDISON:

22 GARY A. DODGE, ESQ.,

23 HATCH, JAMES & DODGE

24 10 West Broadway, Suite 400

25 Salt Lake City, Utah 84101

	INDEX	
1		
2	WITNESS	Page
3	GREG DUVALL	
4	EXAMINATION	19
5	BY-MS.HOGLE	
6	EXAMINATION	27
7	BY-MS.SCHMID	
8	EXAMINATION	32
9	BY-MS.HAYES	
10	EXAMINATION	39
11	BY-MR.DODGE	
12	EXAMINATION	78
13	BY-MR.SIMON	
14	EXAMINATION	106
15	BY-MR.EVANS	
16	EXAMINATION	120
17	BY-THE HEARING OFFICER	
18	EXAMINATION	128
19	BY-CHAIRMAN ALLEN	
20	PAUL H. CLEMENTS	
21	EXAMINATION	130
22	BY-MS.HOGLE	
23	EXAMINATION	141
24	BY-MS.HAYES	
25	EXAMINATION	145

1	BY-MR.SIMON	
2	EXAMINATION	162
3	BY-MR.EVANS	
4	ABDINASIR ABDULLE	
5	EXAMINATION	202
6	BY-MS.SCHMID	
7	EXAMINATION	210
8	BY-MR.EVANS	
9	EXAMINATION	213
10	BY-THE HEARING OFFICER	
11	EXAMINATION	220
12	BY-CHAIRMAN ALLEN	
13	FURTHER EXAMINATION	223
14	BY-THE HEARING OFFICER	
15	FURTHER EXAMINATION	224
16	BY-MS.SCHMID	
17	RANDALL J. FALKENBERG	
18	EXAMINATION	226
19	BY-MR.McDONOUGH	
20	EXAMINATION	231
21	BY-THE HEARING OFFICER	
22	BÉLA VASTAG	
23	EXAMINATION	233
24	BY-MR.McDONOUGH	
25	EXAMINATION	238

1	BY-MS.HAYES	
2	EXAMINATION	241
3	BY-MR.EVANS	
4	MAURA YATES	
5	EXAMINATION	252
6	BY-MR.DODGE	
7	EXAMINATION	261
8	BY-CHAIRMAN ALLEN	
9	MAURICE BRUBAKER	
10	EXAMINATION	263
11	BY-MR.EVANS	
12	SARAH WRIGHT	
13	EXAMINATION	268
14	BY-MS.HAYES	
15	EXAMINATION	287
16	BY-MR.McDONOUGH	
17	EXAMINATION	306
18	BY-THE HEARING OFFICER	
19	EXAMINATION	309
20	BY-COMMISSIONER LaVAR	
21	LUIGI RESTA	
22	EXAMINATION	310
23	BY-MR.SIMON	
24	EXAMINATION	316
25	BY-CHAIRMAN ALLEN	

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

ROS ROCCO VRBA	
EXAMINATION	317
BY-THE HEARING OFFICER	
ROBERT MILLSAP	
EXAMINATION	322
BY-THE HEARING OFFICER	
EXAMINATION	325
BY-MR.McDONOUGH	

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

EXHIBITS

Exhibit	Page
DUP Cross Exhibit 1	33
Scatec Cross Exhibits 1 and 2	201
KUC/Tesoro Cross Exhibits 1 and 2	201
SunEdison Exhibit 1	254
KUC/Tesoro Exhibits 1, 1R, 1.1R, 1SR, and 1.1S	268
Exhibits 4.0, 4.1, 5.0, 5.1, 6.0, and 6.1	270
OCS Cross Exhibit 1	293
Scatec Exhibits 1, 2, and 2.1	312

1

Hearing Proceedings

2

June 6, 2013

3

PROCEEDINGS

4

THE HEARING OFFICER: On the record.

5

Good morning, ladies and gentlemen. I'm

6

Commissioner Clark. Chairman Allen's asked me to serve as the

7

hearing officer for this matter. We're here in Docket No.

8

12-035-100, In the Matter of the Application of Rocky Mountain

9

Power for Approval of Changes for Renewable Avoided Cost

10

Methodology for Qualifying Facilities Projects Larger Than Three

11

Megawatts.

12

This is the time and place duly noticed for this

13

hearing. And at the outset, I want to mention that the

14

Commission has recently noticed a public witness hearing in this

15

matter scheduled for June 13th, beginning at noon in this room,

16

Room 403 of the Heber Wells Building. I propose first to have

17

counsel enter their appearances, and then I have a few

18

preliminary matters to address concerning your witnesses,

19

confidential material that--and whether or not that will be part of

20

our proceeding. And so let's begin with the appearances. We'll

21

also address any other preliminary matters parties have or

22

parties would like to raise. Let's begin with appearances, and

23

we'll start with the applicant.

24

MS. HOGLE: Good morning, Chairman,

25

Commissioner, parties. My name is Yvonne Hogle on behalf of

1 Rocky Mountain Power. And with me here today are Mr. Greg
2 Duvall and Mr. Paul Clements in support of the Company's
3 application.

4 THE HEARING OFFICER: Thank you.

5 MS. SCHMID: Good morning. Patricia E. Schmid
6 with the Attorney General's Office representing the Division of
7 Public Utilities. And with me as the Division's witness is Dr.
8 Abdinasir Abdulle.

9 MR. McDONOUGH: Good morning. Kevin
10 McDonough, from the Utah Attorney General's Office. I'm
11 representing the Office of Consumer Services. With me this
12 morning is Mr. Béla Vastag. And appearing via telephone will be
13 another witness, Mr. Randall Falkenberg.

14 THE HEARING OFFICER: Before we leave--that
15 witness, is he going to join us prior to his testimony or do you
16 know? We just want to logistically understand how to
17 accommodate his participation.

18 MS. BECK: He's confirmed that he's listening to it
19 streaming. And--and Mr. Widerburg suggested we call him for
20 his appearance, and that he listen to it streaming for that.

21 THE HEARING OFFICER: Thank you.

22 MS. BECK: Michele Beck.

23 THE HEARING OFFICER: Thank you, Ms. Beck.

24 For the record, I'll repeat what Ms. Beck has
25 provided. Mr. Falkenberg is participating via streaming and will

1 call in shortly before his participation as a witness. We--I believe
2 we were going to call him if that's possible. All right. We--
3 we initiate the phone call to him?

4 Mr. Widerburg, I'm going rely on you to make sure
5 whatever needs to happen happens so that Mr. Falkenberg's
6 available at the appropriate time. Thank you.

7 Thank you, Mr. McDonough.

8 MS. HAYES: Good morning, Commissioners.
9 Sophie Hayes on behalf of Utah Clean Energy. And with me, as
10 Utah Clean Energy's witness, is Ms. Sarah Wright.

11 MR. DODGE: Good morning, Commissioner. Gary
12 Dodge. I've entered an appearance in this docket on behalf of
13 Wasatch Wind. Wasatch Wind does not intend to participate
14 actively in this hearing. This morning I'd like to enter my
15 appearance on behalf of an additional client, SunEdison, LLC.
16 And on behalf of SunEdison, Maura Yates will be the witness.

17 THE HEARING OFFICER: Thank you.

18 MR. SIMON: Good morning. My name is Dan
19 Simon with the law firm of Ballard Spahr here on behalf of Scatec
20 North America. And with me from Scatec North America is Luigi
21 Resta.

22 THE HEARING OFFICER: Thank you. Is it Mr.
23 Simon?

24 MR. SIMON: Yes, sir.

25 THE HEARING OFFICER: Thank you, I want to

1 make sure I pronounce it correctly.

2 MR. SIMON: Thank you.

3 MR. EVANS: Good morning. I'm William Evans of
4 the law firm of Parsons, Behle & Latimer here representing
5 Kennecott Utah Copper and Tesoro Refining and Marketing. And
6 we have brought with us today as our witness, Mr. Maurice
7 Brubaker.

8 THE HEARING OFFICER: Thank you.

9 Any other appearances?

10 That works out well, since there's no more space at
11 the counsel table.

12 The next item I'd like to address is the order of
13 witnesses. Typically, we would hear first from the applicant. We
14 propose, then, to hear from the Division, then the Office, and
15 beyond that, are there any witness availability considerations
16 that we need to take into account?

17 MR. DODGE: Mr. Commissioner?

18 THE HEARING OFFICER: Yes.

19 MR. DODGE: On behalf of SunEdison, Maura Yates
20 has a commitment in another commission proceeding tomorrow
21 and would like to be on the stand sometime today. It doesn't
22 really matter when today, but I don't know if we'll get to her in
23 the normal course. If not, we'd request that she be moved up.

24 MR. EVANS: We have the same situation with Mr.
25 Brubaker, but I understand that there is very little, if any, cross

1 for him, so that he could slide in just about any time and we
2 could take care of him quickly. But we would like to get him on
3 and off today, if that's possible.

4 THE HEARING OFFICER: Thank you. Any other
5 matters of that type?

6 Would it be reasonable then to simply, until our
7 schedule dictates otherwise, at least, follow the order that the
8 appearances were entered into in terms of order of presentation
9 and--and order of cross-examination?

10 Any objection to that? Then that's the process we'll
11 follow. Does any party anticipate producing or needing to refer
12 specifically to confidential information during either the summary
13 of their witnesses' testimony if one is to be offered, or
14 cross-examination? Okay. Thank you.

15 Then a note as to our schedule. We've reserved
16 two days for this hearing. I want to begin by reassuring each
17 participant that each commissioner's thoroughly read the
18 testimony. We recognize that there's a certain level of repetition
19 in the positions that are being presented. It's our hope to
20 conclude today. Perhaps it's your hope also. If we--if we need to
21 go a bit longer than typical today, we would propose to do that.
22 If we need to carry over to tomorrow, the Commission only has
23 between 8:00 and 10:00 tomorrow to--to continue the hearing.
24 And so I ask that you bear that in mind as you--as you consider
25 your--your cross-examination. If it were absolutely necessary,

1 we could, of course, continue to another day beyond tomorrow,
2 so we certainly want to hear all of the relevant positions,
3 information, testimony, receive all of the relevant exhibits. But
4 those are our near-term time constraints, and we wanted you to
5 be aware of those as we begin. Any questions about that? Are
6 there any other preliminary matters that parties have for the
7 Commission before we begin to hear from witnesses?

8 MS. HOGLE: Yes, Commissioner. Thank you.
9 Rocky Mountain Power would like the opportunity to file a
10 post-hearing brief. We would suggest that it would be
11 simultaneous briefs, one round, limited to however many pages
12 you deem appropriate or reasonable. The reason for this is
13 because you are being asked to consider approving changes to
14 the avoided cost methodology. As a result of that, a lot of
15 parties have filed different and supported different
16 methodologies. In the middle of the proceeding some parties
17 have switched their support for other studies. There have been
18 parties who have filed their direct case in rebuttal and some
19 parties filing new studies to support their original and second
20 positions and surrebuttal. Anyway, it seems that it would be for
21 the benefit of the Commission and everybody to kind of wrap it
22 all up and have a little bit more clarity on the issues. And then I
23 would also note that in 2003, when we were considering similar,
24 if not the same issues, it took parties and the Commission a
25 couple of years or more, several workshops to come up with the

1 approved methodology, and so it would not seem unreasonable
2 to add maybe a couple of weeks for the briefing under those
3 circumstances. Thank you.

4 THE HEARING OFFICER: Any responses to the
5 Company's proposal?

6 MS. SCHMID: The Division does. The Division
7 believes that limited briefing may be appropriate and if so, would
8 suggest that it be limited to legal issues and ask the Commission
9 to specify which legal issues it would be briefed--
10 would like briefed.

11 THE HEARING OFFICER: Others?

12 MR. McDONOUGH: Commissioner, it's the Office's
13 position that briefing probably is not necessary. I think that the
14 Commission has the expertise to process the three rounds of
15 testimony that have been tendered together with this hearing
16 however, in the event the Commission deems it appropriate to
17 have briefing, then I would join in the position of the Division,
18 that the briefing be very brief and limited in scope. Thank you.

19 THE HEARING OFFICER: Others?

20 MR. DODGE: SunEdison would support brief
21 briefing. As a lawyer, I guess I tend to think either closing
22 arguments or short briefs are appropriate so that the party can
23 pull together their position in a way that makes it maybe more
24 understandable. We tend, in this Commission, not to have
25 opening or closing. And I think in a complex case when we don't

1 have those, a short brief is appropriate.

2 MR. SIMON: This is Dan Simon for Scatec. The
3 main point I would like to make is, time is of the essence for us
4 in terms of the outcome of this proceeding and the potential
5 implications for my client's project, the large-scale solar project
6 in Iron County, Utah. They have been working on for a long time
7 now and are well on their way to being able to build a terrific
8 project, but they do not have a PPA yet. And my main concern is
9 in terms of how long it would take for the Commission to
10 ultimately reach a decision on these issues that could impact on
11 whether or not that project is possible. So to the extent there is
12 briefing, if it's short and it's something that can assist the
13 Commission in reaching a decision fairly quickly.

14 THE HEARING OFFICER: Any other parties?

15 MR. EVANS: I guess I should weigh in, Mr.
16 Commissioner. I agree with Mr. Simon that time is of the
17 essence here. For my clients we are entering a process where
18 we begin negotiating the QF contracts for 2014. There is a time
19 limit to getting that done so we can bring them in to the
20 Commission for approval. And this should be done before then
21 so that we know the avoided costs we're going to apply to those
22 contracts.

23 But I do think that on the REC issue at least a lot of
24 testimony that's on the record now is in the nature of legal
25 testimony, if I can call it that, or testimony going to policy or the

1 application of the law to this issue. So if at the end of the day
2 the Commission thinks it would be helpful, we think--we'd be
3 willing to brief the issues there. Otherwise, just--it remains short
4 time period and short briefs.

5 THE HEARING OFFICER: Thank you. We'll provide
6 a ruling later this morning on that proposal.

7 Any other preliminary matters?

8 Ms. Hogle?

9 MS. HOGLE: Thank you, Commissioner Clark. At
10 this time Rocky Mountain Power calls Mr. Greg Duvall as its first
11 witness.

12 THE HEARING OFFICER: Please raise your right
13 hand, Mr. Duvall. Do you solemnly swear that the testimony
14 you're about to give shall be the truth, the whole truth, and
15 nothing but the truth?

16 THE WITNESS: I do.

17 THE HEARING OFFICER: Please be seated.

18 THE WITNESS: Thank you.

19 GREG DUVALL, being first duly sworn, was
20 examined and testified as follows:

21 EXAMINATION

22 BY-MS.HOGLE:

23 Q. Good morning, Mr. Duvall.

24 A. Good morning.

25 Q. Can you please state your name and your position

1 with the Company for the record?

2 A. Yeah, my name is Greg Duvall. I'm the director of
3 net power costs for PacifiCorp.

4 Q. And in that capacity did you file a direct rebuttal and
5 surrebuttal testimony with exhibits?

6 A. I did.

7 Q. And at this time, do you have any changes that you
8 would like to make to any of those pieces of testimony?

9 A. I do. On page 13 of my direct testimony is the first
10 change. The question and answer beginning on line 265
11 continuing through 269 is no longer true. It was true when I
12 wrote the testimony, but between then and now, the State of
13 Washington passed a law that makes that Q and A untrue, so I
14 would simply delete that Q and A.

15 And the only other thing changes I have are in my
16 rebuttal testimony. Page 1, line 7, the "Mr. Abdinasir" should be
17 "Dr. Abdinasir." The same change on page 14, line 276: "Mr."
18 should be "Dr." And on page 22, line 436, again, where "Mr."
19 should be "Dr."

20 Those are all my changes.

21 Q. Thank you. And so other than those changes, if I
22 were to ask you the questions in your testimony here again
23 today, would your answers be the same?

24 A. They would.

25 MS. HOGLE: At this point, I would like to enter into

1 the record Mr. Duvall's direct, rebuttal, surrebuttal testimony with
2 attached exhibits as edited this morning.

3 THE HEARING OFFICER: Any objections?

4 They are received.

5 BY MS. HOGLE:

6 Q. Mr. Duvall, do you have a summary you would like
7 to give the commissioners today?

8 A. I do.

9 Good morning, Chairman Allen, Commissioner
10 Clark, and Commissioner LeVar. I filed three pieces of testimony
11 in this docket: direct testimony, rebuttal testimony, and
12 surrebuttal testimony. And I'll give you a brief summary just by
13 the issues that were raised. The first issue was whether the
14 market proxy method continues to produce avoided costs that are
15 in the public interest, and the other issues have to do with the
16 proper implementation of the Proxy/PDDRR method, which I will
17 address the integration costs for solar resources, the adders for
18 fuel risk greenhouse gases and climate change, the capacity
19 contribution, which is the major subject of my surrebuttal
20 testimony, and the timing of new capacity additions.

21 With regard to--as--I guess as I note in my
22 testimony, the guiding principle underlying the development of
23 the avoided cost is customer indifference, and that any payments
24 made to QFs are ultimately borne by retail customers.

25 With regard to the continuation of the market proxy

1 method, the Company believes it no longer aligns with the
2 Company's IRP and therefore does not reflect avoided costs.
3 The 2013 IRP shows a--the next deferrable wind plant in 2024.
4 The market proxy assumes the next deferrable wind plant is the
5 first year of a QF contract. Because of this timing mismatch, the
6 market proxy method will not result in a reasonable payment of
7 avoided costs, as I show in Table 1 on page 11 of my direct
8 testimony.

9 With regard to the Proxy/PDDRR method, the solar
10 integration cost, the Company has proposed that we use the wind
11 integration cost we don't have a solar integration cost study that
12 we've done. We think this is reasonable because solar is
13 intermittent. It generally needs integration support during the
14 higher cost hours, the peak load hours it had sharp swings in
15 cloud cover. And the timing of the solar is not lined up with the
16 timing and changes of loads, and therefore, the Company incurs
17 additional ramping requirements from its dispatchable resources.

18 We think what we propose is reasonable, and we
19 think what--the value of zero, which was proposed by UCE, Utah
20 Clean Energy, is unreasonable because intermittent resources
21 certainly needs support by dispatchable resources. So the value
22 should be nonzero.

23 With regard to adders for fuel risk, greenhouse
24 gases and climate change, we believe that they're not known and
25 measurable at this time. And including additional cost for those

1 risks would unnecessarily shift costs from QFs to retail
2 customers. And until something is more definitively known about
3 these risks, we suggest they not be included.

4 With regard to the capacity contribution, the
5 intermittent QFs do not generate power at 100 percent of their
6 nameplate capacity at the time of system peak on a reliable
7 basis. This is important because the resources that they are
8 deferring, which are what we call front office transactions in the
9 sufficiency period of near term or the combined cycle combustion
10 turbine, or CCCT, in the long term provide a--can deliver 100
11 percent of their nameplate capacity within 90 percent confidence
12 level which is the comparative basis that we look at, at time of
13 system peak.

14 So we performed the study to look at the ability of
15 the renewable resources to deliver dispatchable power at the
16 time of system peak. So we looked at a 90 percent confidence
17 level with the highest 100 hours of peak load during the summer
18 over a five-year period, and determined that a wind plant could
19 deliver, on a firm basis, 4.1 percent of its nameplate capacity.
20 The solar resource that's energy- oriented could deliver 11 1/2
21 percent of its nameplate capacity. And a peak-oriented solar
22 plant could deliver 25.9 percent of its nameplate capacity.

23 And so the idea here is that for QF pricing,
24 renewable QF should get paid for what it can defer. And these
25 are the numbers that the Company has put forth as the amount

1 of capacity that a renewable resource can defer for a deferrable
2 resource.

3 So other parties have proposed alternative methods,
4 which I address. Those methods have different acronyms. One
5 is the Effective Load Carrying Capability, or ELCC. And then
6 there's also the capacity factor allocation method. Sometimes
7 it's referred to as the CFAM or the CF, but in my mind, that's the
8 same method. And it's a--basically a shortcut to the ELCC.
9 ELCC requires stochastic analysis. It's a very involved, iterative
10 process. There are other methods, especially the CF method,
11 that are-- basically have been developed to simplify the
12 mathematics and make the calculation quicker.

13 And--so what I point out in my testimony is that the
14 capacity factor method or the ELCC is basically energy-based.
15 And when you look at the confidence level that comes out of
16 those, the studies that were produced by, for example, Mr.
17 Falkenberg where he took--he took the same 100 hours, but he
18 took the average of them instead of the 90th percentile, and what
19 he came up with was a--ended up that the confidence level
20 dropped from 90 percent to 41 percent based on the calculations
21 done by Mr. Falkenberg. That has the effect of reducing the
22 reliability of the system to meet system peak load.

23 If the thermal--if the Company's thermal resources,
24 for example, were available only 41 percent of the time to meet
25 peak load, the Company would be unable to provide service to

1 the customers 59 percent of the time. So the reliability is
2 significantly affected by adopting an ELCC or CF method. And
3 it's inappropriate to inflate payments to renewable QFs when the
4 result is reduction in system reliability. So the alternative to the
5 loss of reliability would be to add additional resources to bring
6 the reliability back up to the levels in the IRP. This would result
7 in additional cost to customers so they would end up paying
8 twice for the same capacity.

9 And finally, on the timing of the CCCT capacity
10 deferral, this is really an issue of Utah Clean Energy, Ms. Wright,
11 who insists that the QFs get paid for the deferral of the CCCT,
12 combined cycle combustion turbine, beginning with first year of
13 the contract. The Company does not avoid a combined cycle
14 combustion turbine until 2024, in the 2013 IRP, and therefore,
15 payments prior to that would not be based on costs that the
16 Company could avoid.

17 So thank you very much. That concludes my
18 summary.

19 MS. HOGLE: Thank you, Mr. Duvall. Thank you,
20 Mr. Duvall. He is available for cross-examination or questions
21 from the bench. Thank you.

22 THE HEARING OFFICER: Ms. Schmid.

23 MS. SCHMID: Thank you.

24 EXAMINATION

25 BY-MS.SCHMID:

1 Q. Good morning, Mr. Duvall.

2 A. Good morning, Ms. Schmid.

3 Q. The Division has a few questions for you. Could
4 you please turn to page 9 of your surrebuttal testimony?

5 A. I'm there.

6 Q. Thank you. Do you see Figure 1 there, which
7 should be the graph near the top of the page?

8 A. We're having a page number problem. That's on
9 page 11 of mine, but I do have Figure 1.

10 Q. But you're looking at what's identified as Figure 1,
11 wind and thermal CCCT, probability of exceeding peak load
12 hours?

13 A. I was in my rebuttal testimony. No wonder I had the
14 wrong page. Got it now.

15 Q. Okay. So we are on both on the same graph?

16 A. We are.

17 Q. Looking at this graph, do you see the box that
18 contains the word, "DPU Wind Contribution, 12 percent;
19 Confidence Level, 63 percent"?

20 A. I do.

21 Q. Did you use a formula to calculate the confidence
22 level you set forth in this box?

23 A. Well, the--it was taken off the curve that's shown--

24 Q. Okay.

25 A. --there.

1 Q. Thank you.

2 And I have--if I may approach the witness?

3 THE HEARING OFFICER: Yes.

4 BY MS. SCHMID:

5 Q. Thank you. I'm distributing what I would ask to be
6 marked for identification as DPU Cross Exhibit 1. Can you take
7 a moment, Mr. Duvall, and look at this? This is a hypothetical
8 that the Division created. And I have some questions about our
9 hypothetical--

10 A. Okay.

11 Q. --okay? So if you look at the blue line, which is
12 pretty much a line that runs parallel to the horizontal axis and is
13 just below the 5 percent mark, do you see that it runs over and
14 then when it is close to the green line, which is our 90th
15 percentile marker, it dips down?

16 A. Yes, I do.

17 Q. Okay. If we look at the red line, which is Example
18 2, and you see it starts just above 30 percent, runs horizontally
19 along until just before the 90 percentile line, and then dips down
20 sharply--do you see that?

21 A. I do.

22 Q. Looking at these two examples, can you see--okay.
23 So Example 2 is available more than 30 percent of the time; is
24 that correct, until it drops down?

25 A. That's correct.

1 Q. And then Example 1 is available just under 5
2 percent until it drops down; is that correct?

3 A. Well, the--yeah, I guess that's correct.

4 Q. Do you agree that it's not reasonable to award the
5 same capacity value for the contribution of Example 1 and
6 Example 2?

7 A. I guess I'm--I'm--I'm not sure what the examples
8 are, so I'm not quite sure how to answer that question at this
9 point.

10 Q. Okay. Let me rephrase and see if I can ask it more
11 clearly. Looking at Example 1 and comparing it to Example 2, is
12 there more--we'll just call it availability with Example 2 than there
13 is with Example 1? As Example 2 is available more than 30
14 percent and Example 1 is just below 5 percent?

15 A. So I guess--I'm assuming the y-axis is the same as
16 Figure 1 in my testimony--

17 Q. Yes.

18 A. --the available capacity?

19 Q. Yes.

20 A. So--yeah, I would agree with your--your
21 characterization.

22 Q. So just by looking at the chart, do you agree that it
23 appears that Example 2 should be awarded a greater contribution
24 value than Example 1?

25 A. I guess not necessarily. I mean, these are--these

1 are akin to the Figure 1 in my testimony. And I guess
2 the--what's missing here is on Figure 1 and--or Example 1,
3 Example 2, those two lines is--is what confidence level is that
4 those will actually occur.

5 Q. But a confidence level is something that you
6 calculate if you use confidence level in the manner that is used
7 as a term of art in the statistics world; isn't it? Don't you use a
8 formula to calculate a confidence level?

9 A. Yeah, it's based on--like I said, it's based on the
10 curve. So the--I guess what I'm also noticing is the x-axis in
11 your example are numbers which are unlabeled, and the x-axis in
12 my testimony are percentages, so I'm not quite sure how they
13 relate.

14 Q. I apologize. I should have said the x-axis with the
15 numbers refers to the 500 data points that the Company used in
16 its exhibit in this example when it ran the top hundred hours for
17 the five years.

18 A. Okay.

19 MS. SCHMID: Thank you. All my questions.

20 THE HEARING OFFICER: Mr. McDonough.

21 MR. McDONOUGH: The Office has no questions.

22 THE HEARING OFFICER: Thank you.

23 MS. HAYES: Thank you.

24 EXAMINATION

25 BY-MS.HAYES:

1 Q. Good morning, Mr. Duvall.

2 A. Good morning.

3 Q. I'd like to refer to an exhibit that Scatec filed with its
4 surrebuttal testimony. Do you have that with you?

5 MS. SCHMID: Oh, pardon me.

6 THE WITNESS: I don't believe I do.

7 MS. HAYES: It's--

8 THE WITNESS: It's with the surrebuttal? Is that
9 what you said?

10 MS. HAYES: Yeah, it's the first page of Exhibit A to
11 their surrebuttal testimony.

12 THE HEARING OFFICER: While you're looking,
13 let's go off the record.

14 (A discussion was held off the record.)

15 THE HEARING OFFICER: Let's be on the record.

16 BY MS. HAYES:

17 Q. I'm--it's a page of the IRP that I'm looking at and I
18 have a--you have it?

19 A. I've got it. Thank you.

20 THE HEARING OFFICER: Just before we begin
21 your question, then, Ms. Hayes, Ms. Schmid, you had a matter
22 that you wanted to address?

23 MS. SCHMID: I do. Thank you. The Division
24 moves for the admission of DPU Cross Exhibit No. 1.

25 THE HEARING OFFICER: Any objection?

1 Received. DUP Cross Exhibit 1 was admitted into
2 evidence

3 THE HEARING OFFICER: Thank you, Ms. Hayes.

4 BY MS. HAYES:

5 Q. So looking at this table, it shows that without--this
6 is--this is a table from the IRP, Table 5.12, system capacity
7 loads and resources without resource additions; is that correct?

8 A. Yeah, I guess I'm--I'm looking at a Table 5.12. The
9 exhibit--I don't seem to have pages that reflect the page of the
10 exhibit, but page 99--

11 Q. Of--

12 A. --of the 2013 IRP.

13 Q. That is what I'm looking at.

14 A. Yeah.

15 Q. Thank you. This table shows, without additional
16 resources, the Company is capacity deficient through 2022,
17 which is the last year shown on this table; is that correct?

18 A. That's correct.

19 Q. All right. Now, I'm--I'd like to lead you to your
20 rebuttal testimony, at line 210. And I apologize. I just have the
21 line number written down, the--not the page number.

22 A. So you said my rebuttal?

23 Q. Yeah. It's page 10 of your rebuttal testimony
24 starting at line 210.

25 A. Okay. I got that.

1 Q. You say that the Company cannot defer the capacity
2 cost of the new combined cycle combustion turbine immediately;
3 is that correct?

4 A. That is correct.

5 Q. Is it true that the Company can defer investments in
6 physical capacity resources by entering into front office
7 transactions?

8 A. No, that's not correct. Front office transactions are
9 market purchases. There's no physical asset to defer.

10 Q. Now, if you could go to line 288 of your rebuttal
11 testimony.

12 A. I've got it. Thanks.

13 Q. In response to Ms. Wright's argument that the
14 penetration of solar resources on PacifiCorp's system is too
15 small to incur integration costs, you say that integration costs
16 are proportional to the output of solar facilities such that a small
17 facility will incur less in integration cost than a larger facility. Is
18 that a correct representation of your testimony?

19 A. Yeah, it would be less on a total-dollar basis
20 because it's small, but it would be the same dollar-per-
21 megawatt-hour sort of charge.

22 Q. Is it true that higher penetrations of solar have the
23 potential to increase system integration costs?

24 A. I would say that's generally true. That's what we
25 found with regard to wind resources--the wind resource studies

1 we've done.

2 Q. Is it also true that--or is the inverse also true, that
3 low penetrations of solar impose fewer integration costs----

4 A. On a dollar-per-megawatt basis, I would agree with
5 that.

6 Q. Is it true that the phrase, "known and measurable" is
7 not in Section 210 of PURPA?

8 A. I don't know.

9 Q. All right. If I can take you--still in your rebuttal
10 testimony--to lines 379 to 380--

11 A. I'm there.

12 Q. --you say that from the Company's perspective, risk
13 characteristics of renewable QF are no different than the risk
14 characteristics of a nonrenewable QF; is that correct?

15 A. That's correct.

16 Q. Do nonrenewable QFs typically enter into
17 20-plus-year contracts?

18 A. It--they have.

19 Q. Have--have any nonrenewable QFs entered into
20 20-plus-year contracts in recent years while gas prices have
21 been low?

22 A. They have, but not in Utah.

23 Q. And then going back to your direct testimony, I--you
24 don't need to go there if you don't want to. I'm not necessarily
25 asking specifically about it except for mention that you said that

1 the capacity contribution of renewables used nor avoided costs
2 should be consistent with the Company's IRP. Is that your
3 position?

4 A. Yes, that's my position.

5 Q. If you'll go with me to your surrebuttal at lines 37 to
6 39--that's on page 2--

7 A. I've got it.

8 Q. --you say that the Company's ability to meet system
9 coincident peak load is the measure of capacity used by the
10 integrated resource plan; is that correct?

11 A. Which line are you looking at there?

12 Q. So I'm not quoting you directly. It's lines 37 to 39.
13 You say: The Company's ability to meet its system peak load,
14 which is the measure of capacity used by the integrated resource
15 plan.

16 A. Are you in my surrebuttal or rebuttal?

17 Q. Surrebuttal.

18 A. So in surrebuttal.

19 Q. Line 37, page 2.

20 A. I show--in my surrebuttal testimony I show that the
21 average energy approach--

22 THE REPORTER: Sorry. Can you repeat that?

23 THE WITNESS: Yes. In my surrebuttal testimony, I
24 show that the average energy approach degrades the Company's
25 ability to meet its system coincident peak, which is the measure

1 of capacity used by the integrated resource plan.

2 BY MS. HAYES:

3 Q. So is it true, then, that the Company's ability to
4 meet its system coincident peak is the measure of capacity used
5 in the integrated resource plan?

6 A. It is.

7 Q. All right. Is the Company's 100 high load hour
8 capacity contribution method what was used in the 2013 IRP?

9 A. It is.

10 Q. How long has the Company used the 100 high load
11 hour method to measure the Company's ability to meet coincident
12 load in the IRP?

13 A. This is the first time in the IRP. We developed this
14 method about--probably a little over a year ago as we were
15 putting forth our avoided cost proposal in Idaho, the Idaho
16 commission that adopted our method.

17 Q. So are you asking the Commission to approve in
18 this docket a method that has not been reviewed or
19 acknowledged by the Commission in the IRP docket?

20 A. Yes, but I presented all of the evidence that
21 supports the method in this docket.

22 MS. HAYES: Thank you. I have no further
23 questions.

24 MR. DODGE: Great.

25 MR. SIMON: Thank you.

1 MR. DODGE: Oh, I'm sorry. You go ahead if you
2 want.

3 MR. SIMON: No, that's fine.

4 EXAMINATION

5 BY-MR.DODGE:

6 Q. Mr. Duvall, good morning.

7 A. Good morning.

8 Q. I'm going to follow up briefly on that last set of
9 questions. I'd like to understand--when you sat through all those
10 IRP meetings, I still don't understand what you mean by "the
11 Company used the 100-hour method in the IRP." You used it for
12 what purpose?

13 A. It's used in the 2013 IRP to determine the amount of
14 capacity that's available from the solar and wind resources
15 for--for basically purposes of planning. And the table that was in
16 the exhibit to the Scatec folder that Ms. Hayes took me to that
17 was the load resource balance-- it's that table that's at time of
18 system peak that we would then say that--you know, how much
19 wind--how much does wind contribute to time of system peak,
20 how much does solar contribute to the time of system peak, and
21 those are the values that we would use in that table. The values
22 that are also used in the system optimizer model, which is the
23 model that's used in the IRP to create resource expansion
24 planes.

25 Q. So to be clear, when you use value, you don't mean

1 dollars, you're talking about the amount of capacity contribution
2 at peak that triggers the decision whether more capacity
3 resources are needed; is that correct?

4 A. That's correct. Value is a megawatt value.

5 Q. There's no attempt in the IRP to assign a dollar
6 value to the contribution of any particular resource. This is a
7 system planning peak planning purpose that you're referring to?

8 A. That's correct.

9 Q. You don't dispute that--that there is value supplied
10 by renewable resources by providing capacity during hours other
11 than the top 100, do you?

12 A. I do not.

13 Q. Let's talk for a minute about your--your
14 characterization of the various modeling--or methods for
15 calculating capacity value. In a general level, it's accurate, is it
16 not, that you characterize the methodologies suggested by all the
17 other parties as energy-based and yours is capacity-based. Is
18 that basically true?

19 A. That's correct.

20 Q. If you'll turn to page 9 of your surrebuttal, this is the
21 graph that Ms. Hayes asked you about.

22 A. I'm there.

23 Q. Thank you. Ms. Schmid. Sorry.

24 A. Yeah.

25 Q. The--the y-axis on this graph is available capacity;

1 is that right?

2 A. That's correct.

3 Q. And this shows, in effect, a capacity factor value,
4 correct?

5 A. It's the--it's--at a given exceedance level, it's the
6 amount of capacity that's available on a firm basis.

7 Q. Exactly. Another way to state it is that you're
8 calculating the capacity factor achieved or exceeded 90 percent
9 of the top 100 summer modalities, right?

10 A. That's correct.

11 Q. Now, a capacity factor evaluation is inherently an
12 energy-based calculation, is it not?

13 A. Well, if you looked at the capacity factor in one
14 hour, then capacity that--the energy that's delivered in that hour
15 is the same as the capacity that's delivered in that hour. So as
16 you--as you spread it out over more hours, then it becomes more
17 of an energy-based proposal.

18 Q. And you choose to characterize yours at 100 hours
19 as capacity-based but something more than that is energy-
20 based, but really you're drawing the line just in a different place,
21 are you not?

22 A. No. The way we calculate is to look at the
23 exceedance level. To say that, you know, at a--we get a 90
24 percent confidence level--that out of those 100 hours, 90 of them
25 produce at least 4.1 percent capacity value at the time of system

1 peak.

2 The other approaches, for example, Mr. Falkenberg
3 just took the 100 hours each year, the total of 500 hours and just
4 took the average of them. And--which led to a--you know, a
5 confidence level of 41 percent as opposed to 90 percent. So he
6 made no--no effort to look at the--you know, how often you
7 could--or how much you could count on the time of system peak.
8 It was just averaged over the 500 hours.

9 Q. You could have chosen to look at one hour of
10 system peak, the one system peak hour the year and see the
11 probability at the level, correct?

12 A. Yes, we could. We actually--we thought about that
13 but that would produce fairly unstable results. So we broadened
14 that to a hundred hours. We could have picked something
15 different, but we chose 100 hours.

16 Q. A hundred hours is a few days, right?

17 A. It is.

18 Q. You could have chosen 500 hours and still used an
19 exceedance approach if you had chosen to do that, correct?

20 A. We could have.

21 Q. Or 1,000 hours? In other words, you chose 100
22 hours but it isn't--it's not 100 hours that makes it magical
23 transformation into a capacity-based analysis, is it?

24 A. That's correct.

25 Q. And for example, one could use 100 hours in one of

1 the other methods as well and choose the same hours you were
2 looking at, but it's a different approach to looking at valuation is
3 that a correct statement?

4 A. That's correct. And that's both what Dr. Abdinasir
5 and Mr. Falkenberg did.

6 Q. And if you used, for example, 100 hours in the
7 CFAM method, would you then characterize that as
8 capacity-based?

9 A. No, I would not.

10 Q. And that's because unless they use your 90 percent
11 exceedance approach, you don't think it's capacity-based?

12 A. No, the CFAM approach does not look at how much
13 capacity is available at the time of system peak, which is really
14 what's needed to be able to avoid a combined cycle combustion
15 turbine or a front office transaction.

16 Q. And that's if you're giving value only to that one
17 element and not to the other elements you acknowledge was
18 there, in other words, that there is value in providing a reliable
19 energy in other peak hours outside the top hundred, but that
20 value's not recognized in your model, is it?

21 A. It is recognized in the Proxy/PDDRR model. It's not
22 recognized in the capacity contribution and the capacity deferral.
23 It's recognized in the--the differential GRID studies which look at
24 every hour of the year and assign a value, avoiding cost value,
25 to the QF for every hour of the year.

1 Q. An energy value?

2 A. That's correct.

3 Q. But not the reliable contribution to peak load hours
4 outside the 100 hours?

5 A. Yeah, that's correct, because the capacity
6 contribution--the Company looks at--what you need to avoid a
7 combined cycle combustion turbine is to be able to deliver it at
8 the time of system peak.

9 Q. But you're assuming that all we're looking at in this
10 QF evaluation is the ability to defer a combined cycle plant,
11 where in reality what we're looking at is what costs in total does
12 the utility avoid, right? We're trying to say what is the value of
13 this stream of capacity and energy that this QF project is
14 bringing to the table?

15 A. That's certainly what we're looking at, and that's
16 what the Proxy/PDDRR--RR method is actually designed to do
17 and actually does.

18 Q. And there are many other methods that most utilities
19 use to reach the same conclusion. In other words, your method
20 is not the industry standard approach for assigning the capacity
21 value to a renewable resource, is it?

22 A. So I've noticed that folks bring up the industry
23 standard, but what we're trying to do here is determine a price
24 for a QF on PacifiCorp's system. I don't know what the reference
25 is to industry standard those folks have made, but we are trying

1 to identify how much a QF resource can defer on PacifiCorp's
2 system. And I believe that the method we provided does that
3 very well.

4 Q. Mr. Duvall, we've not been able to identify another
5 utility in the country that uses your approach. Are you aware of
6 one?

7 A. I didn't look around, but I also am not aware of any
8 other utility that uses the methods that have been proposed by
9 the other parties here for determining the capacity payment to
10 qualify facilities.

11 Q. You read some of the studies that were presented
12 by NREL and others. You don't believe anyone uses those
13 methodologies?

14 A. The studies are what they are, but none of the
15 studies addressed the issue of how much capacity payment do
16 you give to a QF.

17 Q. And in fact, in Utah, we never used your approach
18 before either. This is a new approach. This is a proposal to
19 change the existing approach to determine the capacity value of
20 a--of a QF resource, correct?

21 A. Yeah, we've not used the Company's approach,
22 we've not used the ELCC and we have not used a capacity factor
23 for determining. These are all new approaches.

24 Q. Would it be appropriate to use your P-90 approach
25 to determine the capacity value for a CCCT.

1 A. Well, I think--I suppose it would be. I mean I think
2 that's what shows in the Figure 1 that we've been brought to in
3 my rebuttal testimony on page 9 that the Company's CCCTs the
4 Currant Creek, Lake Side, Chehalis, and Hermiston are all
5 included in that chart. And each one of those show over on the
6 right-hand side they're up to 100 percent capacity contribution by
7 the time they cross over the 90 percent confidence level line.

8 Q. So you'd agree the Company ought to recover the
9 percentage of the capacity costs of its CCCTs based on those
10 numbers? If it's a 95 percent, they ought to recover 95 percent
11 of the capacity value in rate cases?

12 A. No, I don't agree with that. This is all about setting
13 capacity prices for avoided costs.

14 Q. But not for the Company's assets?

15 MS. HOGLE: Objection. Relevance.

16 MR. DODGE: I think it's relevant. He's trying to
17 assign a capacity approach different for other resources than for
18 his own. I think that is relevant.

19 THE HEARING OFFICER: Overruled.

20 THE WITNESS: Yeah, so this has nothing to do
21 with how much we recover in rate cases, it's just--it's not related.

22 BY MR. DODGE:

23 Q. Mr. Duvall, you--did the Company perform a similar
24 evaluation using your approach, but with a P-70 or a P-50
25 approach as opposed to P-90?

1 A. No, we did not.

2 Q. Let's talk for a minute about your study, your
3 approach to calculating solar capacity contributions. It's an
4 accurate statement, is it
5 not--for solar, you use average energy production, which is
6 capacity factor number, across five different states and you hold
7 that constant for all five years using an NREL PVWatts
8 simulation. Is that an accurate statement?

9 A. Can you say that again?

10 Q. Is it correct that in your study, you use the average
11 solar energy production across five different states and you
12 use--and you hold that number constant for all five years using
13 NREL PVWatts simulation?

14 A. Yeah, I believe that's correct.

15 Q. And to shorten that, it's hypothetical based? It's a
16 generalized set of data, it isn't actual solar production data from
17 your system?

18 A. That's right, it's from the PVWatts data source,
19 which is an NREL data source.

20 Q. And again, five states and it's an average number
21 over five years?

22 A. That's correct.

23 Q. And then you compare that against your actual
24 system hundred--100 high-load hours; is that right?

25 A. That's correct.

1 Q. So it's actual system load versus a five-year,
2 five-state average solar production number?

3 A. Yeah that's correct.

4 Q. And the actual load varies, each of those five years,
5 correct?

6 A. That's correct.

7 Q. Do you not see any issues mismatched there by
8 using average numbers on the one hand for solar production over
9 five states over five years comparing that on an actual databases
10 each of the five years?

11 A. Well, it's really--that's the data we have. If we had
12 actual solar data, we would use that, but it's the best we could
13 do with the information that we had.

14 Q. So you do recognize there's a possible mismatch,
15 but you're just saying you don't have the data?

16 A. I'd agree with that.

17 Q. Is it a fair assumption that solar irradiance could
18 vary in a similar manner to your load? In other words, the
19 similar weather conditions that might affect your load on a given
20 peak day or near peak day might also affect the solar production
21 in that day?

22 A. Yeah, and I would--I guess I would take you to
23 UCE's Exhibit 4.1 which accompanied Ms. Wright's direct
24 testimony, page 17. The two graphs at the top of the page are
25 both for the same solar site. It's Congress, Arizona. The first

1 one is year 1999 and the second one is year 2002. And basically
2 what that illustrates is that the solar can, you know, occur--it's
3 not--it does not occur regularly. It doesn't--it doesn't necessarily
4 line up with the system peak. But it--it does, I think, support
5 what Mr. Dodge is claiming is that the actual data can be
6 different than any normalized source, but whether that's better or
7 worse, I don't know.

8 Q. But if, for example, if one were to assume that on a
9 very, very hot day, both your peak load is going to go up and the
10 solar production is going to go up, that they're somehow related,
11 your methodology doesn't account for that by taking an average
12 of five states over five years compared to the actual peak data
13 for your load. That creates an additional mismatch, does it not,
14 or it exacerbates the mismatch, does it not?

15 A. Well, I don't--I don't know that I would agree with
16 the premise that the solar production goes up on the peak days.
17 There's, you know, other factors that affect solar production,
18 including cloud cover and things like that. We just don't--I don't
19 know that your presumption is correct or incorrect.

20 Q. Well, maybe we have to go back to the presumption
21 because I asked you, do you agree that weather-related events
22 can affect both at the same time? You don't agree that cloud
23 cover also affects the temperature that day, for example?

24 A. The--the location of the loads is probably likely
25 different than the location of the solar resource, so--and my

1 understanding, as little understanding as I have about it is cloud
2 cover is fairly local. You may have cloud cover in solar resource
3 that has no effect on the loads, so I really can't conclude
4 anything from that.

5 Q. But to the extent one would assume there may be a
6 correlation between solar production on a given day and--and
7 your system load on a given peak day, your approach of using
8 average five-year, five-state solar production data and actual
9 peak load data, that would exacerbate the mismatch, would it
10 not?

11 MS. HOGLE: Objection. Asked and answered.

12 MR. DODGE: I think he said he couldn't accept my
13 premise, so I'm now asking it as a hypothetical. I don't think he
14 has answered this question.

15 MS. HOGLE: I think he's asked it three times, two
16 or three times at least.

17 MR. DODGE: Can we ask the witness if he's
18 answered it? Because I don't know, I just . . .

19 THE HEARING OFFICER: I'm going to overrule the
20 objection.

21 Mr. Duvall, would you answer the question, please?

22 THE WITNESS: Could I get--

23 THE HEARING OFFICER: Do you have it in mind?

24 THE WITNESS: Yeah, I don't have the question in
25 mind. Sorry.

1 BY MR. DODGE:

2 Q. To the extent one assumed a correlation in a
3 hypothetical--if one assumed there is a correlation or may be a
4 correlation between weather-related events such as cloud cover
5 that might affect both your system peak load on a given peak day
6 and the amount of solar production on that peak day, to the
7 extent one assumes that hypothetical, then the mismatch that
8 you have already answered that the mismatch between your
9 five-year, five-state average solar production data on the one
10 hand and your peak load actual data on the other hand, that
11 mismatch is exacerbated. Is that a correct statement?

12 A. It's--it's a correct--correct statement, I believe,
13 under the hypothetical if there is a correlation, but the question
14 was if there is a correlation or may be a correlation. If there may
15 be a correlation, I'm not sure it's correct. But if there is a
16 correlation under the hypothetical, I'd agree with your
17 conclusion.

18 Q. Mr. Duvall, you're fighting my premise, my--ignore
19 that, but fighting the hypothetical.

20 A. Thank you. In addition, along the similar lines, you
21 understand, do you not, that the maps and studies of solar
22 potential shows that Utah has a much higher--southern part of
23 Utah has a much higher solar potential--solar value, if you will,
24 than any of the other states in the PacifiCorp system or not the
25 states, but any other areas within PacifiCorp's system in the

1 other states?

2 MS. HOGLE: Mr. Duvall, answer that only if you
3 know--I mean, it seems to me that that's something that an
4 expert in solar would know, and I believe you stated that--

5 THE HEARING OFFICER: Ms.--

6 MS. HOGLE: --you needed that understanding.

7 THE HEARING OFFICER: I think we should just
8 allow the witness to answer the question, if he can.

9 BY MR. DODGE:

10 Q. Do you know?

11 THE HEARING OFFICER: I'm sure--if he can.

12 THE WITNESS: I believe that somebody has
13 provided that evidence. And I don't doubt it. But just because
14 there's a higher irradiance of solar in Utah than any other area in
15 the Company's service territory, it doesn't necessarily relate to
16 the delivery of solar at the time of system peak. It may relate to
17 the delivery of solar over time, the amount of solar. You get
18 over a number of hours, but it doesn't necessarily--you can't
19 necessarily conclude that the solar resource in Utah contributes
20 more to the peak load at time of system peak than any other
21 solar resource.

22 BY MR. DODGE:

23 Q. Mr. Duvall, I appreciate that commentary. That isn't
24 the thrust of my question, but thank you for the commentary.

25 The question is, if you used in your analysis a

1 five-state average solar production number to try and value
2 Utah's solar production, you're understating it, are you not, if
3 Utah actually has higher solar potential and a higher solar
4 irradiance level than the other states?

5 A. Well, the answer's no.

6 Q. You're not overstating it or understating the value of
7 Utah's solar?

8 A. We're not understating the value of Utah's solar as
9 contributing to the system peak, which is the primary metric that
10 is necessary to be able to defer a combined cycle combustion
11 turbine.

12 Q. Again, you keep going back to that as though that's
13 the only thing we care about here, and I think it is the only thing
14 you care about, but Mr. Duvall, you admitted there's value in the
15 other hours for reliable production of energy and capacity in
16 other hours by a renewable resource in the other peak hours you
17 have. There's way more than 100 peak hours in a year, is there
18 not?

19 A. It depends on how you define peak.

20 Q. The way you define it.

21 A. Well, the way I define it would--I've defined it in
22 many ways, but the IRP defines peak as the single hour--single
23 highest hour of load.

24 Q. Let's talk about high-load hours then. There's more
25 than 100 load hours during the summer season, is there not?

1 A. Yeah, when you say high-load hours, I presume you
2 mean heavy load hours because they're defined--

3 Q. Heavy load hours.

4 A. --in standard products.

5 Q. Let's use that: heavy load hours.

6 In your approach, it goes back to what we talked
7 about before, doesn't assign any value to the fact that a Utah
8 solar facility might be producing very valuable energy and
9 capacity at times of high load because you're only looking at the
10 hour of the 100 hours of system peak in a 90 percent probability
11 level, so you ignore that other value that is given unless you
12 contend it's somehow picked up in the GRID model which is an
13 energy-only analysis?

14 A. Well, the GRID--it is picked up in the GRID model.
15 And the GRID model assumes that you can defer firm market
16 purchases, so I'm not sure that the GRID value--we call it an
17 energy value, but it's deferring firm market purchases, as well as
18 backing down resources, but that's the only option, so . . .

19 Q. Let's explore that because you say that, and yet all
20 GRID defers is your forward price curve; is that not true? You
21 insert the forward price curve into the model ten, twenty years
22 into the future, and that's what's being deferred in GRID,
23 correct?

24 A. That's right. The forward price curve are--is
25 representative of the price of firm market purchases.

1 Q. Well, firm meaning at that moment in time, but you
2 could not go out today and get a strip of firm power contracts at
3 that price curve, could you?

4 A. I think we probably could get something close to it.
5 I don't think we've ever tried in recent history.

6 Q. Why not?

7 A. A lot of it has to do with our, you know, hedging
8 horizon issues we've discussed. We don't--we don't normally go
9 out ten to twenty years. We did that on a one-off basis on
10 natural gas. Mr. Dodge is asking if we've done that on electric
11 purchases, and my answer is, we have not done that in recent
12 years.

13 Q. If you honestly believe that today you could tie down
14 the 20-year contract power purchases for all of your front office
15 transactions at your forward price curve, why wouldn't you be
16 doing that? Would that not be in the interest of ratepayers?

17 A. I don't know if it would be in the interest of
18 ratepayers. That's not for the Company to decide. If we lock
19 that in based on our forward price curve and it turn out that
20 prices went down, there would be a lot of second- guessing going
21 on.

22 Q. You don't believe--you honestly believe you could
23 go get that contract today? You think a producer today would tie
24 you down a 20-year contract at your forward price curve?

25 A. I--I don't know.

1 Q. I think you don't know because it's not available.

2 A. No, I don't know because I don't know. We've never
3 tried.

4 Q. But so when you say GRID prices and the avoidance
5 of firm contracts, all you're saying is your forward price curve.
6 Whatever that is, whether you look at it as an indexed price or a
7 firm price, it's not actually reflective of any contract that you're
8 aware of that ties prices down for that period, but rather your
9 internal 20-year projections, correct?

10 A. Well, that's not correct. So for the first six years of
11 the 20-year period, they are based on broker close or market
12 prices and those we could lock in today.

13 Q. After six years, what I said is correct, is it not?

14 A. No. In the seventh year is a blending of what we
15 could lock down today and then a fundamentals market forecast,
16 and then beyond your seven, it is what Mr. Dodge has
17 represented it to be.

18 Q. And in any event, in the first six years, you don't go
19 out and get quotes for the entire amount of front office
20 transactions. You're just using what you see in the market as
21 today's pricing over those six years and assume it's going to be
22 available for the entire however many hundred thousand
23 megawatts you may need in front office transactions; is that
24 correct?

25 A. I think you lost me on that one.

1 Q. In other words, it isn't based on a six-year contract
2 you've entered into to tie down your entire front office
3 transaction needs for the next six years. You're looking at
4 market quotes of various types, of various lengths out into the
5 six-year period?

6 A. That's correct.

7 Q. You used in your modeling TMY-2 data; is that
8 right? Are you familiar with that term?

9 A. I believe that that's what SunEdison said we used.

10 Q. And did you?

11 A. I don't know. We used the PVWatts data.

12 Q. And the PVWatts data you used again uses the
13 average solar production that we've already discussed over a
14 wide geographical area, correct?

15 A. That's correct.

16 Q. Would it not be better matched--would it not be a
17 more fair matching to use your average load data over the same
18 period that you used the average solar production over the same
19 period? In other words, take that same five-year period that
20 you're using average solar production from the TMY-2 or the
21 PVWatts data and compare it to your average system load--peak
22 load so that you're comparing averages to averages?

23 A. That might be a reasonable approach.

24 Q. You haven't done that, I take it?

25 A. No, we haven't.

1 Q. You respond to Ms. Yates' testimony in part by
2 indicating that she's incorrect in stating that PacifiCorp failed to
3 adjust the time for daylight savings time. Can you show me
4 where in your study or your direct testimony where you
5 demonstrate that you corrected for daylight savings time? I'm
6 not talking about the graph you showed in your surrebuttal. I'm
7 saying in your direct, is it ever--is there anything in there that
8 shows that you corrected for daylight savings time?

9 A. Well, the graph in my surrebuttal shows that we
10 adjusted--

11 Q. Not in your draft. I know you put a graph in there.
12 I'm trying to understand the data. Where can we look in the data
13 and see that you've corrected for daylight savings time? I know
14 you said you did. I'd like to understand how you demonstrate
15 that beyond just saying it.

16 A. I believe all the work papers were provided for the
17 development of the study that we did.

18 Q. So you believe somewhere in the work papers, it
19 would demonstrate that you've adjusted for daylight savings
20 time?

21 A. I'm--I'm not sure.

22 Q. How did you personally go--confirm that fact in
23 response to Ms. Yates? You said, yes, we did, and here's a
24 graph. How did you confirm that?

25 A. Well, I confirmed it by talking with my staff who

1 performed the study.

2 Q. So absent access to your staff, one wouldn't know
3 that by looking at your testimony or your study, that it was
4 corrected for daylight savings time?

5 A. Well, I guess if I were an intervenor looking at what
6 the Company did, I would not start with the assumption that we
7 did it wrong.

8 Q. If you were a witness for the Company presenting
9 testimony, would you explain how you did it so they would know
10 you did it right? Would that maybe be a good idea also?

11 A. It could be, but, I mean, you can't explain
12 everything.

13 Q. But you accused her of giving false statements
14 based on something she couldn't determine from your study or
15 your testimony?

16 A. She could have asked a data request easily.

17 Q. Or you could have explained it. Do you not think
18 that's an important issue for intervenors to understand, that you
19 have or have not corrected?

20 A. Well, if it wasn't in the testimony, I mean, what we
21 presented, we--we--is correct. We didn't say that in the direct
22 testimony. I don't think that's an admission. If Ms. Yates
23 thought it was a problem, she could ask a data request and we
24 would have responded.

25 Q. Mr. Duvall, you--you mentioned in your summary

1 that you called them adders dealing with the--what other
2 witnesses have testified as the avoided risk or avoided costs,
3 potential costs for the environmental qualities of renewable QFs.
4 You called them adders. You said you don't believe the
5 Commission should consider them because they're not known
6 and measurable; is that right?

7 A. That's what I said, yes.

8 Q. Where did you derive that standard from? Why do
9 you use that term? Are you using that from a legal perspective?
10 What does it mean to you to say it's got to be known and
11 measurable?

12 A. When we--I guess when we look at avoided energy
13 costs or avoided capacity costs in our plans, I mean, we can--we
14 know we're going to avoid energy. If we add a QF, we know
15 we're going to avoid capacity at some point. But at this point, we
16 don't know if we're going to avoid some kind of fuel risk or some
17 kind of environmental adder if we use a QF so that's--that's the
18 extent of what I meant by known-- mainly the known part of it.
19 And then when you get by that, then the measurable part is how
20 you measure it, but . . .

21 Q. You agree--you will agree, will you not, that fuel
22 costs in the year 2025 are not known and measurable today?

23 A. They're not known and measurable, but they could
24 be forecast, and they are forecast by independent parties that
25 are experts in the field.

1 Q. And by--specifically, you forecast them, right?

2 A. We use--for natural gas, we use third-party sources
3 such as PIRA or Cambridge Energy, other sources like that for
4 natural gas. And then we use that to feed into our models to
5 develop our electric forward price curves.

6 Q. You also project the cost--the potential cost of
7 carbon regulation in your IRP process, do you not?

8 A. We do.

9 Q. One could rationally determine that there could be a
10 carbon cost in this time frame and conclude that that cost is
11 being avoided just like you assume in your IRP, could you not?

12 A. We could.

13 Q. You chose not to?

14 A. Yeah, and I guess the difference between fuel and
15 carbon is we know that we're going to incur fuel costs. We don't
16 know that we're going to incur carbon costs.

17 Q. But you don't know how much fuel costs you're
18 going to incur? You're projecting that, you're taking a guess at
19 that?

20 A. We are.

21 Q. An educated guess, I admit, but that's all it is, right?

22 A. Yeah, we are--we are taking a projection of that, but
23 we do know that we are going to incur fuel costs.

24 Q. And at least for--for system planning purposes, you
25 know you're going to incur carbon costs because you included it

1 in your preferred portfolio, in selecting your preferred portfolio,
2 do you not?

3 A. I think that's a stretch. I don't think we know that
4 we're going to incur carbon costs. We know that we're going to
5 incur fuel costs, but we don't know that we're going to incur
6 carbon costs.

7 Q. You do know that when you tie down a QF contract
8 today for 20 years, you're going to avoid, for example, the fuel
9 price volatility up or down that will happen in the next twenty
10 years, right--in other words fuel prices will change from your
11 projections, correct?

12 A. They will. And as you said, they could go up or
13 down.

14 Q. And--and so when you tie down a contract today,
15 you know that you're getting a value, if you view it as a value, in
16 the hedge against that volatility up or down?

17 A. Yeah, I'm not sure what is meant by value here. I
18 mean, if we didn't hedge what we've shown in our IRP is that at
19 the end of the day, the outcome should be the same as if we did
20 hedge. The expected outcome doesn't change. It's just a matter
21 of mitigating the volatilities for the short runs.

22 Q. The Company does, in fact, hedge fuel, does it not?

23 A. It does.

24 Q. So you see value in hedging, correct?

25 A. We see value in hedging in terms of mitigating the

1 impact on near-term rate impacts.

2 Q. And that could be up or down, but there's value in
3 hedging, correct?

4 A. There's--there's value in terms of stability.

5 Q. So you know you've bought that value, stability
6 when you sign a QF contract for 20 years. You may not know
7 what the measurement of that value is, but it's a known value
8 with a difficult measurement and yet you don't assign any value
9 to it in your QF approach to--to--in your model for determining
10 avoided cost prices, you don't give any value of that--that
11 stability, do you?

12 A. No, we don't.

13 Q. And so like fuel prices, it's a known price, it's a
14 known value, difficult to measure. And yet on the one you're
15 willing to project 20 years out on and on the other, you just say
16 can't measure it. Do you think that's fair to QF producers?

17 A. Well, when we talk about fairness, it's about
18 whether it's fair to QF producers and whether it's fair to retail
19 customers. So if you add a--if you put an adder on a QF price,
20 then that's going to be reflected in retail customers' rates, so it's
21 a matter of does that make sense or not.

22 Q. And do you see any customers that have come in
23 saying that we don't think it's fair to pay the full value of what
24 you get from a QF?

25 A. I think the--the answer's no, I haven't seen a

1 customer that says that, but I don't know that customers would
2 agree on what the full value is.

3 Q. Well, that's what this hearing is about, but I'm just
4 trying to get you to acknowledge--and I think you have--that
5 there are values in this product, a 20-year QF product. Stability
6 is one value I think you acknowledged is there, that we don't
7 measure and we don't reward in the pricing, we don't include in
8 the pricing?

9 A. Correct.

10 Q. Is that a correct statement?

11 Now, let me--let me try then with avoidance of
12 environmental regulations. If you had a producer that came to
13 you today and said, I've got a natural gas plant. I'm offering you
14 Q3 energy and capacity, whatever--the level you need, so let's
15 assume you need it. And I've got two options--A or B. A is I, the
16 producer, will take all the risks of future environmental
17 regulations. I'll give you a fuel-based price, natural gas-based
18 price, but I'll take all the risk of environmental regulation; or B, I
19 want you, PacifiCorp, to take all the risk of future environmental
20 regulations. I'll give you that same fuel-based price, natural
21 gas-based price, but I want you then to take all the
22 environmental risk.

23 Do you believe there would be a difference in the
24 value in those two products?

25 A. Yeah, I think there would be.

1 Q. So when a QF--now, could you measure--you could
2 measure that if--if the producer gave you Price A and Price B,
3 right? If they said Price A, if I take the risk, is
4 \$100-a-megawatt-hour; Price B, if you take the risk, is \$70a
5 megawatt hour, just as an illustration. You could then measure
6 what that value--at least that producer put on that--that
7 difference in risk. Do you agree with that?

8 A. I--based on your hypothetical, I'd agree on that. I
9 guess I would also note that this is really looking at--I think it's
10 talking about the commercial terms of the contract. And Mr.
11 Clements is really the person--our witness who deals with the
12 commercial terms, so I'm not sure if I've got that right or not,
13 but--

14 Q. And I'm sure he's addressed it all--I think his
15 testimony is limited to direct. But the--I want you to--I want to
16 see if you agree with me that there is a value-- there is a value
17 to your system, your ratepayers in avoiding environmental risk
18 related to carbon and some other environmental controls that
19 may affect thermal plants and purchases that aren't yet tied
20 down, these front office transactions that can vary over the next
21 20 years with higher environmental costs. There's a value to
22 ratepayers in tying down that twenty-year stream today in the
23 form of avoided cost--the avoided risk of additional costs from
24 environmental controls. You'll agree with that, will you not?

25 A. I think it would depend on the commercial terms that

1 went along with that price.

2 Q. Let's assume for my hypothetical that the
3 commercial terms were that you had a creditworthy counter party
4 and that counter party was willing to take all the risks of the
5 environmental--additional environmental controls or regulations.
6 You would agree that that's a value to your customers to have
7 that risk shifted to someone else?

8 A. I would certainly defer that question to Mr.
9 Clements.

10 Q. You're not willing to agree that that would be a
11 value to you if you were a PacifiCorp customer?

12 A. I think it would depend on the--the terms of the
13 deal--

14 Q. Confine to my hypothetical, again. My hypothetical
15 is, you have decided, as PacifiCorp, you're going to take that
16 price and you're going to shed the risk to someone else. There's
17 value in that or you wouldn't pay more, right? I'm not asking to
18 you determine whether you would choose A or B. I'm saying if
19 you got A without paying anything for it, that's a value to your
20 ratepayers, avoiding the risk of environmental regulation. You
21 don't agree with that?

22 A. I--again, it comes down to all of the--I mean, this is
23 a hypothetical. So I'm not sure really how to respond to it
24 because it depends on all the different terms and conditions that
25 would go along with that arrangement.

1 Q. So let's take it out of a hypothetical. If the
2 Company signs a contract tomorrow with a wind or a solar
3 developer that says we will deliver this amount of energy over
4 this amount of years, no environmental risk because it's--at least
5 the ones I'm talking about--solar--I mean, carbon or of mercury
6 or any of the other environmental regulations the Company's
7 grappling with today in its thermal plans. There is a value to
8 ratepayers you tie down. But that stream of energy and capacity,
9 you avoid all those risks. Do you--I mean, you purport to be
10 representing the ratepayers here. You don't see that as a value
11 to your ratepayers?

12 A. Again, I mean, there's--you're isolate--
13 isolating one risk. There may be other risks. I don't know with
14 regard to a particular facility. You'd have to assume that it's
15 going to be able to last during the full contract term, that there
16 are other issues that come up--you know, for example--you know,
17 the risk of avian issues, for example, on wind plants. I don't
18 know. I mean, it's all a matter of the whole--all the terms and
19 conditions along with the price as to whether that's beneficial or
20 not beneficial to the customers.

21 Q. And you face similar risks in your thermal
22 purchases, too, do you not?

23 A. Yeah, we would.

24 Q. Assuming--you're not willing to assume, but
25 assuming the Commission sees some value to ratepayers in

1 avoiding environmental costs down the road, your approach gives
2 no value to that--to that--gives no payment for that value added
3 by a QF resource, does it?

4 A. Yes, so your premise was if the Commission wants
5 to provide a--if the Commission sees there's a benefit--an
6 environmental benefit and wants to provide an additional
7 payment to the QF to cover that, then that's certainly up to the
8 Commission.

9 Q. Mr. Duvall, this may be--let me see. This is in your
10 testimony, so I'm going to start with you. If you want to defer
11 this to Mr. Clements--may I approach, Mr. Commissioner?

12 THE HEARING OFFICER: Sure.

13 BY MR. DODGE:

14 Q. If you want to defer this to Mr. Clements, even
15 though I don't think he addressed it in his testimony, I would be
16 okay with that.

17 Mr. Duvall, I'm referencing here your testimony in
18 response to Ms. Wright and Ms. Yates and others regarding the
19 cap versus the uncapped payment stream to QFs. Do you recall
20 that general line of questions or testimony?

21 A. I do.

22 Q. What I've handed you is two pages out of Appendix
23 B, the Rocky Mountain Power's most recent updated avoided
24 cost study. Are you familiar with that document that would--that
25 was filed with the Commission in April?

1 A. Yes, I am.

2 Q. And do you recognize Tables 2 and 3 in Appendix
3 B? I'll ask that this be marked SunEdison Cross No. 1.

4 Second and third pages of this exhibit, Mr. Duvall,
5 are Tables 2 and 3 of Appendix B. Do you recognize those
6 tables?

7 A. Well, if I had the whole filing in front of me, I could
8 validate it, but I would generally accept that these are from that
9 filing.

10 Q. Subject to check, I'll represent this is from that
11 filing. Obviously, if you find differently, please let us know.

12 My question--and this goes to how the GRID model
13 is operated in terms of producing pricing--and again, if you tell
14 me you want me to ask Mr. Clements, and if counsel agrees that
15 he can answer that, and the Commission, I'll be okay. But if you
16 turn to Table 3, I think what you will see between Tables 2 and 3
17 is--I believe the only difference in the two tables is in--beginning
18 on rows year 2028 through 2033 in the May column. And in the
19 December column, there is shaded or bolded numbers. And
20 down below, it says-- denotes months with capped energy prices.
21 And I believe that the witnesses to whom you responded were
22 referring to this exhibit or something like it. I think there's an
23 older version of this in your work papers. And we're trying to
24 understand the import of the capped energy prices shown in this
25 table.

1 And my question is, when a QF contract is signed
2 and if--assuming it was signed the day that this analysis was
3 done for GRID--that was submitted--excuse me--for the
4 avoided--for the Commission filing, would the prices they receive
5 for their energy be capped in the years 2028 through 2033 in the
6 month of May at the prices indicated in this Table 3?

7 A. No, they would not.

8 Q. Can you explain to me what this references when it
9 talks about capped energy prices?

10 A. As I--as I understand the capped energy prices,
11 they're not used for the QF payments for firm power. I think the
12 only place they would be used would be for--well, in fact, the title
13 is unscheduled or nondispatchable power. It's really for non-firm
14 energy. We very rarely, if ever, use these capped prices.
15 They're part of the filing. They've been part of the filing for
16 years. But in terms of the QF prices that we're--that we use for
17 the Schedule 38 and for what we're proposing here would not
18 include that cap.

19 Q. Can you explain to me what you mean by
20 unscheduled or nondispatch energy? If I have a QF contract and
21 I contracted to sell all of my energy output to you, when would
22 the unscheduled part come in?

23 A. It would not apply to a firm QF contract, so my--I
24 believe that, like I said, would be for--you know, if we had the
25 unique circumstance of just getting non-firm energy from a QF,

1 we would, I think, use these capped values.

2 Q. Thank you. I appreciate that clarification because I
3 can tell you on this side, nobody understood what that was
4 referring to--
5 well, I shouldn't say nobody. I didn't understand what that was
6 referring to.

7 A. Yeah, it was an honest mistake.

8 MR. DODGE: Thank you. I have no further
9 questions.

10 THE HEARING OFFICER: We'll be in recess until
11 twenty minutes till. Thank you.

12 (Recess taken, 10:31-10:43 a.m.)

13 THE HEARING OFFICER: We're on the record.
14 Mr. Simon.

15 MR. SIMON: Thank you, Commissioner Clark.

16 EXAMINATION

17 BY-MR.SIMON:

18 Q. Good morning, Mr. Duvall.

19 A. Good morning, Mr. Simon.

20 Q. Are you still awake and okay to continue on the
21 stand?

22 A. I'm--I'm good to go.

23 Q. I represent Scatec North America and wanted to ask
24 you a few questions. I'd like to recall your attention back to the
25 Q and A you had with Ms. Hayes. She'd asked you some

1 questions about the Company's--the fact that the Company's
2 current capacity deficient through the years in the IRP, most
3 recent IRP. She'd asked you a question as to whether or not
4 market purchases for front office transactions defer the need for
5 new plant construction. What was your answer to that question?

6 A. I don't recall that that was the question. But they do
7 defer. So when you're looking at filling a capacity deficit, you
8 know, the options we typically have are market purchases, or
9 front office transactions, DSM, or steel in the ground, and
10 combined cycle combustion turbine, probably among other
11 things, renewable resources as well.

12 Q. And so but for the fact that you have these front
13 office transactions each of those years, you would not have
14 enough capacity to serve your needs and required reserves,
15 correct?

16 A. The--I guess that's--that's correct. But we do have
17 access to markets, and we can buy from the market to satisfy
18 those deficits.

19 Q. Do you current--but you don't currently have enough
20 market purchases locked in to cover your full capacity needs in
21 years 2014 through 2022 as indicated in the IRP, correct?

22 A. The--the purchases are not locked in, but the
23 markets are there and our access to the markets is known.

24 Q. So we're relying on the hope that that power will be
25 there when you, at some point in the future, seek it out, correct?

1 A. It's not really on the hope. It's on the realities that
2 that's how we operate our business.

3 Q. Do you recall the western electricity crisis of years
4 2000 and 2001?

5 A. I do.

6 Q. Do you recall a lot of companies scrambling to find
7 generating capacity to meet their needs?

8 A. I--I recall that--you know, prices increased. And the
9 Company, I believe, had no loss of load during that time frame.

10 Q. Can you say the same for other utilities in the
11 WECC--in the WECC?

12 A. I don't know.

13 Q. And locking in a long-term QF contract would reduce
14 the need to rely on those market purchases, correct?

15 A. It would and that's reflected in our pricing for QFs.

16 Q. You acknowledge that you're currently capacity
17 deficient. Suppose my client Scatec were to approach you today
18 ask to enter into a long-term PPA pursuant to Schedule 38 of the
19 tariff. Would you offer a capacity payment starting in year 2015?

20 A. We would offer basically the Proxy/PDDRR method.
21 And so when the notion of a capacity payment in the--in the
22 sufficiency period, the capacity payment is built into the dollar
23 per megawatt hour charge. So we--in the differential GRID
24 studies, we actually defer front office transactions with the QF.

25 Q. But there's not an actual separate capacity payment

1 being offered those years until you get to year currently 2028; is
2 that right?

3 A. The capacity and energy payment are not separated
4 out until 2024.

5 Q. And the QF would, in fact, defer the need for some
6 front office transactions, correct?

7 A. That's correct, and that's reflected in the method.

8 Q. Regarding these contracts you have yet to enter
9 into, you don't know for sure what the terms and conditions of
10 those are going to be, do you?

11 A. The front office transactions are what we call
12 standard products, and the standard products are--are already
13 defined. They're heavy-load hour, light-load hour, flat and they
14 have particular delivery points and they're all identified in the
15 IRP.

16 Q. But you're basing this on contracts that you have yet
17 to enter into, correct?

18 A. That's correct.

19 Q. So you don't know necessarily what the terms and
20 conditions of those contracts will be in the future?

21 A. Well, the terms and conditions of the contracts are
22 pretty much dictated by master agreements like the International
23 Swap Dealer Association, so yes, we do know the terms and
24 conditions of those deals prior to entering them.

25 Q. Prior to entering them, but right now, you haven't

1 entered into them yet, so you don't know what contracts you'll
2 necessarily enter into in the future?

3 A. That's right. The one piece we don't know is what
4 price we will pay.

5 Q. When you use the term firm, is there a universal
6 definition for that?

7 A. I believe it's--it's probably spelled out in the
8 contracts. I mean a firm contract means that whoever's
9 providing the power is--is responsible to deliver that power. If
10 they don't deliver that power, there's sometimes liquidated
11 damages. Probably Mr. Clements would be more versed at
12 talking about the certain commercial arrangements that would be
13 associated with that.

14 Q. Let me turn your attention now to your testimony
15 regarding how you measure the capacity contribution for solar.
16 Let me first ask you a question: Suppose my client Scatec were
17 to ask you for a long-term PPA under Schedule 38. What kind of
18 capacity contribution percentage would you assign to that?

19 A. We would assign the capacity contribution shown in
20 my exhibit of the Company's direct testimony.

21 Q. So the methodology you're asking for approval today
22 is what you're actually already doing?

23 A. That's correct.

24 Q. Okay. Has the Commission previously approved
25 that methodology?

1 A. My understanding is that the Commission doesn't
2 actually approve, but we do file quarterly updates to our
3 Schedule 38 methodology and we identify any known changes
4 that we're putting in the methodology. The Division reviews that,
5 but I don't think there's a formal approval by the Commission on
6 each one of those.

7 Q. Let me turn your attention to your exhibit from your
8 direct testimony. This is a historical capacity contribution of
9 wind and solar resources. Do you have that there with you?

10 A. Yes, I do.

11 Q. The first sentence of that--and is this what you
12 relied on for your testimony to determine capacity contribution?

13 A. Yes, it is.

14 Q. The first sentence on page 1, that says, "PacifiCorp
15 uses the historical capacity contribution provided by its portfolio
16 of existing intermittent resources to evaluate the capacity value
17 of new intermittent resources." Is that correct?

18 A. That's correct.

19 Q. And is that what you actually did in regarding to
20 solar intermittent resources?

21 A. No, it's not. That's referring to the wind resources,
22 the solar--

23 Q. That sentence doesn't say wind, does it?

24 A. No, it doesn't, but I believe as you go down through
25 the--the exhibit, it--it clearly talks about the source of the data

1 for the solar.

2 Q. So instead for solar, you used a simulated class of
3 solar resources representative of locations throughout the
4 PacifiCorp service territory; is that correct?

5 A. That's correct.

6 Q. Okay. And you identify those locations on the last
7 page of that report, correct?

8 A. That's correct, in the last paragraph.

9 Q. Okay. And those locations are Pocatello, Idaho;
10 Yakima, Washington; Pendleton, Oregon; Lander, Wyoming; and
11 Salt Lake City, Utah. Is that correct?

12 A. That's correct.

13 Q. Has the Company actually received requests to
14 enter into long-term PPAs under Schedule 38 for any of those
15 locations?

16 A. The only one that would apply for Schedule 38 in
17 Utah would be Salt Lake because the QF has to be located in
18 Utah. And I don't recall that we have received any requests
19 under Schedule 38 for Salt Lake City.

20 Q. So these locations don't have necessarily any
21 bearing as to where people are actually planning to develop
22 large-scale solar projects, correct?

23 A. Yeah, I would--I would say that there--
24 that that's correct.

25 Q. Okay. I notice one location missing from here is

1 anywhere in southern Utah; is that correct?

2 A. That's correct.

3 Q. And that would include Iron County, Utah, where
4 Scatec is working on its project?

5 A. That's correct.

6 Q. Okay. So if Scatec were to approach you today to
7 ask for a long-term PPA pursuant to Schedule 38 of your tariff,
8 would you use the location of where it's actually going to be or
9 this aggregation of locations that have no relation whatsoever to
10 where Scatec is going to build its project?

11 A. We would use the data that's come from this study.

12 Q. And you have data available for other locations in
13 the PacifiCorp service territory, correct?

14 A. Yeah, I believe that's right. The--the PVWatts data
15 does cover more than the five areas that we have used in this
16 study.

17 Q. You just picked these?

18 A. We did.

19 Q. Let me turn your attention towards the bottom of
20 page 16, your capacity contribution study.

21 A. Okay.

22 Q. Let me turn your attention to the first bullet near the
23 bottom of the page. And that--that indicates that PacifiCorp
24 measured capacity contribution, quote, based on the aggregate
25 capacity benefit of the resource class taken as a whole, not the

1 capacity benefit of any individual resource analyzed in isolation,
2 correct?

3 A. That's correct.

4 Q. All right. And could you please turn your attention
5 to page 2?

6 A. Okay.

7 Q. The first bullet on the top of that page, it explains,
8 The use of an aggregate capacity value is required because a
9 geographically dispersed array of facilities may produce a level
10 of reliability greater than any one resource taken separately. Is
11 that correct?

12 A. That's what it says, yes.

13 Q. Okay. It says, "may," right?

14 A. Yes, it does.

15 Q. It doesn't say, "will"?

16 A. Correct.

17 Q. So that--that statement--it's not necessarily true if
18 one location with a large-scale solar resource consistently
19 provides a higher capacity contribution than others, correct?

20 A. I--I--I'm not sure if that's correct or not.

21 Q. All right. Let me try a hypothetical. Suppose you
22 have a location with a large-scale solar project. I'm going to pick
23 a location randomly, let's say Iron County. And then you've got
24 four or five other locations. And those--let's say four. So five
25 total--Iron County and four others in northern Utah. And let's say

1 the Iron County location consistently provides a higher-capacity
2 value than the other four. Do you follow my hypothetical?

3 A. When you say capacity value, is that a capacity
4 contribution at the time of system peak or is that some other
5 measure?

6 Q. Capacity contribution. Does that--

7 A. At the time of system peak?

8 Q. Sure.

9 A. Okay. And so the Iron County facility has a higher
10 contribution at the time of system peak than the other four
11 locations.

12 Q. And yet if you use this aggregation approach, that
13 would result in the Iron County location getting a lower capacity
14 payment than it was actually providing because of these other
15 facilities being in locations, right?

16 A. We probably have to work through the example to
17 see what the diversity effects are, but--
18 so I don't really know how to answer that question.

19 Q. All right. But the percentage you come up here is
20 based on Salt Lake City, Utah, right? Pocatello, Idaho; Yakima,
21 Washington; Lander, Wyoming; Pendleton, Oregon. I apologize
22 to Pendleton if I left them out. So if that in aggregate is actually
23 providing an amount of capacity contribution that's lower than
24 Iron County facility, you would actually be punishing the Iron
25 County facility based on deciding where it's taking locations

1 elsewhere?

2 A. Yeah, under--under those specific assumptions, that
3 would be correct.

4 Q. Let me turn your attention back to page 2. Let me
5 turn your attention to the second bullet at the top of page 2. It
6 says there, "The use of aggregate output ensures that all of the
7 generators in a resource class share proportionally in the
8 capacity benefit provided by the class as a whole," correct?

9 A. That's what it says, yes.

10 Q. Okay. But that--I mean, we could actually write
11 benefit or detriment, right, because there's going to be some
12 facilities that provide a stronger benefit than others, but are
13 going to be penalized by this aggregation, correct?

14 A. Yeah, I think that's probably a fair characterization
15 of the impact.

16 Q. How many large-scale solar PPAs has PacifiCorp
17 executed under Schedule 38 of its tariff?

18 A. None in Utah.

19 Q. Do you have any QF PPA contracts for solar
20 projects greater than 3 megawatts in any of the other states in
21 your system?

22 A. Not that I'm aware of, but we have--for example,
23 we've got rooftop--rooftop solar programs in Oregon where we
24 have about 25 megawatts and Utah is about 12 megawatts.
25 We've got a 2-megawatt facility that's a Black Cap Solar in

1 Oregon. And we've just recently signed about 20 megawatts of
2 solar contracts under Schedule 37 in Utah.

3 Q. But that's an aggregate of many smaller solar
4 projects together, right?

5 A. Yeah, it's an aggregate of about 50 or 60 megawatts
6 of smaller projects.

7 Q. And none of those projects have contracts pursuant
8 to Schedule 38 or are individual solar projects greater than 3
9 megawatts, correct?

10 A. That's correct.

11 Q. So you're paying them, if any of those are actually
12 being paid pursuant to PURPA, they're being paid as a different
13 methodology than what's the subject of the case today, correct?

14 A. I think—yeah, that would be correct.

15 Q. So it's not really relevant to my questions here
16 about the proper way to calculate the methodology for paying a
17 large scale solar project pursuant to Schedule 38?

18 A. I'm not sure whether it's relevant to your question or
19 not.

20 Q. Let me turn your attention to the issue of solar
21 integration charges. You included this subject in your testimony,
22 correct?

23 A. I did. That's right.

24 Q. And I believe it was in your direct testimony that you
25 explained that one of the reasons PacifiCorp submitted a filing

1 that instituted this proceeding was to ask the Commission to
2 reexamine some of the determinations it made in your earlier
3 avoided cost proceeding, correct?

4 A. That's correct.

5 Q. And one of these issues is to reexamine what the
6 integration costs PacifiCorp would have permission to charge,
7 correct?

8 A. Yeah, it would be the integration cost that would be
9 ascribed to solar and wind resources.

10 Q. And the Commission previously approved a \$3-per-
11 megawatt hour charge for wind integration, correct?

12 A. That's correct.

13 Q. What has the Commission previously approved for
14 an integration charge for solar?

15 A. Previously the Commission did not address
16 integration for solar. So there's no charge currently in the
17 current Schedule 38 for integration costs for solar.

18 Q. Okay. So--so let me give you a hypothetical.
19 Suppose my client Scatec approached you and asked for a long
20 term PPA under Schedule 38 today. Would you include a solar
21 integration charge in that proposal?

22 A. Yes, we would.

23 Q. Okay. You just acknowledged that the Commission
24 has yet to approve a solar integration charge for PacifiCorp,
25 correct? That's what you just testified, right?

1 A. What I testified to was it was not an issue in--in the
2 2003 case. But what came out in the 2003 case was for the
3 Company to file quarterly updates of its Schedule 38
4 methodology and in those quarterly updates--and as, I guess,
5 subject to check--I believe we have included in those quarterly
6 updates that when we price out solar we would include solar
7 integration costs based on our wind integration levels.

8 Q. But to take all things together, it's your testimony
9 that PacifiCorp is currently assessing a solar integration charge
10 to any of the few large-scale solar projects that are trying get
11 long-term PPAs under Schedule 38 even though the Commission
12 has yet to rule on whether or not the solar integration charge is
13 appropriate, let alone the level of that charge?

14 A. Yeah, and I--I guess I'll--I believe that's correct. I
15 want to put that subject to check. We've given out prices under
16 Schedule 38 recently. And I would just need to go check and
17 make sure that we--whether we included a solar integration
18 charge or not in that--in those proposals.

19 Q. So while we're on that subject, are there other
20 aspects or charges that PacifiCorp regularly assesses customers
21 before the Commission has approved them?

22 A. Well, again, the Commission has set up a process
23 for the Company to provide updated information so that as things
24 change from--from time to time, that those are included in the
25 quarterly updates. The Commission has asked the Division to

1 review each of those quarterly updates to see if they're
2 reasonable and the Division will opine. Sometimes they say no;
3 other times they say that looks reasonable.

4 Q. Okay. So to summarize the situation, the
5 Commission has yet to approve a solar integration charge.
6 Actually, let me back up a second. Do you know what--what
7 amount the solar integration charge that PacifiCorp currently is
8 asking solar to pay when they ask for a Schedule 38 long-term
9 contract?

10 A. Again, subject to check, it would be the same
11 charge as wind integration.

12 Q. Okay. But the wind integration charge was
13 developed through a proceeding where everybody actively
14 examined wind integration costs and reached that--that amount,
15 correct?

16 A. That is correct.

17 Q. Okay. And the same has not happened for solar?

18 A. That's correct.

19 Q. And your proposal today is, you've come up with a
20 new wind integration charge above the currently charged \$3,
21 correct?

22 A. I'm not sure I followed that. Sorry.

23 Q. Are you seeking to increase the integration charge
24 for wind today?

25 A. As compared to what the Commission approved in

1 the 2005 order, that was \$3, we are proposing something that's
2 just north of \$3.

3 Q. It's actually \$4.35, right?

4 A. I'll take your word for it.

5 Q. Well, I'm reading your testimony, right?

6 A. Can you show me where in my testimony?

7 Q. Can you please turn to your direct testimony? Can
8 you please turn to the last page of your direct testimony? Let me
9 turn your attention to lines 436, 437, and 438.

10 A. Got it.

11 Q. You write here, "In the 2012 Q2 Schedule 38
12 compliance filing, the Company calculated wind integration cost
13 to be \$4.35 per megawatt hour"--

14 THE HEARING OFFICER: Mr. Simon, it might help
15 if you're a little bit slower. It will help our reporter.

16 MR. SIMON: I apologize, your Honor. I apologize,
17 Commissioner Clark.

18 BY MR. SIMON:

19 Q. It says, "In the 2012 Q2 Schedule 38 compliance
20 filing, the Company calculated wind integration cost to be \$4.35
21 per megawatt hour on a 20-hour nominal levelized basis
22 beginning in 2013." Is that correct?

23 A. That's correct.

24 Q. And is that the rate you're proposing today?

25 A. That is the rate we're proposing today.

1 Q. Okay. And you're proposing to use that same rate
2 for solar, correct?

3 A. That's correct.

4 Q. And you base that rate on studies you conducted
5 regarding wind integration costs, correct?

6 A. That's correct.

7 Q. Did you conduct any studies on solar integration
8 costs to recommend that same level be used for solar?

9 A. No, we did not.

10 Q. Regarding the wind--wind integration cost studies
11 you conducted, were those forward-looking or based on prior
12 experience?

13 A. The wind integration studies that were conducted
14 were based upon wind data that came from historical time
15 periods.

16 Q. So does that take into account any future
17 plans--changes on how PacifiCorp operates its system?

18 A. The studies take into account how PacifiCorp
19 operates its system today. There are--
20 there are no assumptions in there as to any particular changes
21 on how we will operate our system in the future.

22 Q. Are you aware that PacifiCorp is currently pursuing
23 new efforts with the California independent system operator to
24 operate a region-wide energy imbalance market?

25 A. Yes, I am.

1 Q. And do you know what the Company's views are of
2 that proposal?

3 A. Generally, I do, that the Company is working on the
4 agreement and hopes to have that in place, I believe, in late--I
5 think it's late 2013, maybe into 2014. I don't know the most
6 recent expected date of completion of that. And then once that's
7 in place, the Company expects that it should be able to reduce
8 its cost of providing regulation, should reduce the cost to serving
9 the customers, but until we actually get that in place and have
10 some operating experience, it's pretty hard to forecast what the
11 savings would be.

12 Q. Let me give you a hypothetical. Suppose the
13 Commission today approves your request of charging an
14 integration--assessing an integration charge for wind and for
15 solar at \$4.35 per megawatt hour based on the wind studies
16 you've already conducted. Suppose also that the energy
17 imbalance market agreement you guys are pursuing with the Cal
18 ISO advances as planned and achieves the results that
19 PacifiCorp has advocated and advanced to the public. Okay?

20 A. Okay.

21 Q. Suppose as a result that the actual integration
22 charges, in fact, are reduced because of the success of that
23 energy imbalance market change.

24 A. Okay.

25 Q. Suppose also that my client Scatec enters with you

1 today after the Commission has approved your \$4.35 megawatt
2 hour charge enters into a long-term PPA with you that includes
3 that \$4.35-megawatt-hour charge you've requested. Would you,
4 at a future date, come back and lower that charge amount based
5 on actual experience with large-scale solar on your system and
6 with the new energy imbalance market in place based on this
7 data if those cost reductions actually occur?

8 A. So that question is more related to commercial
9 terms and should be referred to Mr. Paul Clements.

10 Q. Did Mr. Clements testify today on solar integration
11 charges?

12 A. So I don't know that he testified on solar integration
13 charges, but he is the Company's witness who negotiates these
14 contracts and would be the one who would actually determine
15 what commercial terms are appropriate and which ones are not.

16 MR. SIMON: Permission to approach the witness.

17 THE HEARING OFFICER: Yes.

18 MR. SIMON: Great. My client--my colleague, Ms.
19 Foxley, will do so.

20 BY MR. SIMON:

21 Q. Mr. Duvall, do you recognize the document that's
22 just been handed to you?

23 THE HEARING OFFICER: Before we proceed, I
24 think Mr. Duvall's counsel should have a copy of this.

25 MR. SIMON: I apologize.

1 THE HEARING OFFICER: Do you have one?

2 MS. HOGLE: I would, actually. I just asked her for
3 one.

4 THE HEARING OFFICER: If we--if we're short,
5 lets--lets have her--

6 MR. SIMON: I appreciate that, your Honor. I think
7 that's all we've got, but--

8 THE HEARING OFFICER: That's fine.

9 MR. SIMON: --I by no means meant to avoid
10 counsel having a copy.

11 THE HEARING OFFICER: Chairman Allen and I will
12 look on.

13 MR. SIMON: Thank you. I apologize. I don't know
14 if we should go ahead and mark this as Scatec
15 Cross-Examination Exhibit No. 1.

16 THE HEARING OFFICER: We'll do that, yes.

17 BY MR. SIMON:

18 Q. Mr. Duvall, are you familiar with this document?

19 A. It's--I'm not--I mean, it looks familiar as something
20 that comes out of one of our quarterly updates. And judging by
21 the title that says, "Model updates through March 2013," I'm
22 presuming it's the Q1 2013 update, but if you can validate that
23 for me, I'd appreciate it.

24 Q. That would be correct.

25 A. So this generally looks like a--

1 information that would have been included in the Q1 2013
2 Schedule 38 quarterly update.

3 Q. And that is correct. Thank you.

4 Could I turn your attention to page--the bottom of
5 page 2 of this document from PacifiCorp's avoided cost
6 compliance filing from Q1 of 2013.

7 A. Okay.

8 Q. There's a reference here to IRP partial
9 displacements and a base case of thermal partial displacement
10 was 436.2 megawatts, correct?

11 A. Correct.

12 Q. Can you explain to me the significance of the queue
13 here and how that relates to calculating avoided cost?

14 A. Yes. So the--I believe this used the September
15 2012 resource need assessment, which would have shown the
16 next thermal resource would have been needed in 2025. I
17 believe that's correct. I'd have to--that's subject to check, but I
18 think that's right.

19 And what the queue does is, it looks at that next
20 deferrable resource and says: Well, depending on--you know,
21 we can't give everybody the same price so sort of first in-- you
22 know, first come, first serve. And so as we get different requests
23 in or we get new contracts that were signed since the last IRP,
24 we say: Well, those are already taking up a portion of the
25 deferral of that next deferrable resource. And pretty soon, if you

1 have enough--enough of these add up, you actually get to the
2 point where you completely defer the 2025 resource, and so
3 prices beyond that would then look at deferring the next
4 deferrable resource, which I believe in that study was 2028.

5 Q. So in looking at the queue order, I take it that the
6 projects that--higher in the queue get treated first in terms of
7 what the displacement effect is that--that ultimately results in the
8 avoided cost rate that you guys provide to them, correct?

9 A. Right. So the first ones in the queue would avoid
10 the highest price incremental resource. So once that's taken up,
11 then the next one would get a slightly lower price, and so on.

12 Q. And I see here in the list that queue numbers 1
13 through 6 each indicate a--indicate the name of an actual QF and
14 the parenthetical that--
15 "signed," I guess that means that a PPA has been signed with
16 PacifiCorp; is that correct?

17 A. That is correct.

18 Q. Okay. And then queue numbers 7 all the way down
19 through number 23, we just have a queue number, so we don't
20 know exactly what projects these are, correct?

21 A. Yeah, that's correct.

22 Q. I mean, they're not publicly known. PacifiCorp
23 knows?

24 A. Yeah, PacifiCorp knows, sure.

25 Q. And these are ones that have yet to execute a PPA

1 pursuant to Schedule 38 of the PacifiCorp tariff, correct?

2 A. Yeah, that's correct. And I would just note that
3 these are QFs that--across the entire system.

4 Q. So would they include Utah and Wyoming and
5 Oregon. I don't see any from Idaho here, but there could be?

6 A. Correct.

7 Q. So I take it, then, that if your goal is to get the
8 highest avoided cost rate you can, that it would be better to be
9 queue position number 7 than, say, queue position number 23,
10 correct?

11 A. Yeah, that's correct.

12 Q. Okay. At what the point do you add a QF to the
13 queue?

14 A. We add QFs to the queue when we provide
15 their--when they make pricing requests and we provide them
16 pricing.

17 Q. When do you remove QFs from the queue?

18 A. Actually, I think Mr. Clements would be better
19 versed at answering that question. We rely on Mr. Clements and
20 his colleague to identify which QFs should be removed. It usually
21 has to do with the viability of their moving forward.

22 Q. Okay. But Mr. Clements' testimony in this
23 proceeding has been limited to the REC issue, correct?

24 A. I believe that's right.

25 Q. So I assume then that counsel for PacifiCorp

1 wouldn't oppose the parties here to cross-examine Mr. Clements
2 on issues outside the scope of that to the extent you're unable to
3 answer these questions?

4 MS. HOGLE: As counsel, I would have no objection.

5 MR. SIMON: Okay. Thank you, Mr. Duvall. I have
6 no further questions.

7 THE WITNESS: You're welcome.

8 THE HEARING OFFICER: Before we go to Mr.
9 Evans, the questions that related to recent avoided cost filings
10 and whether or not integration costs are included relative to solar
11 projects--will you have an opportunity to confirm your testimony
12 over lunch and report back to us, Mr. Duvall, on that?

13 THE WITNESS: Yes, I can do that.

14 THE HEARING OFFICER: Thank you.

15 Mr. Evans.

16 MR. EVANS: Thank you, Commissioner Clark.

17 EXAMINATION

18 BY-MR.EVANS:

19 Q. I can still say good morning, Mr. Duvall?

20 A. You can.

21 Q. The logistics make you turn way around in your
22 chair to see me, but I do appreciate the effort because it's good
23 to see your face as we're talking, so thank you.

24 Let me start off with a question about the--the
25 first--what you said early on about Utah RECs being accepted in

1 Washington. Did I hear that correctly?

2 A. Yes. Prior--when I wrote my testimony,
3 Washington's renewable portfolio standard law required that the
4 facility--facilities that qualified for providing RECs in Washington
5 had to basically reside in what's called the Columbia River
6 drainage basin, which basically excluded QFs that were in
7 Wyoming and Utah. And so between then and now, they've
8 passed new legislation that basically says that any QF that's
9 connected to PacifiCorp's system would qualify for providing
10 RECs to Washington for compliance in Washington. So that's the
11 details behind that.

12 Q. And--and under the inter-jurisdictional protocol, it's
13 not a one-to-one value of the REC in Washington, is it? Is there
14 a percentage of the value of a REC that would be recognized by
15 Washington?

16 A. Under--under the 2010 protocol, which is what this
17 Commission uses a load-based allocation share amount of those
18 RECs and of those resources would be allocated to Washington.
19 Washington, however, doesn't participate in the 2010 protocol
20 and they don't recognize east side resources, so those end up
21 becoming basically unrecovered costs and unrecovered RECs.

22 Q. And when you say unrecovered costs and
23 unrecovered RECs, what do you mean?

24 A. It means there--while they're assigned to--under the
25 2010 protocol they're allocated to Washington, Washington

1 doesn't recognize them in rates, so they're basically left to the
2 shareholder holders to bear the cost--cost of--and the
3 Washington shareholders also receive Washington's share of the
4 RECs.

5 Q. Does the Company have an RPS requirement in
6 Washington?

7 A. Yes, it does.

8 Q. And it can use now the Utah REC to satisfy that
9 RPS requirement?

10 A. The law allows us to, but in Washington, the--the
11 commission there does not include the cost of any east side
12 resources, so none of the RECs from the east side resources are
13 included in rates either at this point.

14 Q. And that's a result of the Washington state
15 commission decision?

16 A. That's correct, on allocations.

17 Q. Okay. I have some questions for you about the
18 informational requirements that Mr. Brubaker has set out in his
19 direct testimony. Did you read those and are you familiar with
20 them?

21 A. I did.

22 Q. And you commented on them in your rebuttal
23 testimony, I think. It is on page 20, at about line--the Q and A
24 beginning at line 393.

25 A. Correct. I've got that.

1 Q. And you have objected to the Commission adopting
2 that list of informational requirements in this docket?

3 A. That's correct.

4 Q. Is your objection that--to including it in Schedule 38
5 in this docket or is your objection to providing the information
6 that he has listed in his testimony?

7 A. It's a combination of both. I mean, what he's
8 recommending is that the Company provide GRID access to
9 every QF that asks for a price. We give out a lot of prices every
10 year and not every QF really cares about getting access to
11 GRID. They're just looking for a price to see how to maybe
12 advance their project. And it takes a lot of time and effort and
13 money to set up folks with GRID projects each time they ask for
14 a price. The current practice of the Company is that if a QF asks
15 for GRID access, we will provide that and we think that makes a
16 lot more sense than just providing it on a blanket basis. So
17 that's--that's part of the response.

18 The other response is that--that this would
19 apply--the way I read Mr. Brubaker's testimony was his--his
20 request would apply whether you're a QF--renewable QF or not.
21 And I don't believe all of the QFs that are not renewable are
22 represented in this docket, so to come up with changes to the
23 Schedule 38 requirements in this docket that would generally
24 apply beyond renewable QFs, I think, was--I think my testimony
25 was that's really inappropriate because we don't have all the

1 parties that would be interested in that issue as parties in this
2 docket.

3 Q. Well, to that point, is there ever a docket that you
4 know of where all the parties interested in an issue have come in
5 and intervened in the docket? I mean, that's the nature of the
6 proceedings, isn't it?

7 A. Well, this docket was specific to renewable avoided
8 costs.

9 Q. Right.

10 A. And the last docket, the 2003 docket, was--was
11 general in terms of avoided cost to all facilities, and I think we
12 had a much broader participation in that docket.

13 Q. Okay. But you're not saying that there wouldn't be
14 some docket where it would be appropriate for the Commission
15 to consider appropriate informational requirements to be
16 provided with--upon the request for particular QF pricing?

17 A. That's correct.

18 Q. Let me ask you about providing GRID. When you
19 say the Company already provides GRID access to those who
20 request it--is that your testimony?

21 A. That's correct.

22 Q. What do you mean by GRID access?

23 A. The--

24 Q. How--how does one access GRID?

25 A. So when a party asks for GRID access, we get a

1 protective agreement because the hourly information is all
2 confidential. And then once we' got that in place, we actually set
3 up a space on Company computers for that particular user to be
4 able to run GRID. We put an incident to grid out there. We
5 have, you know, storage for them to make runs and save data
6 and all that sort of stuff. They get a secure ID so they can log in
7 through the Web in order to access GRID remotely. And that's
8 all the--basically the process of setting up to use their own
9 GRID.

10 We also offer training if they're interested. We have
11 user manuals. And, you know, if folks ask for training or
12 understanding how GRID works, we're happy to sit down with
13 them and share them.

14 Q. You say in your testimony at lines 411 to 413 that
15 the Company already provides GRID access to those who
16 request it, including Kennecott Utah Copper and Tesoro
17 Corporation. Where did you get that information?

18 A. I don't recall.

19 Q. Do you know whether the Company provides access
20 to Kennecott and Tesoro?

21 A. If Kennecott or Tesoro asked for access, we would
22 provide that.

23 Q. But you don't know whether you have in the past?

24 A. Yeah, I'd have to confirm whether we have provided
25 that in the past or not. We've been doing this for quite a few

1 years with Kennecott and Tesoro and--

2 Q. For someone to use GRID, they need to--
3 what we're trying to do by providing this information, correct me
4 if I'm wrong--is to let the QF customer verify, you know, these
5 possible--the avoided cost pricing that the Company is quoting to
6 them for their next contract, right?

7 A. Can you repeat that? I'm sorry.

8 Q. What we're trying do--what my clients' objectives
9 are is to have the Company provide us with sufficient information
10 that we can duplicate and verify the Company's avoided cost
11 calculations for our next contract.

12 A. That's correct.

13 Q. So in addition to GRID, there's a lot of other
14 information that we need to have in order to make GRID work so
15 that we can verify what the Company did, right?

16 A. I'll go with that, yes.

17 Q. We need to know what assumptions were made,
18 what the inputs were, right?

19 A. Right. And all of the input files for GRID are
20 provided with the GRID access.

21 Q. Right. And sometimes it's not--
22 assumptions are made about--that show up in inputs, but are not
23 verbalized in a way that can be understood what those
24 assumptions are. In other words, a narrative of what assumptions
25 have been made would be necessary to have someone

1 understand the process that the Company went through to get to
2 the avoided cost calculation; isn't that true?

3 A. I guess to some point. I mean, we don't--when we
4 give out prices, we don't provide testimony, but they're based on
5 the latest, you know, quarterly update that we made with the
6 Commission and in that quarterly update, we describe all of the
7 particular changes that we put into the model.

8 So there's a lot of information out there that if you
9 look back through quarterly updates, you know, historical
10 quarterly updates there would be quite a bit of information on
11 what's included in the model. And we're happy to answer
12 requests from developers to help them understand what
13 assumptions we put in the model.

14 Q. Do you have--do you have that quarterly update--do
15 you have a quarterly update in front of you? Wasn't--did--didn't
16 get a copy, just a portion?

17 A. Yeah.

18 Q. You're familiar basically with what's in that quarterly
19 update?

20 A. Yeah.

21 Q. And are you familiar with the kind of pricing that is
22 given to Kennecott and Tesoro on these QF contracts?

23 A. Yeah, I'm familiar with the pricing giving--given to
24 them, yes.

25 Q. It's--it's not--it's monthly pricing, right?

1 A. I believe that's right, monthly.

2 Q. And it's broken down into high load hour and low
3 load hour pricing?

4 A. Correct.

5 Q. Is that information available in the monthly update
6 reports or the quarterly--I'm sorry--
7 the quarterly update reports?

8 A. I--I believe it is. The quarterly updates do provide
9 indicative pricing based on the information that is current at the
10 time of the quarterly filing.

11 Q. And I apologize. I don't know if I
12 have . . .

13 May I approach?

14 THE HEARING OFFICER: Please.

15 MR. EVANS: I did intend to hand this out as I
16 cross-examine.

17 BY MR. EVANS:

18 Q. Can you identify that for us?

19 A. Sure. This is the 2013 Q1 avoided cost quarterly
20 update that was filed with the Utah Public Service Commission
21 on April 16, 2013.

22 Q. Can you show us where in there we could find data
23 on monthly high load hour and low load hour?

24 A. Yes. So I don't--I don't see it broken out into heavy
25 load and light load in this document.

1 Q. Thank you. So how do we get that information,
2 then?

3 A. You ask the Company and we provide it.

4 Q. And when you provide it, we asked last time--last
5 year when we asked the Company to provide that information,
6 they gave it to us. And are you aware that the information was
7 incorrect?

8 A. I'm not familiar with the specifics of that.

9 Q. I'll take that--I don't mean to have an answer there.
10 I'll take that up with Mr. Clements.

11 But let me ask you: How can we verify--
12 when you get the avoided cost and you extract from that our
13 costs per month hourly, what kind of information can we get from
14 you to verify the way you have extracted those monthly, hourly
15 prices?

16 A. I presume you're--you're asking how we extracted
17 them from the GRID model? Is that what you're asking?

18 Q. Yes. How can we verify what you've done? What
19 you did last time was unknown to us and we wound up with
20 errors and we--I don't mean to testify, but it's on the record in
21 the last docket that we filed to approve the Kennecott/Tesoro
22 contracts. So we were trying to avoid that. And we want to be
23 able to verify the Company's distribution of the avoided costs
24 into month and hours and I'm asking you: How can we
25 independently verify how you do those calculations?

1 A. I--the results of the GRID model are hourly. We
2 could certainly work through that with our customers if that's
3 their particular desire. And it--you know, I'm sure we're happy to
4 work with Kennecott and Tesoro to answer their questions so
5 they can be satisfied that they understand that we did what we
6 said we did.

7 Q. If we had a working model of GRID, would we be
8 able to duplicate the way the Company extracts the monthly
9 high-load and low-load hours?

10 A. I'm not sure if GRID alone would do that or if
11 spreadsheets to take the output of GRID on top of that would be
12 required, but it's certainly information we could provide to the
13 customer.

14 Q. Well, is the Company willing to work with us so that
15 we can independently verify the way the Company distributes
16 those avoided costs into months and hours?

17 A. Yes, we are.

18 Q. Are you aware that Kennecott and Tesoro contracts
19 are renegotiated and renewed annually?

20 A. That has been the pattern over the last several
21 years.

22 Q. And that those contracts must be approved by the
23 Commission?

24 A. That's right.

25 Q. So that we are under some kind of time constraint to

1 have those contracts approved by the end of the year. Is that
2 your understanding?

3 A. That's my understanding under the current
4 schedule, but Tesoro and Kennecott could opt for multiyear
5 agreements, but they don't. They have--at least have not
6 historically done that. They've opted for annual contracts to be
7 reviewed each year.

8 Q. And it's their prerogative to do so?

9 A. Absolutely.

10 Q. Thank you. But in doing so, and having to go
11 through a tedious verification of the Company's calculations and
12 get the contract before the Commission, the information that the
13 Company provides to us must be timely provided. In those
14 circumstances, do you think that the kind of time frames that
15 have been suggested by Mr. Brubaker are unreasonable?

16 A. So I haven't really studied the types of time frames
17 that Mr. Brubaker's proposed. Like I said, we'd certainly be
18 willing to work with Tesoro and Kennecott. I would note that this
19 is a--
20 avoided cost proceeding, their contracts are for nonrenewable
21 QFs. So again, kind of goes beyond the issues that were
22 identified as the issues in this proceeding.

23 MR. EVANS: All right, then. We'll leave it there.

24 Thank you.

25 THE WITNESS: You're welcome.

1 THE HEARING OFFICER: Redirect?

2 MS. HOGLE: I don't have any.

3 THE HEARING OFFICER: All right. Thank you. I
4 have a few questions, Mr. Duvall.

5 THE WITNESS: Okay.

6 EXAMINATION

7 BY-THE HEARING OFFICER:

8 Q. I'd like you first to address the context of an IRP
9 least-cost/least-risk plan that contains cost-effective renewable
10 resources. What method would you recommend in that situation?

11 A. Well, I've noticed other parties have identified--have
12 identified that issue. We have--we have addressed that in some
13 of our other states where we actually have--instead of having the
14 deferrable resource be a combined combustion turbine and
15 worrying about what the capacity contribution of the different
16 resources are, we've had that avoidable resource be a wind
17 plant, which is typically the QFs that we get.

18 And so if you're displacing a like resource, you
19 know, a QF that's a wind plant, and you're displacing a wind
20 plant that's in the IRP, then you don't have any issues with
21 capacity contribution so we've done that. And it looks like others
22 have recommended that and we certainly--if there were cost
23 effective renewables in the IRP, that would be a reasonable way
24 to go.

25 Q. Thank you. Now, with regard to avoided cost

1 treatment of planned resources that are not in the
2 least-cost/least-risk plan, is it the Company's proposal to exclude
3 such resources in simulating Company operations in GRID or
4 determination of avoided costs in the Proxy/PDDRR method?

5 A. I'm not sure I understand your question. So
6 excluding resources that are not in the preferred portfolio?

7 Q. Right.

8 A. Like, say, geothermal or solar or--

9 Q. Right, or resources that are--are in the plan to
10 satisfy RPS standards in other jurisdictions, for example.

11 A. Yeah, it's kind of a new--new issue that's come up
12 with the current situation. That's never been a situation we had.
13 So I think it's a--it seems--the issue is, would you--do you pay a
14 QF for a non-cost-effective resource? because you're--
15 it's not--you know, it's not cost effective on its own, it's only
16 being added to meet RPS requirements so that would mean you
17 would pay the QF something higher than what a cost effective
18 resource would be and that certainly gives us consternation.

19 Q. How would the 2010 protocol address this situation?

20 A. I believe the way the 2010 protocol is laid out is that
21 the--there's--there's state resources and then there's--I have to
22 look at that--I think there's a couple of ways to approach that. I
23 know that the Commission has noted in--I think it was the Blue
24 Mountain order that one of the ways to address that would be
25 that you initially assign all the cost--allocate all the cost to all

1 the states, and then you assign the costs that are above the cost
2 of a comparable resource to the state that caused--
3 that has the RPS requirement.

4 I think the issue of then what do you do with the the
5 RECs is--I'm not sure how that would fall out. And certainly we'll
6 be discussing that in the MSP forum that we have going that's to
7 replace the 2010 protocol.

8 Q. I think it's your testimony that the Company would
9 exclude those types of resources--
10 that is, resources that are in the plan to satisfy RPS in other
11 jurisdictions. You'd exclude those from avoided cost calculations
12 or from the Proxy/PDDRR method? Do I have that correct?

13 A. Yeah. My testimony is that we would not set
14 avoided costs on those. As long as you're using a combined
15 cycle combustion turbine, it's irrelevant.

16 Q. Would you take the same approach with those types
17 of resources in GRID runs for rate cases or for EPA
18 proceedings?

19 A. Yeah, so they--they are going to occur after the
20 expiration of the 2010 protocol, so we're not going to have any in
21 the near term, so the issue is beyond--beyond the end of the
22 2010 protocol, so we will be definitely addressing those. They're
23 teed up with the MSP group and it's not an easy issue. We don't
24 have an answer at this point.

25 Q. Regarding front office transactions during--during

1 the period of sufficiency, does the Company allocate those
2 between capacity, energy, and if so, how?

3 A. No, we do not. They're all included in purchase
4 power. They're allocated in the 2010 protocol on the SG, factor
5 which is the system generation factor. So it's 75 percent
6 capacity, 25 percent energy is the way the factor's built.

7 Q. Does the--would the Company have a view relative
8 to a particular front office transaction of whether or not the price
9 represents energy or capacity or both and if so, what the
10 allocation would be?

11 A. Yeah, a front office transaction--
12 transaction is a firm purchase. So you're getting both capacity
13 and energy. I don't know what the split out is. We--we had done
14 GRID-- the GRID studies in the PDDRR method. We've--we've
15 allowed the QF to displace the front office transactions. That
16 makes, you know, a slight difference in the price. You know, you
17 could take that amount and call it capacity. If you wanted to
18 make a separate capacity charge during that, you'd have to take
19 something out of the dollar-per-megawatt-hour charge that's
20 calculated by GRID. So whatever you assign to a capacity
21 payment, it would be a zero sum gain. Whatever you put the
22 capacity payment, you have to reduce the energy payment.

23 Q. Thank you. How often and when should the
24 Commission determine the Company's likely planned IRP
25 resources and identify cost effective and non-cost-effective

1 resources? Is that--should that be on a two-year IRP cycle or
2 something different? How--what's the Company's view of the
3 process for--of continuing to examine those issues?

4 A. Well, the current process is the two-year IRP cycle
5 with the update in between. I think the--
6 you know, the--once the Company files a plan, you know, the
7 Company believed that's its plan, of course, we have a process
8 that goes beyond that where you get Commission
9 acknowledgment from the different states. And there's always
10 the tension between, you know, should we use it before as
11 acknowledged or should we wait until acknowledgment. And
12 that's--those are tough decisions. We think it should be used as
13 soon as it's available. And if there's any--any particular issue on
14 that, whether there's--you know, needs to be addressed sooner
15 because of these sorts of, you know, issues we have in lawyer
16 costs, but maybe there would be a way to do that.

17 Q. And then when there's an update, would this then
18 supersede and with the updated information, become the
19 relevant information for these purposes at that point in time?

20 A. Yes, it would.

21 And we--in this last year, we had the September
22 2012 resource need assessment that we produced in the context
23 of the All Source RFP, and we incorporated that. So that was
24 sort of a--you know, it wasn't the every-two-year IRP. It was the
25 IRP update, but it was a--we had a new load forecast we had--we

1 determined that we didn't need the 2016 resource. And we
2 reflected that in our avoided costs as well.

3 Q. Now a question about capacity value of a renewable
4 QF when there's no cost effective renewable resource in the IRP.
5 I have in mind your exceedance method, I'll call it. And I'd like
6 you to give the Commission your perspective on Mr. Millsap's
7 method, where the actual value of the QF determined on the
8 base of a 12 X 24 expected output matrix would be used. Is that
9 a viable approach? What's your sense of that?

10 A. No. In fact, in the--in the 2005 order, the
11 Commission adopted the capacity factor during heavy load
12 Hours, which was somewhere around 35 percent. But the
13 capacity--and if you compare that to our exceedance study, you
14 know, basically if you look at all the hours of heavy load hour,
15 which are--it's 6--6 days a week, 16 hours a day--
16 that the availability of the wind, on average, during those time
17 frames is a lot higher than the availability of wind at the time of
18 system peak, which is really--you know, as I've, I think, said
19 several times, that's what we really need in order to be able to
20 avoid a CCCT. And you really need to line up what you're paying
21 a QF with what they're avoiding. If you use a--something like--I
22 think what you said the 12 X 24, it does not capture the
23 contribution at the time of system peak. It's an average over a
24 larger period of time.

25 Q. So it's not that it captures the peak and other data.

1 It's that it doesn't--I think this is what you're telling me, it doesn't
2 capture the capacity requirements system peak?

3 A. Yeah, and if you--if you use that and you say: Well,
4 there's a--you know, maybe a 35 percent contribution and you're
5 planning on displacing--
6 you know, for a 100-megawatt wind plant, displacing 35
7 megawatts at the CCCT, but in actuality, you can only displace 4
8 megs at the time of system peak. You've really created a
9 situation where you changed how you're looking at the reliability
10 of how you meet your peak load.

11 THE HEARING OFFICER: Thank you. That's all my
12 questions.

13 Chairman?

14 CHAIRMAN ALLEN: Thank you, Commissioner
15 Clark.

16 EXAMINATION

17 BY-CHAIRMAN ALLEN:

18 Q. I have a couple of questions regarding solar
19 integration costs, Mr. Duvall. Given that we're in an interesting
20 position of having to make a decision about solar integration
21 costs but we have testimony that indicates there's a lack of
22 specificity, at least when it comes to solar, I'm wondering how
23 the Company feels, and others probably later in the day, what
24 would be the advantages or disadvantages if we just deferred a
25 decision on that until we have more data?

1 A. From a practical standpoint, probably very little.
2 From a--because, you know, I don't--I don't know--you know, at
3 this point, I think it's--the facts are, we don't have any solar
4 under Schedule 38. I don't know if we'll add some. I suppose if
5 we start adding them, it will be a bigger issue. But, you know, I
6 think as long as it had no precedential value carrying on to IRP
7 or any other forums, then it would be less of a concern to the
8 Company if we were to just wait.

9 Q. And when you use the wind number, which I believe
10 was four dollars and thirty-
11 something cents, earlier today, with a lack of data, what if we
12 decided that it was important to give the parties a decision on
13 solar integration, but we decided that--and this is just a question,
14 it isn't a decision--what if we decided we were going to start at
15 zero until we got proven up? What would be the effect on the
16 Company as far as the overall ratio of integration costs to the
17 overall avoided cost package? Would it be de minimus if it
18 started at zero? Would it be a substantial effect on the price, in
19 your view?

20 A. Well, the effect on the price would be the \$4.35. So
21 whether that makes or breaks a solar project under Schedule 37,
22 it really depends on a decision on all the other issues.

23 CHAIRMAN ALLEN: Okay. Great. That's fair.
24 Enough. Okay. I think that covers it. Thank you.

25 THE WITNESS: You're welcome.

1 THE HEARING OFFICER: Any questions based on
2 ours?

3 MS. HOGLE: No, your Honor. Thank you.

4 THE HEARING OFFICER: You're excused, Mr.
5 Duvall.

6 THE WITNESS: Thank you very much.

7 THE HEARING OFFICER: Why don't we call the
8 next witness, have him sworn, and--and your summary, and then
9 we'll adjourn for lunch. Is that fair?

10 MS. HOGLE: That sounds fair. Thank you,
11 Chairman--Commissioner. Excuse me.

12 The Company calls Mr. Paul Clements as our
13 second witness.

14 THE HEARING OFFICER: Please raise your right
15 hand. Do you solemnly swear that the testimony you're about to
16 give shall be the truth, the whole truth, and nothing but the truth?

17 THE WITNESS: Yes.

18 THE HEARING OFFICER: Thank you.

19 PAUL H. CLEMENTS, being first duly sworn, was
20 examined and testified as follows:

21 EXAMINATION

22 BY-MS.HOGLE:

23 Q. Good afternoon, Mr. Clements.

24 A. Good afternoon--morning.

25 Q. Can you please state your name and position with

1 Rocky Mountain Power?

2 A. Yes. My name is Paul H. Clements. I'm a senior
3 power marketer for PacifiCorp.

4 Q. And in that capacity, did you prepare direct and
5 rebuttal testimony in support of the Company's application in this
6 case, including exhibits?

7 A. Yes, I did.

8 Q. And do you have any changes to either of those
9 pieces of testimony?

10 A. I do not.

11 Q. So if I were to ask you the questions and your
12 testimony again here today, your answers would be the same?

13 A. Yes, they would.

14 MS. HOGLE: The Company moves for the
15 admission into--into the record of Mr. Paul Clements's direct and
16 rebuttal testimony with attached exhibits.

17 THE HEARING OFFICER: Any objections?

18 They're received.

19 BY MS. HOGLE:

20 Q. Do you have a summary to go through this morning
21 for the Commission?

22 A. I do.

23 Q. Please proceed.

24 A. Thank you. Good morning, Chairman Allen,
25 Commissioner Clark, and Commissioner LaVar. I filed two

1 pieces of testimony in this docket, direct and rebuttal. And my
2 testimony focused on the issue of renewable energy credit
3 ownership as it pertains to large QFs. Renewable energy credit
4 is often referred to as RECs or green tags. I think most parties
5 in this docket refer to them as RECs.

6 I recommend that RECs from QFs go to the
7 Company and its customers. I further recommend that any power
8 purchase agreement between the Company and the QF contain
9 specific contract terms and conditions that implement that policy.

10 One item I address in my testimony is the issue of
11 authority, answering the question who has the authority to
12 determine which counter party owns the REC and QF contract.
13 That answer has been clearly established by FERC. In the
14 American Ref-Fuel case, FERC determined that states, in
15 creating RECs, have the power to determine who owns the RECs
16 in the initial instance.

17 Now, that term initial instance is a key term. And
18 that means the instance in which they're first created. And so the
19 issue of ownership is not one person taking it from another
20 person. The issue of ownership is when the REC is created, who
21 does it go to?

22 FERC solidifies its position on that issue by stating
23 clearly that REC ownership--and here's a direct quote from that
24 particular order--is not an issue controlled by PURPA, end quote.

25 Some parties have argued that the Company's

1 recommendation is not consistent with PURPA. This is simply
2 not true. PURPA does not dictate who owns RECs from QFs.

3 Now that we have resolved the issue of authority, I
4 will turn to policy. My testimony demonstrates that it is good
5 policy for the State of Utah to adopt the Company's
6 recommendation that the Company and its customers own the
7 RECs in QF transactions. Section 210 of PURPA requires the
8 utility to buy from renewable generation sources. A utility must
9 purchase from this type of QF resource solely because of the
10 fact that it is renewable. The renewable attribute of the resource
11 creates the purchase obligation. If the resource were not
12 renewable, no purchase obligation would exist under PURPA.

13 The REC is used to identify that the energy
14 generated from a renewable resource came from a resource that
15 was indeed renewable. The REC represents the renewable
16 attribute. Therefore, if the Company and its customers own the
17 purchase obligation because the resource is renewable, the
18 Company and its customers should also own the characteristic
19 that defines the resource as renewable, which is the REC.

20 It is good policy to maintain a connection between
21 the purchase obligation and the very attribute that creates that
22 purchase obligation. This connection is established by
23 conveying the RECs to the Company and its customers in QF
24 contracts. If the Company does not own the RECs in QF
25 contracts, it is not receiving the very attribute that enabled the

1 resource to achieve its QF status and to obligate the utility to
2 purchase its output. This connection between the purchase
3 obligation and the attribute that creates the purchase obligation
4 should not be broken.

5 And that concludes my summary. Thank you.

6 THE HEARING OFFICER: Thank you. We'll be in
7 recess until 1:00.

8 (Luncheon recess taken, 11:59 a.m.-1:02 p.m.)

9 THE HEARING OFFICER: On the record.

10 Before we continue with cross-examination of Mr.
11 Clements, on the matter of briefs, Commission desires to provide
12 the parties an opportunity to brief. We would like the briefs to be
13 brief. Is a 10-page limit reasonable? What--15? Just--I think we
14 ought to have a page limit, I think would help. And what we'd
15 like it to be basically is a written closing statement, whatever
16 each party feels would help the Commission understand that
17 party's position best. And we recognize that positions have
18 evolved as the rounds of testimony have been filed. We
19 assumed that there may be some more evolution during the
20 hearing, that parties may find certain positions more acceptable
21 or less as they've been clarified through the testimony today.
22 And so that's one of the primary reasons that we're--we are
23 seeking briefs and think it's a helpful recommendation. But do
24 you have a sense of the--
25 of how many pages are required to accomplish that? Is ten too

1 restrictive?

2 MS. HOGLE: I would actually suggest that we do at
3 least 15 at a minimum, only because from the Company's
4 perspective, we want to include all of the issues. And so maybe
5 some of the issues don't matter to other parties, but they
6 certainly do matter to the Company.

7 THE HEARING OFFICER: So is 15 enough? I'm not
8 trying to compel that. I think--we want to make sure it's
9 adequate, but--but we want you to be concise.

10 MS. HOGLE: So long as you don't penalize me for
11 20, 15 to 20, you know.

12 THE HEARING OFFICER: All right. So we'll set a
13 20-page limit that'll apply to everybody. Unless there's some
14 objection to that, that's what we'll do.

15 Mr. McDonough.

16 MR. McDONOUGH: I think that's a little bit
17 excessive. But if that's what the Company needs, I suppose, if
18 we can make that inclusive of a background and statement of
19 facts and everything cover to cover in 20 pages, I think--I think
20 your recommendation of 10 to 15 was prudent.

21 THE HEARING OFFICER: Well, I do mean
22 inclusive. No preliminary pages that aren't numbered are
23 numbered in, you know, Roman numerals, that kind of thing.

24 MS. HOGLE: No table of authorities.

25 THE HEARING OFFICER: Right. You can include

1 one, but it gets a page number.

2 MS. HOGLE: Thank you for that, Commissioners.

3 MR. McDONOUGH: Commissioner, when do you
4 propose that these be due?

5 THE HEARING OFFICER: That was my next
6 question. We want to be reasonable and yet we want to be
7 expeditious. Is--is 10 days reasonable, 14 days? What--I think
8 we'd like not to see it extend beyond two weeks. So is that an
9 adequate amount of time?

10 MR. McDONOUGH: Let's make it equivalent to the
11 number of pages we're allowing.

12 MS. HOGLE: I apologize--go ahead, Trish.

13 MS. SCHMID: If we're going to include things from
14 the hearing, it might be helpful if we have a transcript, and that
15 takes approximately two weeks, I believe.

16 MS. HOGLE: And the Company would be willing to
17 expedite that, or facilitate--expedite that.

18 THE HEARING OFFICER: Does that mean paying
19 for an expedited record of this proceeding?

20 MS. HOGLE: Yes.

21 THE HEARING OFFICER: Just so I'm clear.

22 MS. HOGLE: Since it's our recommendation, yes.

23 THE HEARING OFFICER: All right. So that means
24 we can have a turnaround in a couple of days, I think.

25 Let's go off the record.

1 (A discussion was held off the record.)

2 THE HEARING OFFICER: So let's assume we'll
3 have transcripts available by Wednesday.

4 Let's go on the record.

5 So we've been informed the transcripts would be
6 available by Wednesday under the expedited process that the
7 Company will afford. If that's the case, is 14 days, then,
8 something that's acceptable?

9 MS. HOGLE: It is for Rocky Mountain Power.

10 MS. SCHMID: And for the Division.

11 MR. McDONOUGH: Certainly.

12 THE HEARING OFFICER: Thank you. Then 14
13 days, 20 pages. And again, your . . .

14 MR. DODGE: So--

15 MR. EVANS: To clarify, that would be June 26th, 14
16 days from next Wednesday?

17 THE HEARING OFFICER: That's--I don't have a
18 calendar in front of me, but let's have the date certain there.

19 Let's say Thursday, the 27th. Is that all right?

20 Okay.

21 Any other questions about briefs?

22 One other thing: Before we continue, Mr. Vrba and
23 Mr. Millsap, are either of you here? Both here. And you're
24 intending to take the witness stand and present your testimony or
25 not? That's--that's--

1 MR. MILLSAP: I'm not intending to, unless
2 someone speaks about something. And I'm not intending to ask
3 questions.

4 THE HEARING OFFICER: Or for the Commission to
5 receive your testimony in evidence, you'll need to be sworn and
6 you'll need to be subject to cross-examination at least.

7 MR. MILLSAP: Oh, I can do that.

8 THE HEARING OFFICER: And Mr. Vrba, what is
9 your intention?

10 MR. VRBA: It would be the same, yes.

11 THE HEARING OFFICER: All right, thank you.

12 MS. HOGLE: Commissioner, one other thing, my
13 client did go back and check with his staff about the charge for
14 solar integration, and he confirmed that we do include it in--the
15 Company does include a charge of \$4.35 for solar integration in
16 the pricing.

17 MR. SIMON: I'm sorry. How much was that? May I
18 inquire from the bench, the amount again?

19 MS. HOGLE: I believe it's the same as the wind
20 integration charge, \$4.35.

21 MR. SIMON: That's what you--I'm sorry. Inquire to
22 the bench again: That's what you're currently assessing?

23 MS. HOGLE: That's what we include in indicative
24 pricing to QFs.

25 MR. SIMON: At the current time?

1 MS. HOGLE: Yes.

2 MR. SIMON: Thank you.

3 THE HEARING OFFICER: Anything further before
4 we continue with Mr. Clements?

5 Thank you. Ms. Schmid--unless there was anything
6 further.

7 MS. HOGLE: That's all I have. Thank you.

8 MS. SCHMID: The Division has no questions for
9 this witness.

10 MR. McDONOUGH: The Office has no questions.

11 MS. HAYES: I just have a couple of questions.

12 EXAMINATION

13 BY-MS.HAYES:

14 Q. Good afternoon, Mr. Clements.

15 A. Good afternoon.

16 Q. And I apologize about my voice, if it goes in and
17 out. Do you acknowledge that one of the explicit purposes of
18 PURPA is to encourage small power production?

19 A. Yes, that's correct.

20 Q. Are you aware also that Utah statute explains--and
21 I--I'm hesitant to approach the witness because I'm sick, so--so
22 I--

23 A. I have five children. If you want to come up . . .

24 Q. All right.

25 MR. DODGE: May I approach?

1 THE HEARING OFFICER: Yeah, sure.

2 MR. DODGE: I'm not sick.

3 MR. DUVALL: Yet.

4 MS. HAYES: Thank you, Mr. Dodge.

5 BY MS. HAYES:

6 Q. Would you mind reading 54-12-1(2), Legislative
7 Policy?

8 A. Where it begins, "It is the policy of this state"?

9 Q. Yes.

10 A. "It is the policy of this state to encourage the
11 development of independent and qualifying power production and
12 cogeneration facilities, to promote a diverse array of economical
13 and permanently sustainable energy resources in an
14 environmentally acceptable manner, and to conserve our finite
15 and expensive energy resources and to provide for their most
16 efficient and economic utilization."

17 Q. Thank you. Do you acknowledge that allowing a
18 renewable energy developer to retain the RECs would help
19 encourage renewable and qualifying facility development?

20 A. I don't know.

21 Q. May it?

22 A. It may.

23 Q. Is it true that PURPA allows nonrenewable
24 cogeneration facilities to qualify as QFs?

25 A. Yes, that's correct.

1 Q. And under the Company's proposal, a nonrenewable
2 cogeneration qualifying facility and renewable qualifying facility
3 would get the same price subject to the adjustments that are
4 made, but the methodology is the same for both of them?

5 A. Yes. And the reason for that is because PURPA
6 requires that. PURPA is addressing the capacity and the energy,
7 and it's explicit in PURPA that you do not discriminate between
8 resource type, and so that's why they'd get the same payment,
9 yes.

10 Q. But do you acknowledge that if the Company were
11 to retain the RECs that it would be acquiring something in
12 addition to the energy and capacity?

13 A. Not under PURPA, no.

14 Q. But regardless of PURPA, would it--
15 would the Company be receiving some--something, some value,
16 some benefit from the RECs that are not energy and capacity?

17 A. Well, I think you're asking if--if there are two
18 contracts--one with a renewable, one with a nonrenewable-- and
19 the one with the renewable has RECs that go to the Company,
20 well, then yes. A nonrenewable QF does not generate RECs.

21 Q. And so it's your argument that that is not
22 discriminatory? Where one nonrenewable QF conveys energy
23 and capacity without RECs for a price and the renewable facility
24 conveys energy and capacity and RECs for that same price, it's
25 your position that that's not discrimination against one of the

1 QFs?

2 A. That--that is my position in terms of how
3 discrimination is defined in PURPA. It's a very narrow definition
4 that you should not discriminate on resource type for payment on
5 capacity and energy. As stated in my summary and my
6 testimony, PURPA is silent on the issue of RECs. It does not
7 address RECs. And so our proposal is not discriminatory,
8 because we propose that for capacity and energy, the same price
9 is paid to renewables and nonrenewables.

10 Q. And so you're proposing to get the RECs for free?

11 A. I'm proposing that the Commission make the
12 determination that the RECs are owned by the Company.

13 MS. HAYES: No further questions.

14 MR. DODGE: I have no questions.

15 THE HEARING OFFICER: Mr. Simon.

16 EXAMINATION

17 BY-MR.SIMON:

18 Q. Good afternoon, Mr. Clements. My name is Dan
19 Simon. I represent Scatec North America.

20 A. Good afternoon.

21 Q. Is it your position that the State of Utah should do
22 away with the unbundling of RECs in all circumstances?

23 A. No.

24 Q. PURPA is a federal statute, right?

25 A. That's correct.

1 Q. And it's kind of a funny statute, right?

2 A. I don't know how you're classifying . . .

3 Q. I mean, it's--you have FERC as a federal agency
4 implementing regulations giving the guidance of how it's
5 supposed to be implemented, correct?

6 A. Well, I think FERC does a very good job of defining
7 what PURPA is intended to cover and what regulations that they
8 enforce and what regulations and decisions are left to the states.

9 Q. Right. And one of the principles of that is, states
10 can't do anything that conflict with FERC's findings in terms of
11 how to implement PURPA; is that correct?

12 A. I believe that part of it--part of PURPA states that
13 the states cannot do anything that's contrary to the laws
14 implemented by PURPA.

15 Q. I'm not sure I have a clear understanding of your
16 answer, though. Let me ask it a different way. Is it okay for the
17 state of Utah to implement PURPA in a way that's inconsistent
18 with FERC's regulations and orders?

19 A. I don't believe so, no.

20 Q. Okay. Thank you. Now, it's your position that
21 states have the power to--to determine how RECs are sold or
22 traded, correct?

23 A. That's correct, yes.

24 Q. Okay. And in your testimony, you cite to a couple of
25 the American Ref-Fuel Company orders by FERC, correct?

1 A. Yes.

2 Q. Have you read those orders in full?

3 A. Perhaps not in full, but significant portions of them,
4 yes.

5 Q. Okay. So let me ask you a little more about that. So
6 someone is handed these orders to you or you found them on the
7 Internet or--let me strike that. How did you come across these
8 orders?

9 A. These orders that I've reviewed with our internal
10 team, our legal team, and we've reviewed the context of them
11 and I've read significant portions of them as well.

12 Q. So--but did you read the entire orders from cover to
13 cover?

14 A. Most likely no, not from cover to cover for all of
15 them, no.

16 Q. And what methodology did you use to determine
17 what parts of the FERC orders you wanted to read and which you
18 wanted to ignore?

19 A. Well, in preparing for this hearing, as I have for
20 every other hearing, we get together with our legal team, we
21 discuss the topics that will be discussed, and we pull together
22 the pertinent legal cases. And they assist in preparing the
23 information that we should review and then I review it with the
24 legal team.

25 Q. Okay. Were you instructed to ignore portions of the

1 FERC orders here?

2 A. No, I was not.

3 Q. I assume PacifiCorp strives to try to comply with
4 FERC orders as best they can?

5 A. Yes, we do.

6 MR. SIMON: Okay. I'm sorry. At this time, we'd
7 like to ask permission to approach the witness to provide a copy
8 of one of the orders we've been discussing. I don't know if it's
9 appropriate to provide copies to everybody or to mark it as an
10 exhibit. However the commissioners feel is the best way to
11 approach it, I'm happy to follow.

12 THE HEARING OFFICER: Do you have enough
13 copies for all the counsel present?

14 MR. SIMON: On this one, I believe we do.

15 THE HEARING OFFICER: Let's distribute it to
16 everybody. We'll mark it as a cross-examination exhibit.

17 MR. SIMON: Thank you. We'll go ahead and mark
18 it as Scatec Cross-Examination Exhibit No. 2. I believe we-- it's
19 marked 1--as Exhibit 1 before, but that's not yet been admitted
20 into evidence.

21 THE HEARING OFFICER: All right. For the record,
22 that's--the first one is entitled "Appendix A, PacifiCorp Avoided
23 GRID and Differential Revenue Requirement Model Updates
24 through March 2013.

25 MR. SIMON: That's correct. Thank you.

1 BY MR. SIMON:

2 Q. Mr. Clements, did we just hand to you one of the
3 American Ref-Fuel Company FERC orders that we were just
4 discussing?

5 A. Yes, I believe what you handed me was the
6 order--yes, the order denying the rehearing, yes.

7 Q. So--so there's actually two American Ref-Fuel
8 Company orders that people tend to discuss on this topic, right?

9 A. That's correct, yes.

10 Q. And this would be the second one of the two,
11 correct?

12 A. Yes.

13 Q. The more recent one, correct?

14 A. If you're referring that the order for rehearing was
15 subsequent to the declaratory order, then, yes, it would be more
16 recent.

17 Q. Thank you.

18 A. Assuming that's the second one you're referring to.

19 Q. Yes, sir.

20 A. Okay.

21 Q. All right. So if you could bear with me, on page 1 of
22 the order, after paragraph No. 1 there's a section labeled
23 "Background," correct?

24 A. That's correct.

25 Q. Okay. Let's skip ahead to page 3 of the copy of the

1 order we provided you. I guess about two-thirds of the way down
2 there's a section titled "Discussion." Do you see that?

3 A. I do.

4 Q. Okay. And would you agree with me that the
5 "Discussion" section is the section in which FERC provides its
6 ruling in the case?

7 A. Typically, yes.

8 Q. Do you have reason--any reason to believe that's
9 not the case here?

10 A. I do not.

11 Q. Did you read the entire "Discussion" section before
12 today?

13 A. In this particular order, yes, I did.

14 Q. Okay. Let me turn your attention to paragraph 15.
15 Let me have you skip down to--
16 there's a first sentence, second sentence, and then a third
17 sentence. Are you with me so far?

18 A. At the sentence beginning, "In this regard"?

19 Q. Yes, sir.

20 A. Okay.

21 Q. And that sentence says, "In this regard, the avoided
22 costs that a utility pays a QF does not depend on the type of QF,
23 i.e., whether it is a fossil-fuel-fired cogeneration facility or a
24 renewable-energy-fired small power production facility." Is that
25 what it says?

1 A. That is what it says.

2 Q. And so what it means there is that the Commission
3 is not distinguishing between whether the energy price being
4 paid covers renewable attributes beyond that because it's the
5 same for both the cogen and a renewable energy project; is that
6 accurate?

7 A. Could you repeat that question?

8 Q. I'll tell you what. Let's move ahead and maybe
9 come back to that. So why don't we skip down to the last
10 sentence in that paragraph--or the last two sentences. It says
11 here, "Both are priced based on a purchasing utility's avoided
12 costs. The Commission thus reasonably concluded that avoided
13 cost rates are not intended to compensate the QF for more than
14 capacity and energy." Was that what it says?

15 A. That is what it says, yes.

16 Q. So in other words, what FERC is saying here is that
17 the avoided cost rate is based just on the energy and capacity
18 and does not take into account the renewable attributes of a QF
19 project; is that correct?

20 A. Well, if you're looking at this entire case, these
21 particular petitioners approached FERC and said if the contract
22 is silent on the issue of REC ownership, we want to be certain
23 that the RECs do not automatically go to the utility. That was
24 the issue before FERC. And if you were to review the order
25 granting petition for declaratory order, the first order of the two

1 that he referenced, the bulk of the discussion was around the
2 fact that, yes, PURPA is intended to cover the energy and the
3 capacity payment only.

4 And there are several instances in that order--it's an
5 October 1, 2003 order--in which FERC specifically states the
6 issue of REC ownership is not covered by PURPA, it's not
7 something they are addressing. RECs are created by the states,
8 and the states can address the issue of REC ownership. So it
9 wasn't so much making an determination on REC ownership as it
10 was saying the avoided costs are pertinent to capacity and
11 energy only and the issue of REC ownership goes to the states.

12 Q. I don't believe you answered my question there.
13 So--so although the earlier order and this order both
14 acknowledge that state law can determine some basic
15 parameters of REC ownership, FERC, in these orders, provided
16 some limitations on them; isn't that true?

17 A. No, I don't agree.

18 Q. Okay. So turn with me to paragraph 16. Could you
19 please read that paragraph in full for me?

20 A. "If avoided costs are not intended to compensate a
21 QF for more than capacity and energy, it follows that other
22 attributes associated with the facility are separate from, and may
23 be sold separately from, the capacity and energy." Keep going.

24 Q. Yes, please.

25 A. "Indeed, states in creating RECs that are unbundled

1 and tradable have recognized this. The very fact that RECs may
2 be unbundled and traded under state law indicates that the
3 environmental attributes do not inherently convey pursuant to an
4 avoided cost contract the purchasing utility."

5 Q. So in that last sentence, would you agree with me
6 that FERC is saying that to the extent that a state has unbundled
7 RECs, the RECs do not automatically convey with the power sold
8 through a QF contract?

9 A. I don't believe FERC's making a judgment or a
10 ruling there. They're just saying if you read that sentence again,
11 the very fact that RECs may be unbundled and may be traded
12 under state law provides an indication. I don't believe that was
13 an actual ruling.

14 Q. But what do you think they mean by, "do not
15 inherently convey"?

16 A. And again, this gets back to my response to your
17 other question, that these petitioners were saying that the
18 contract is silent. And this is actually very similar to a
19 Cottonwood Hydro case that was before this Commission where
20 the contract was silent on the issue of REC ownership. And the
21 petitioner said: If the contract is silent, I would like this agency,
22 FERC, or this Commission, to rule that the RECs do not
23 automatically go to the utility. So it wasn't necessarily a policy
24 decision they were setting here. It was a contract decision.

25 And this gets back to my testimony and the

1 Company's position in that when a REC is created, it is up to the
2 state to determine who owns that REC. So the REC is not being
3 taken from one person and given to another. It is upon creation
4 of this REC, who does it go to. So I feel that the Company's
5 position is consistent with this order and consistent with PURPA.

6 Q. Would you agree with me the state's already
7 recognized that RECs can be unbundled?

8 A. Yes, the state has, that's correct.

9 Q. Including within the Utah statute enacted by the
10 state legislature?

11 A. Yes, absolutely. But the fact that the RECs can be
12 unbundled doesn't mean they can't be rebundled in a QF
13 contract. It's not prohibitive in that nature.

14 Q. Are you an attorney?

15 A. I'm not an attorney, no.

16 Q. I'd like to change subjects for just a minute. Were
17 you in the room when the cross-examination took place of your
18 colleague, Mr. Duvall?

19 A. I was, yes.

20 Q. Earlier this morning, we had marked as an exhibit
21 Scatec Cross-Examination Exhibit No. 1. We had provided some
22 copies. We do have additional copies now for everyone who did
23 not get one earlier.

24 Permission to approach the witness to provide this?

25 THE HEARING OFFICER: Yes.

1 BY MR. EVANS:

2 Q. Mr. Clements, the document you've just been
3 handed is labeled, "Appendix A, PacifiCorp Avoided Cost GRID
4 and Differential Revenue Requirement Model Updates Through
5 March 2013," Case No. 03-035-14; is that correct?

6 A. That is correct, yes.

7 Q. And would you agree with me this was a part of the
8 Company's avoidance cost file that it makes on a quarterly
9 basis?

10 A. Yes.

11 Q. Have you seen this document before?

12 A. I have seen this document, yes.

13 Q. Did you help play a role in creating it?

14 A. I did not.

15 Q. I'd like to turn your attention to the bottom of page
16 2. And in the bottom of page 2, there's a section titled, "IRP
17 Partial Displacements This Filing." Do you see that there?

18 A. Yes, I do.

19 Q. Okay. And below that it says: Base case thermal
20 partial displacement was 436.2 megawatt. Below are QFs that
21 have executed a power purchase agreement or are actively
22 negotiating for new power purchase agreement.

23 Is that correct?

24 A. That is correct.

25 Q. And below that there's--and that's referring to a

1 table below it that's got a list of QFs with a queue number
2 assigned to each one; is that correct?

3 A. That is correct.

4 Q. And so the first few queue numbers 1 through 6
5 refer to QFs that already have signed contracts with PacifiCorp;
6 is that correct?

7 A. That is correct.

8 Q. And then queue numbers 7 through 23 refer to QF
9 contracts that--excuse me--strike that. Queue numbers 7
10 through 23 refer to QFs that do not currently have signed
11 contracts with PacifiCorp; is that correct?

12 A. That is correct.

13 Q. Can you explain to me how a QF gets added to this
14 list, what event takes place for a QF to go from not being
15 included on this list to being added to this list?

16 A. When the QF makes an indicative pricing request
17 under one of the Company's tariffs, then they are added to the
18 list.

19 Q. And so with each QF on the list, the higher up in the
20 list you are--the higher up in the list a QF is, the earlier it
21 displaces the next generating unit or next resource in the IRP,
22 correct?

23 A. I think you'll--can you rephrase that question?

24 Q. I'll tell you what. Instead of me muddling it up, I'll
25 ask you an open-ended question. Explain to me the difference,

1 if--the different impact between a QF that's higher up in the
2 queue versus lower in the queue.

3 A. Well, the queue really dictates what resources are
4 avoiding in the GRID model. Since avoided costs are based on
5 marginal costs, the resource that is at the top of the queue will
6 avoid the highest cost resource. And then as you move down the
7 queue, you get to lower and lower cost resources.

8 Q. So I take it as a result, that the QFs that are higher
9 up in the queue would likely result in getting a higher avoided
10 cost rate; is that correct?

11 A. Typically, depending on the situation, it really
12 comes down to if you're so far down in the queue that you no
13 longer defer a resource, so you no longer get a capacity
14 payment, that's when the queue really impacts your price. If
15 we're talking about just an energy payment, your position in the
16 queue is not that significant. For example, if the avoided cost
17 resource is Lake Side power plant, for example, if we're avoiding
18 Lake Side, Lake Side is six hundred-and- some-odd megawatts,
19 so you have to move pretty far down Lake Side before you move
20 to the next resource type.

21 So if we're looking at energy only, queue position
22 has a marginal impact on price. If you're looking at capacity, it
23 could have a significant impact, yes.

24 Q. You talked about how a QF gets added to this list.
25 Explain to me how does a QF--how does PacifiCorp determine

1 whether to remove a QF from this queue?

2 A. If we deem that the QF is no longer actively
3 negotiating power purchase agreements or actively moving
4 forward in the QF process, then we remove them from the queue.

5 Q. So, for example, queue number 7, do you have any
6 sense of how long that one's been there on the queue?

7 A. I don't know which one that is by looking at this
8 table.

9 Q. Suppose a QF lower down in the queue is ready to
10 actually sign a long-term PPA with you under Schedule 38. Will
11 the Company, to the extent the queue position makes a
12 difference, refresh the indicative pricing to reflect the fact that
13 it's jumped above a QF that was otherwise higher up in the
14 queue?

15 A. No, we would not do that.

16 Q. And why not?

17 A. And I believe the parties discussed this as part of
18 the 2003 docket is my recollection. The reason we've done the
19 queue this way is we have many QF counter parties who need
20 the certainty of their pricing while they continue through the
21 negotiation of the power purchase agreement.

22 Let's take, for example, a combined heat and power
23 application, like a refinery. If they put in a pricing request and
24 we give them a price, they need to determine what their
25 economic options are. Do they sell under a QF contract? Do

1 they offset their retail load? They need to make some
2 determination as to how they're going operate that resource.
3 And they make that determination based on the indicative price.
4 Once they have that indicative price, they may make some
5 decisions around that as they arrange financing and staffing
6 levels, things of that nature.

7 So we manage the queue this way because we need
8 to provide some certainty to our customers that when they get a
9 indicative price, that price is going to be valid for a certain
10 amount of time while they continue with negotiation of a power
11 purchase agreement. And so we feel like that's a fair process for
12 everyone involved in the queue.

13 Q. But that also means at the end of the day when that
14 QF is ready to sign a contract, it's reflecting a rate that could be
15 lower than what they should have been getting base on the
16 resource they actually displace?

17 A. If the parties in front of them in the queue do not
18 end up executing power purchase agreements, that would be
19 correct.

20 MR. SIMON: Okay. Thank you. Thank you. I have
21 nothing further.

22 THE WITNESS: You're welcome.

23 THE HEARING OFFICER: Mr. Evans.

24 EXAMINATION

25 BY-MR.EVANS:

1 Q. Good afternoon, Mr. Clements.

2 A. Good afternoon.

3 Q. I'm sitting behind you, so I know it's some effort to
4 turn and look, but I do--I do really appreciate the contact when
5 I'm addressing questions--

6 A. Okay.

7 Q. --so thank you for facing my direction there.

8 I have--with permission of--of Rocky Mountain
9 Power counsel, I've--I want to ask you some questions about
10 information. I know you didn't file testimony on that, but as you
11 heard in my cross-examination of Mr. Duvall this morning, there
12 are a couple of things that maybe I need to go to you for answers
13 on, so if it would be all right, I'd like to start with--with that.

14 A. Certainly.

15 Q. You are the person, are you not, at PacifiCorp that
16 negotiates the QF contracts for Kennecott and Tesoro?

17 A. That's correct, yes.

18 Q. And you work with their representatives to come up
19 with these every year, it turns out, because we keep insisting on
20 these one-year agreements, right?

21 A. Every year.

22 Q. And as a result of this process--and it usually goes
23 very smoothly, but it seems like we had a little glitch last year on
24 it and we filed some prices with the Commission that were
25 incorrect; isn't that right?

1 A. I believe that's the case, yes.

2 Q. It's the case, isn't it?

3 A. Again, my recollection is, I believe that's the case.

4 Q. I'll read from the Commission's order in that--in that
5 docket, then, so you can recollect what the Commission said. As
6 to the smelter and refinery agreements, both the Division and the
7 Office commented on the need to correct errors in Exhibit E
8 pricing of both agreements. Do you recall that?

9 A. Yes.

10 Q. We had some errors in Exhibit E?

11 A. Yes.

12 Q. Do you recall how those errors came about?

13 A. They were a mathematical calculation that was done
14 outside of GRID that was incorrect. So a spreadsheet error,
15 essentially.

16 Q. Spreadsheet error?

17 A. Yeah.

18 Q. And when my clients asked for the backup for that
19 pricing, you were unable to produce it; isn't that right?

20 A. That--that I do not recall.

21 Q. You do not recall. Well, do you recall that we were
22 unable to verify those numbers before the contracts were filed
23 with the Commission?

24 A. That I don't know as well. We provided the GRID
25 model and--

1 Q. Yes, but these calculations were done outside of
2 GRID, you just testified?

3 A. Yes.

4 Q. Okay. So the GRID model would not have helped
5 us, would it?

6 A. The GRID model provided the basis for those
7 calculations and some calculations are done outside the GRID
8 model. And those calculations are primarily grouping. GRID
9 produces an hourly avoided cost and then when you take those
10 hourly avoided costs and move them to a monthly avoided cost
11 for an on-peak or an off-peak avoided cost. Some of those
12 calculations are performed outside of GRID.

13 Q. So in--you heard that Mr. Duvall was evidently very
14 eager and willing to give us the information that will let us verify
15 those kinds of calculations the next time this calculation must be
16 done, which is coming up pretty soon. If we make that request,
17 can you get us the information for those calculations even though
18 they're outside GRID?

19 A. Oh, absolutely.

20 Q. Can you show us how they're done and explain so
21 that we can verify?

22 A. Yes, the Company would certainly be willing to work
23 with you and--and wanted to do so last year as well.

24 Q. Right. And I think at the end of this little glitch in
25 our contracts, we have agreed that the Company would provide

1 certain information this time around, didn't we?

2 A. Yes. And we certainly intend to do so.

3 Q. Okay. And that would include the GRID runs and
4 the backup for the GRID runs, right?

5 A. Yes, we can provide all that information.

6 Q. And--and what the--what the operator has done to
7 GRID, what kind of assumptions it has made, what inputs it has
8 made to derive the avoided cost?

9 A. Whatever we typically provide with our GRID
10 request is what we would provide.

11 Q. And what I'm saying is that sometimes the typical
12 provision does not get us the calculations we need, so you will
13 work with us to get whatever calculations we need to verify?

14 A. Absolutely. We want to make sure you understand
15 your avoided cost and--on behalf of the Company, we apologize
16 if there was any confusion last year around that. My recollection
17 is, with one of your clients in particular, we were heavily involved
18 in negotiating the electric retail service agreement which was a
19 fairly complex negotiation. So most of my memory is around that
20 part of it as opposed to the QF. So I apologize for not recalling
21 all of--

22 Q. We appreciate that. And I know that we will get
23 past this and we'll have to renegotiate these this year. But let me
24 ask you about timing, too. By the time you provide us with
25 indicative pricing, you've already done the GRID runs, you've

1 already done the backup. You know what assumptions that have
2 been made. You know what the inputs are. And there should be
3 no delay in getting that to us. We should have it when you
4 deliver the indicative pricing, right?

5 A. We can do that if you request that, certainly, yes.

6 Q. We have requested that repeatedly, and that's what
7 we--that's, I think, what we expect if we're going--because we're
8 on a short fuse, as you understand. We have to get these done
9 quickly.

10 A. Yeah.

11 Q. So we do expect that, yes. Is this something the
12 Company can provide?

13 A. We certainly can provide that. And the Company's
14 position on that is some customers want that level of detail.
15 They want to get in the GRID model and actually pull levers and
16 things of that nature. Other customers have no desire to see
17 that information. And so if a customer wants that information, we
18 already have the obligation to provide it to them. If they don't,
19 we don't feel like it's a good use of Company resources to
20 provide that information when they have no interest in it. And so
21 I think this was a rather unique situation from a timing
22 standpoint.

23 The other thing that we've encouraged customers is
24 to submit their pricing request earlier in the year. So if they
25 have a contract that's terminating at the end of the year, we

1 don't want to run up against a deadline. We just start earlier.
2 And that's what we'll agree to do this year.

3 Q. And if a customer--once a customer puts in for
4 indicative pricing, how long does take to get pricing out to that
5 customer?

6 A. Thirty days is what the tariff provides, and we will
7 strive to abide by that.

8 Q. Are there consequences if you don't abide by it?

9 A. Under the tariff, I don't believe so.

10 Q. Should there be, I wonder, in your view?

11 A. Well, we make every effort to abide by that 30-day
12 limit. There are times our QF request, as much as I would
13 like--especially myself and Mr. Duvall's group, we would like
14 them to come in a slow, steady stream so we can manage our
15 work flow. What they found is they come in big spurts and then
16 there will be a period where there aren't as many. There are
17 times where we're sometimes juggling ten to twenty pricing
18 requests at any given time. And we typically meet the 30-day
19 deadline, and we're committed to meet that to the extent we can.

20 Q. Well, I have to agree with you there. My work
21 comes the same way: too much at some time and too little at
22 another. But when there's a deadline given for me, I have to
23 make it or the Court won't accept my pleading. So we have your
24 pledge that you will do your very best?

25 A. Yes.

1 Q. Thank you. Okay. I won't belabor that. I
2 appreciate the--appreciate the cooperation.

3 Let's talk for a minute about RECs, okay, because
4 that's really what the subject of your testimony is. And I--I'm not
5 sure I quite understand where you're going with this in your
6 direct testimony. You say that--at line 32. And you've said it in
7 your direct--you said it in your introduction today, that your
8 recommendation is that the RECs generated by QFs go to the
9 Company under any power purchase agreement executed under
10 Schedule 8 consistent with the treatment in the 2005 case, right?
11 The 2005 order. I'm looking at lines 32 on your testimony, your
12 direct. And the reason for that--let me direct you up two lines
13 above, is stated on line 30--would you read line--
14 the sentence that is in line 30 of your direct, please?

15 A. "If the Company does not get the RECs, it is not
16 receiving the very characteristic that enabled the facility to
17 achieve its QF status.

18 Q. Is this an idea that you have ever seen expressed in
19 Utah law?

20 A. No, currently, I don't believe Utah law addresses the
21 issue of REC ownership as it pertains to QFs.

22 Q. Is it--but--so this is your very own idea, this is your
23 invention, then, on what the policy of Utah ought to be?

24 A. Yes, this is the Company's recommendation as to
25 what the policy--a policy should be, yes.

1 Q. All right. You're not saying really that it was the
2 intent of PURPA that if there were any value in the environmental
3 attributes of QF output, that it was somehow to go along with the
4 power in a qualified facility purchase? You're not saying that was
5 the intent of PURPA, are you?

6 A. No, because PURPA was enacted prior to the
7 creation of RECs, and so there could be no intention at the time
8 of PURPA enactment because RECs were not in existence at that
9 time.

10 Q. Okay. So--so you agree that PURPA does not
11 compel this idea that RECs automatically go with the QF power?

12 A. That is correct.

13 Q. Is there anything in Utah law that compels that
14 idea?

15 A. There is nothing in Utah law other than what was
16 recently passed as--I use kind of layman's term, as Utah's
17 renewable portfolio goal--
18 it's not necessarily a renewable portfolio standard--the 20
19 percent by 2025 goal. And while that isn't necessarily law
20 addressing this particular issue, it is pertinent, because in
21 California, they do have an RPS, so it's not a goal; it's an RPS.
22 And that was the driving decision--or the driving factor that led to
23 the decision by the California commission that QFs that generate
24 RECs convey those RECs to the utility for use for compliance
25 with the RPS. And so in one of the states that is probably one of

1 the most progressive states in terms of green energy and green
2 energy policy, they determined that because of the RPS, any
3 REC that comes from a QF project should go to the utility for use
4 in meeting that RPS.

5 Q. I'm sorry. Let me back you up a little bit on that.

6 A. Sure.

7 Q. Who set the renewable goal? The Legislature, you
8 said?

9 A. Yeah, I believe that's in a statute at this point.

10 Q. And is there any statement by the Legislature that
11 compels you to do that or is it voluntary? It's a goal, right? It's
12 not a requirement?

13 A. Yes, that's what I stated, renewable portfolio goal
14 as opposed to what's more commonly referred to as a standard,
15 which has implications for meeting it, yes.

16 Q. And there's nothing there that really says that if the
17 Company doesn't get the REC, it's not receiving the
18 characteristic that enabled the facility to compel a QF purchase?
19 There's nothing in the statute like that, is there?

20 A. No, the statute does not speak to QFs directly, no,
21 other than to say that a REC from a QF would count towards the
22 renewable portfolio goal. It does state that.

23 Q. What's the consequence if you don't get to the goal?

24 A. I don't know.

25 Q. So does a REC have value to you?

1 A. There are times that a REC does have value, yes.

2 Q. Let me ask you about this--you say repeatedly in
3 your direct testimony that you have analyzed the intent of
4 PURPA and how it applies to the issue of REC ownership in QFs.
5 Let me ask you a question about what PURPA does require,
6 right? Does PURPA, in your view, require PacifiCorp to buy the
7 output of a federal qualifying facility?

8 A. Yes, it does.

9 Q. And does it put a ceiling on the price that you must
10 pay for that power?

11 A. Ceiling would be the Company's avoided cost.

12 Q. Okay. And is there any way that PURPA could have
13 contemplated at that time that the payment for power at the
14 avoided cost would include the renewable energy credit?

15 A. I don't believe there's any way PURPA could have
16 contemplated that, because they weren't in existence at the time
17 PURPA was enacted, so they couldn't have contemplated that.

18 Q. And so it really isn't the intent of PURPA that the
19 REC go with the power because somehow the environmental
20 attribute is tied up with the output? That's not a PURPA idea, is
21 it?

22 A. No. And I've already turned my testimony to where I
23 speak to intent. And perhaps that was a poor choice of words on
24 my part. Probably a better choice of words would have been the
25 premise of PURPA, where we have the purchase obligation

1 because the resource is renewable. And that is the whole
2 undermining--or underlying assumption behind why we have
3 purchase obligation. So the whole premise of PURPA is that this
4 is a renewable resource. A poor choice of words on my part.

5 Q. You have the--you have the obligation because
6 some developer out here went out and put its capital and credit
7 at risk to build something that PURPA thought was in the public
8 interest to build and so they're going to make you buy it; isn't
9 that true?

10 A. Yes.

11 Q. So when Ms. Hayes read to you--by the way, I think
12 I'm going to hand that out as--as a--
13 she didn't, but I think I will.

14 May I approach?

15 THE HEARING OFFICER: Yes.

16 BY MR. EVANS:

17 Q. Do you know what this is?

18 A. Looks like it's a portion of Section 210.

19 Q. Yeah. It's a portion of Section 210, which is
20 PURPA, right?

21 A. Yes, it is.

22 Q. And we can mark this one as KUC/Tesoro Cross
23 Exhibit 1, because it's hard to find and it would be easy to look
24 at if we put it in as an exhibit, but it is the statute enacted in
25 1970, as you see.

1 I've highlighted the section in your copy that's under
2 subsection (a). And let me make this note: Subsection 210 does
3 what--or Section 210 of PURPA does what?

4 A. It establishes the purchase obligation.

5 Q. It establishes the purchase obligation. There's a lot
6 of other parts of PURPA, but this is the one that we're really
7 talking about today, aren't we? This is the one that imposes
8 upon PacifiCorp the purchase obligation.

9 Now, read paragraph--subsection (a) into the
10 record, please, so that we can understand why that purchase
11 obligation is imposed.

12 A. "Cogeneration and small power production rules.
13 Not later than one year after the date of enactment of this act,
14 the Commission shall prescribe and from time to time thereafter
15 revise, such rules as it determines necessary to encourage
16 cogeneration and small power production and to encourage
17 geothermal small power production facilities at not more than 80
18 megawatts capacity, which rules require electric utilities to offer
19 to (1) sell electric energy to qualifying cogeneration facilities and
20 qualified [sic] small production facilities and (2) purchase electric
21 energy from such facilities."

22 Q. Okay. Thank you. So the purpose is to encourage
23 cogeneration and small power production. That's why the
24 obligation is imposed, right?

25 A. That is correct.

1 Q. Okay. You've got a section of the Utah Code sitting
2 right in front of you. Would you pick that up, please, and turn
3 with me to 54-12-1. Do you know what this chapter in the Utah
4 Code addresses?

5 A. We established I'm not an attorney, but reading the
6 subsection here, it says, "small power production and
7 cogeneration."

8 Q. Isn't this the section under Utah law that establishes
9 the purchase obligation of the public utility? Under subsection
10 (2)?

11 A. I believe so, yes.

12 Q. Okay. Good. Would you read the legislative policy
13 under subsection (2) into the record for us, please?

14 A. Where it starts, "Purchasing utilities shall offer"?

15 Q. No, no. "It is the policy of this state," 54-12-1.

16 A. Oh, 12-1.

17 Q. Not Section 2.

18 A. I thought you said 12-2. I apologize.

19 Q. This is to tell us--this is the analog to the purpose
20 statement of why it is imposing the purchase obligation. Go
21 ahead and read.

22 A. "It is the policy of this state to encourage the
23 development of independent and qualifying power production and
24 cogeneration facilities, to promote a diverse array of economical
25 and permanently sustainable energy resources in an

1 environmentally acceptable manner, and to conserve our finite
2 and expensive energy resources and provide for their most
3 efficient and economic utilization."

4 Q. "... to encourage the development of independent
5 and qualifying power production and cogeneration facilities"
6 Which would you say serves that purpose better? To require the
7 QF to convey the REC to PacifiCorp or to allow the QF to retain
8 the REC?

9 A. I don't have an answer for that other than what--

10 Q. Come on, Mr. Clements. You don't have an answer?

11 A. No, other than what has been established in
12 54-12-2, which is the actual statute enacting that legislative
13 policy. So I don't feel like it's appropriate for me to presuppose
14 what the Legislature may have wanted. The legislative policy is
15 spelled out, and then they've enacted certain rules and
16 regulations to enact that policy.

17 Q. Okay. So then I want to know--because you're
18 advocating that the REC should automatically go with the sale of
19 QF power--how does that serve the policy articulated in federal
20 and state law better than letting the REC remain with the QF
21 generator?

22 A. Well, I think you're mixing two things that are not
23 able to be mixed. When I'm referring to PURPA and every FERC
24 order relating to PURPA, and I would even argue this portion of
25 the Utah code that you're addressing, it's strictly referring to the

1 avoided cost for energy and capacity. The encouragement of
2 renewables comes from the purchase obligation. That's what
3 PURPA did. It said we're going to encourage renewables by
4 requiring the utility to purchase their output. That's how they
5 encourage it. We have to buy the energy and the capacity.
6 Nowhere in the Utah Code or in PURPA or any in subsequent
7 FERC order does it speak to REC ownership being part of that
8 threshold.

9 Q. That wasn't--that wasn't the question I asked you.

10 A. Oh, I apologize. Then perhaps rephrase the
11 question. I'll try to give a better answer.

12 Q. Which serves the policy better, to allow the REC to
13 remain with the QF generator or to require the REC to go to the
14 utility when the utility is only paying avoided cost for the power?
15 Which serves the policy better?

16 A. Again, I don't have an opinion on policy.

17 Q. Okay. Then we will move on.

18 A. Okay.

19 Q. I think your testimony is full of policy, so I beg to
20 disagree with you on whether you have an opinion. But if you're
21 not going say it, then we'll move on to the next topic, which is
22 the rest of the support that you give for your reason in your
23 rebuttal. Let me--let me clarify some semantics before we move
24 on to the next section because it's kind of important. When we
25 say that the REC goes with the QF power, would you say that

1 that means bundling? Do you see a distinction between the
2 term, "bundled REC" and that the REC is attached to the power?

3 A. I don't see a distinction there. Sometimes some of
4 our California contracts that we have sold RECs, there is a very
5 clear distinction between rebundled, which means you take a
6 REC from a facility and attach it to an energy sale, versus a
7 bundled product, which typically means this megawatt came from
8 this renewable resource and this REC is attached to it. So there
9 may be some nuances there when you refer to a bundled
10 product.

11 Q. Do you know whether "bundled" has been defined
12 under Utah law?

13 A. I don't know.

14 Q. Do you know whether "unbundled" has been defined
15 under Utah law?

16 A. I don't know that either.

17 Q. You don't know? Let's take a look at the code, then,
18 and look at 54-17-601 and look at the definition of unbundled
19 REC. 54-17-601(11). Would you read that to us, please?

20 A. Sure. I'm just getting myself there.

21 Okay.

22 Q. Please.

23 A. "'Unbundled renewable energy certificate' means a
24 renewable energy certificate associated with qualifying electricity
25 that is acquired by an electrical corporation or other person by

1 trade, purchase, or other transfer without acquiring the electricity
2 for which the certificate was issued." Keep going?

3 Q. Enough for just a minute. Do you have an idea
4 about what that means? In terms of a QF sale, if this were an
5 unbundled renewable energy certificate involved in a QF sale,
6 and that's the definition of unbundled, would the QF generator
7 keep it or would it go to the utility?

8 A. Could you repeat that question?

9 Q. Okay. If we have an unbundled renewable energy
10 certificate involved in a QF sale, would it go to the utility or
11 would it stay with the generator?

12 A. It is the Company's--well, first of all, the last half of
13 your question there has a premise that I don't agree with.

14 Q. There's no premise.

15 A. Well, you--well, then let me--what you state in the
16 last half of that question is does it go to the utility or stay with
17 the QF or generator. It's my testimony and the Company's
18 position that the REC does not have an owner upon its creation.
19 Remember, in my summary, I talked to the initial instance. I
20 mean, when the REC is created, it is in no man's land. No one
21 owns it. And what we're recommending is that the state
22 commission make a determination as to who owns it after the
23 initial instance. So I just wanted to clarify that premise behind
24 the question.

25 Q. I'm not talking ownership. I'm talking bundling

1 versus unbundling.

2 A. Well, you're saying whether it stays with the REC or
3 goes to the utility.

4 Q. Right.

5 A. And my response would be--

6 Q. That's a question of ownership?

7 A. Yes, absolutely.

8 Q. Okay. So--so you think that this doesn't answer the
9 question of who owns the REC? But that question--does it mean
10 that the REC does not automatically go to--go to--with the
11 power?

12 A. No, I don't think this means anything as it relates to
13 qualifying facilities.

14 Q. Okay. But--

15 A. This is strictly a definition of an unbundled REC.

16 Q. Let's read the next--then please read the last one
17 under (b). "Unbundled renewable energy certificate means a
18 renewable energy certificate associated with activities listed in
19 (10)"--"in subsection (10)(e)." Aren't those activities of qualified
20 facilities?

21 A. Yes, in this section of the code is strictly addressing
22 this renewable portfolio goal that I mentioned earlier. And all
23 this is saying is that an unbundled REC which could be produced
24 by a QF can be utilized to meet the goal. That's all this section
25 is saying.

1 Q. Mr. Clements, I would point out that this section
2 isn't saying anything like that. This is a definitional section to
3 part 6, okay? And it's define--it's defining what kind of RECs
4 have been created in this state. RECs are--would you agree that
5 RECs are the creation of state law?

6 A. Yes, that is my testimony, yes.

7 Q. And that the Legislature creates them by this kind of
8 a statute that says here's what a REC is, here's what an
9 unbundled one is, and here's what a bundled one is?

10 A. There is a definition here of unbundled REC in the
11 statute, yes.

12 Q. Okay. So--and those--those activities in (10)(e)
13 create unbundled RECs, right? Now, look at (10)(e), subsection
14 (V).

15 A. Sorry. I haven't had a chance to review (10)(e)
16 before you move on there.

17 Q. Well, I thought we were getting your opinion on what
18 Utah does with RECs. This is--I'm trying to get to what the law
19 compels us to do, because you've told me that your view of
20 RECs is consistent with Utah law and I'm disagreeing with you.
21 So I'm taking a minute to walk you through this to show you why
22 I disagree. Under (11)(b)--

23 A. You may have--walk me through a little slower
24 because we're jumping around and you're asking me to confirm
25 things without giving me a chance to read it.

1 Q. Okay. Well, take a look at (11)(b), an
2 unbundled--I'll read it again; then maybe we can walk through it
3 together because I think it's important for the Commission to
4 know this. "'Unbundled renewable energy certificate' means a
5 renewable energy certificate associated with" either one or the
6 other, right?

7 A. Yep.

8 Q. (a) or (b) or both. Okay. (b) is an activity listed in
9 Section (10)(e). And under one of those subsections is the kind
10 of QFs that my clients operate. That's why I'm trying to get to
11 this. Under V--that's a sub--it's a Roman "v." (10)(e), sub
12 Roman F "v," "a waste gas or waste heat capture or recovery
13 system." We will call this--if you will play this game with me for
14 just a minute, because we can bicker about definitions all day if
15 that's what you want to do, but they will we will call this a
16 cogeneration QF, it's a CCCT type QF. Can we at least assume
17 that for the moment?

18 A. Yes.

19 Q. Okay. So would you agree that the activities of
20 producing power of a cogen QF generate unbundled renewable
21 energy certificates?

22 A. I think the definition stands on its own here.

23 Q. I think it certainly does.

24 A. I will note that--apologize. Rephrasing that answer,
25 I think the section we were reading from there is Section (10),

1 which refers to a renewable energy source.

2 Q. Right.

3 A. And I don't necessarily have an opinion as to
4 whether that would generate a renewable energy credit or not.

5 Q. Oh, well, then that's very helpful for the clarification,
6 because a renewable--because for purposes of RECs under state
7 law, doesn't the state have authority to designate what will be a
8 renewable energy source?

9 A. Yes, it does.

10 Q. Okay.

11 A. It has.

12 Q. It has, and under this section, it has designated the
13 cogen QF as a renewable energy source. That's the point of
14 subsection (10). It designates a cogen QF as a renewable and
15 when the power comes out of that cogen, it is an unbundled
16 certificate.

17 A. I don't--are these questions I'm supposed to
18 respond to, or testimony?

19 Q. I'm supposed to get your--I'm walking you through
20 why it's your opinion that the REC automatically goes with QF
21 power. I don't think that's permissible under Utah law. The way
22 I'm reading this, that's just not the case.

23 A. I don't see anything in this section that speaks to
24 ownership. It's--it's defining what a renewable energy certificate
25 is, but there's nothing in here, in my opinion, that speaks to who

1 owns that.

2 Q. Well, if it's unbundled and all you're buying is the
3 energy for your avoided costs, then why should one assume that
4 you're getting the REC with it?

5 A. We don't assume that we're getting the REC with it.
6 And that's the very point of this proceeding. We're trying to
7 determine who should get the REC once it's generated in that
8 initial instance.

9 Q. Okay.

10 A. We don't make that assumption. We are requesting
11 that this Commission adopt a policy that states that the REC will
12 go to the Company and its customers.

13 Q. And I've asked you--we've read the PURPA policy
14 and we've read the state policy and I've asked you to say why is
15 it--better serves both policy to go with your proposal than to say
16 the REC stays with the generator, and you can't answer the
17 question. So I'm saying not only--

18 A. Is that a question?

19 Q. --does your policy--does your policy not conform to
20 Utah law, but neither does your proposal.

21 Now let's move on to look at what you've cited in
22 support in your rebuttal testimony.

23 THE WITNESS: Mr. Clark, I'm having a bit of
24 difficult time interpreting what's a question and what's a
25 statement. And I'd like to be responsive.

1 THE HEARING OFFICER: I think you're doing well
2 interpreting what's a question and what's a statement. All you
3 have to do is respond to questions.

4 BY MR. EVANS:

5 Q. Let's look for just a minute--

6 THE HEARING OFFICER: Mr. Evans, it would be
7 helpful if you--

8 MR. EVANS: I will.

9 THE HEARING OFFICER: --if you can characterize
10 what you--what you are verbalizing as a question.

11 MR. EVANS: I will give it a shot. I will try to--

12 THE HEARING OFFICER: Thank you.

13 MR. EVANS: Thank you for that.

14 THE WITNESS: And I'd like to answer one of those
15 questions regarding my opinion of policy that you state I refuse
16 to answer. And--

17 BY MR. EVANS:

18 Q. Okay. I'll ask the question again.

19 A. That would be great. Thank you.

20 Q. If you want to give an answer to it, I'll ask the same
21 question as before.

22 A. Okay.

23 Q. We read the policy behind the purchase obligation
24 of PURPA and we've read the policy behind the purchase
25 obligation under state law and I've asked you which better serves

1 that policy, for the Commission to determine that the REC stays
2 with the QF generator or that PacifiCorp gets it for nothing more
3 than paying the avoided cost of the power. Which better serves
4 the policy?

5 A. It's in my opinion that the Company's
6 recommendation does serve that policy.

7 Q. Better? That wasn't--

8 A. Yes.

9 Q. That--

10 A. That's why that's our position, yes.

11 Q. Okay. Can you explain to me why?

12 A. It's--the customer has the purchase obligation as
13 part of PURPA and that's what provides the incentive or that's
14 what provides the encouragement. And it is our position that
15 because the customer owns that purchase obligation and has
16 that purchase obligation, that the customer should also get the
17 REC, and that's good policy.

18 I will further elaborate on that. This is the
19 Company's recommendation on policy. And this, more than most
20 issues that come before this Commission, is truly a policy issue.
21 And in my experience, having gone through a similar proceeding
22 to this one in Wyoming and in Idaho, it truly is a policy issue.
23 And in Wyoming, the Commission made a policy determination.
24 And they said that our policy is better served by having all RECs
25 from QFs go to the Company and its customers for the benefit of

1 customers.

2 Idaho, with the same set of facts before us, made
3 the determination that it benefits customers and developers, and
4 they said we'll split them 50/50.

5 We've seen California say they go to the customers
6 for use of meeting the RPS. And so I would say I'm unqualified
7 and not in a good position, perhaps, to set policy that is more in
8 the hands of this Commission. And so the Company's providing
9 a recommendation and asking that the Commission implement it.

10 Q. Okay. Thank you for that.

11 And you're saying that the Commission should look
12 to Wyoming and Idaho and California as support for that kind of
13 policy being implemented here?

14 A. I won't presuppose what the Commission should
15 look for in making their decision, but I offer that up as an
16 example of how it truly is a policy decision that each commission
17 will make.

18 Q. Isn't the Commission's policy always constrained by
19 the law?

20 A. Yes.

21 Q. Do you know whether the law of Wyoming has a
22 statute that provides for RECs, the creation of RECs?

23 A. I do not know.

24 Q. You don't? It doesn't. Do you know whether the
25 law of Idaho has a statute that provides for the creation of

1 RECs?

2 A. I don't know that either.

3 Q. Weren't you in the Idaho proceeding?

4 A. Yes, I was.

5 Q. Let's mark this as KUC/Tesoro Cross Exhibit No. 2,
6 would it be?

7 Let me ask you if you recognize what this is.

8 A. This is the order on reconsideration in Case No.
9 GNR-E-11-03 before the Idaho Public Utilities Commission.

10 Q. And we've excerpted pages out of it, and this is only
11 pages 9 and 10 out of that order, right?

12 A. One, 9, and 10, yes.

13 Q. One, 9, and 10. I put the caption on it so we'd know
14 what it was.

15 Beginning on page 9, would you read some of this?
16 And you can avoid reading the citations, but I want to get the
17 Commission's reasoning and I want to follow up on response to
18 something you said about Idaho law. "As the Commission
19 noted"--I'll begin at the bottom of page 9--"As the Commission
20 noted in its final Order No. 32697: About half of the states that
21 have adopted RPS programs allow utilities to use [RECs] to meet
22 their RPS requirements." Have I read that correctly?

23 A. Yes.

24 Q. And then would you read the indented section that is
25 quoting--that the Court has quoted there? Begin with "RECs are

1 tradable." Please read that now.

2 A. "RECs are 'tradable certificates . . . that correspond
3 to a certain amount of renewable energy generated by a third
4 party.' Generally speaking, RECs are inventions of state
5 property law whereby the renewable energy attributes are
6 'unbundled' from the energy itself and sold separately. The
7 credits can be purchased by companies and individuals to offset
8 use of energy generated from traditional fossil fuel resources
9 or . . . to satisfy certain requirements that [utilities] purchase a
10 certain percentage of their energy from renewable resources."

11 Q. Do you agree with that statement?

12 A. Yes, I would.

13 Q. Okay. Now, read--now, read down below where the
14 Idaho Commission says, "In its prior final order."

15 A. "In its prior final order, the Commission noted that
16 the parties agreed the Idaho Legislature has not implemented a
17 RPS program nor has it enacted any statute addressing the
18 ownership or allocation of RECs. The Commission observed that
19 it has stated on several"--

20 Q. Go ahead.

21 A. "--previous occasions that the 'State of Idaho has
22 not created a REC program, has not established a trading market
23 for [RECs], nor does it require a renewable energy portfolio
24 standard."

25 Q. Okay. Thank you. So I think this is the Idaho court

1 saying that Idaho doesn't have any law establishing the creation
2 or treatment of RECs, does it? My question is, why would you
3 think that it would be helpful for this Commission to look to an
4 Idaho decision for its policymaking when Idaho's law is nothing
5 like Utah's law?

6 A. Well, backing up to the first question--
7 kind of question you asked, later on in this very order, this Idaho
8 commission said that RECs are created as part of the generation
9 of QF power and that it's just and reasonable and in the public
10 interest that those RECs are split between developers and the
11 utility.

12 Q. I understand that, but Idaho's not constrained by
13 any statutory law, are they?

14 A. I think that would be a legal opinion.

15 Q. I think it says so right here, doesn't it? There is no
16 statutory law in Idaho that they have to observe. Why should the
17 Commission look to what Wyoming and Idaho have done when
18 they don't have laws--and California law, do you know whether
19 it's anything like Utah's law?

20 A. Well, let me answer your first question there. Why
21 should this Commission look to what Idaho and Wyoming have
22 done? I think I go back to what I stated, which again, if you were
23 to take excerpts from this statement in the exact order, you
24 would see where the Idaho Commission said this is good policy,
25 it's just and reasonable that the RECs be split between the

1 Company and its customers and developers.

2 Q. But you--Mr. Clements, the Legislature has stated
3 the policy of this state, haven't they? Let me give you one more
4 thing, and then I'll stop.

5 I apologize for not having copies for everybody. I
6 don't intend to introduce this as a cross exhibit. This is a copy
7 of the decision of the Commission's order in the matter of the
8 complaint of Cottonwood Hydro, LLC, v. Rocky Mountain Power,
9 Docket 10-035-15. And I want you to read what the
10 Commission--this Commission's policy has been, how they have
11 applied the Utah law in this jurisdiction to the unbundling of
12 RECs.

13 On page 11--and let's back up a little bit, because
14 on page 10, if you look at the bottom, it says, "Order." This is
15 the Commission's order, right, you're about to read from? Go
16 ahead. Read us No. 1, please.

17 A. "The output of a generator of renewable energy
18 contains two distinct commodities: The power generated by the
19 facility itself and (2) the environmental attributes of that power,
20 i.e., RECs. Those commodities can be severed."

21 Q. Thank you. Do you believe those commodities have
22 value?

23 A. I do believe RECs have value in certain instances,
24 yes.

25 Q. Okay. Go ahead and read the second one, then,

1 please.

2 A. "Unless provided for otherwise in a contract, the
3 RECs remain with the generator of renewable energy and may be
4 sold and valued separately from the energy produced or retained
5 by the generator of the REC."

6 Q. Okay. Thank you. Do you know whether--do you
7 know what Kennecott and Tesoro do with their RECs?

8 A. I do not, no.

9 Q. You don't know whether they have found a market
10 for them?

11 A. I do not.

12 Q. Do you know whether they use those RECs to offset
13 some environmental requirements in other areas of the country
14 where they have operations?

15 A. I do not know.

16 Q. So you have no idea of what the value of a REC is
17 to Kennecott and Tesoro, do you?

18 A. I do not, no.

19 Q. But the proposal of the Company is that it's good
20 policy for the Company to buy the power at the avoided cost and
21 get the REC for free?

22 A. Again, I would characterize it as getting the REC for
23 free. I would characterize it as an attribute that comes with the
24 purchase of capacity and energy. That's how I would
25 characterize our position.

1 Q. Well, the Commission has said it differently. It said
2 it's severable.

3 A. Yes. Just because it's separable doesn't mean it
4 can't be rebundled. It doesn't prohibit it from coming with the
5 energy. All they're saying here is you're not prohibited from
6 separating off the REC.

7 And again, as I mentioned in my testimony and,
8 again, in my summary, the Cottonwood Hydro order was a
9 contract dispute, and part of the Cottonwood Hydro order that is
10 very relevant and important here is, "Unless provided for
11 otherwise in a contract" And that's really what the
12 Company's recommendation is: Let's have explicit contract
13 terms that state, Here is who owns the RECs.

14 Q. So is it--is it the Company's position, then, that the
15 parties can freely negotiate the ownership of the REC by
16 contract?

17 A. Up until this point in time, that has occurred on
18 occasion.

19 Q. Is that the Company's proposal in this case?

20 A. No, that's not the Company's proposal in this case.

21 Q. Oh, you're going to compel that REC to go by
22 contract? Is that the idea? You're going to compel--you're going
23 to ask the Commission to approve a contract that compels the
24 QF to sell that REC for no value, right?

25 A. No.

1 MS. HOGLE: Objection. Assumes facts not in
2 evidence. I mean--

3 MR. EVANS: I think that's the proposal.

4 MS. HOGLE: --he already testified that this
5 proceeding is to set policy, and that is the Company's
6 recommendation.

7 MR. EVANS: I have no more questions. Thank you,
8 Mr. Clements, for your patience.

9 THE WITNESS: Thank you.

10 THE HEARING OFFICER: Any questions for Mr.
11 Clements?

12 Oh. Any redirect?

13 MS. HOGLE: I don't have any. Thank you.

14 THE HEARING OFFICER: Mr. Clements, you're
15 excused.

16 THE WITNESS: Thank you.

17 THE HEARING OFFICER: Thank you.

18 Is there anything further from the Company, Ms.
19 Hogle?

20 MS. HOGLE: The Company rests its case. Thank
21 you.

22 MR. SIMON: Commissioner Clark?

23 THE HEARING OFFICER: Yes.

24 MR. SIMON: I'm sorry. If I may, Dan Simon for
25 Scatec North America. There were two exhibits we had used

1 with Mr. Clements I'd like to go ahead and move into evidence
2 now. I don't think I did that before Scatec Cross-Examination
3 Exhibit 1 and 2.

4 THE HEARING OFFICER: Any objection?

5 They're received. Scatec Cross Exhibits 1 and 2
6 were admitted into evidence

7 MR. EVANS: Mr. Commissioner, I would like to do
8 the same. We have submitted KUC/Tesoro Cross Exhibit 1 and
9 2. I would ask that they be received.

10 THE HEARING OFFICER: Any objection?

11 They're received. KUC/Tesoro Cross Exhibits 1 and
12 2 were admitted into evidence

13 THE HEARING OFFICER: Ms. Schmid.

14 MS. SCHMID: The Division would like to call its first
15 witness, Dr. Abdinasir Abdulle.

16 THE HEARING OFFICER: Thank you. And for your
17 planning purposes, I think we'll have Dr. Abdulle take the stand,
18 be sworn, offer a summary, and then we'll recess.

19 MS. SCHMID: Thank you.

20 THE HEARING OFFICER: Do you solemnly swear
21 that the testimony you're about to give shall be the truth, the
22 whole truth, and nothing but the truth?

23 THE WITNESS: I do.

24 THE HEARING OFFICER: Thank you. ABDINASIR
25 ABDULLE, being first duly sworn, was examined and testified as

1 follows:

2 EXAMINATION

3 BY-MS.SCHMID:

4 Q. Good afternoon.

5 A. Good afternoon.

6 Q. Could you please state by whom you are employed
7 and your business address, for the record?

8 A. I'm employed with the Division of Public Utilities, for
9 which I am here to testify in representation of. And my business
10 address is right here, Heber Wells Building in Salt Lake.

11 Q. Thank you. Did you prepare exhibits in this docket
12 and cause them to be filed?

13 A. Yes, I did.

14 Q. And they are Exhibits DPU 2D, DPU 2R, and DPU
15 2SR with exhibits?

16 A. Yes.

17 Q. Do you have any changes or corrections to those
18 exhibits?

19 A. Yes, I do. On my rebuttal testimony, page 4, line
20 76, there is a number there, 60.2 percent. That is a typo and
21 should be 66.2 percent instead.

22 Q. With that correction, if I were to ask you today the
23 same questions that were asked and answered in your prefiled
24 testimony, would your answers be the same?

25 A. Yes, they would.

1 Q. Thank you. Do you have a summary to provide?

2 A. I do.

3 Q. And if I may, I have copies of a summary of his
4 testimony that I can distribute. And if you would like, we can
5 mark this as DPU Hearing Exhibit 1 and ask that it be admitted
6 or just have it for reference during his summary presentation.

7 THE HEARING OFFICER: Thank you. Please
8 proceed.

9 THE WITNESS: Good morning, or good afternoon,
10 whichever way, Commissioners. I submitted a couple of--direct,
11 rebuttal, and surrebuttal testimony in this proceeding.

12 The main objective of this proceeding--
13 the main objectives of this proceeding are to reexamine the
14 avoided cost methodology for renewable resources larger than
15 three megawatts and decide on issues pertaining to RECs,
16 particularly the ownership of RECs, and whether the qualifying
17 facility should have--should have the opportunity to buy back the
18 RECs.

19 Currently, there are two separate methodologies for
20 calculating avoided costs for wind QF resources larger--larger
21 than three megawatts. The market proxy method, which is
22 applicable to wind QF resources up to the IRP level, and the
23 Proxy/PDDRR method, which is applicable to QF in excess of the
24 IRP target level.

25 Regarding the avoided cost methodology, the

1 Division believes that, under the current conditions where the
2 Company already satisfied the IRP target for wind, the current
3 market proxy is outdated, and the current IRP does not include
4 cost-effective wind resources in the preferred portfolio. The
5 proxy method would not produce avoided costs that would be in
6 the public interest. Furthermore, the Division believes that the
7 market proxy has--the market proxy method is inherently flawed,
8 as I explained in my rebuttal testimony. Therefore, the market
9 proxy method should not be allowed in this proceeding and
10 should not be reintroduced any time in the future.

11 The Division agrees with the Company that avoided
12 costs of all new QFs exceeding three megawatts should be
13 calculated using the Proxy/PDDRR method with updated capacity
14 and--
15 with updated capacity and integration costs.

16 However, the Division disagrees with the Company
17 in the methodology that should be used to calculate capacity
18 contribution of wind, solar, and integration costs for solar.

19 Though in my direct testimony I did not oppose the
20 Company's calculation of capacity contribution, the direct
21 testimonies of other parties persuaded me to conduct further
22 research on the issue. Based on this additional research, the
23 Division proposed in its rebuttal testimony that, if data were
24 available, a reliability-based method such as ELCC should be
25 used. Whereas the data may not be available or where the

1 computation is overly burdensome, the Division proposes the use
2 of Capacity Factor Approximation method.

3 However, I recognize that the Commission needs to
4 determine a capacity value for renewable resources at least on
5 an interim basis. Therefore, the interim--for the interim period,
6 the Division proposes a wind capacity contribution in the range of
7 8.72 percent to 12.03 percent within a midpoint of 10.4 percent.
8 For solar, the Division proposes a capacity contribution of 68
9 percent for PV systems with fixed axis and 84 percent for PV
10 systems with tracking capacity--capability. These values are
11 NERC estimates specific to Salt Lake City.

12 To resolve the capacity value issue, the Division
13 recommends that the Commission hold two or three conferences,
14 technical conferences, in which parties make presentations.
15 Parties can then file comments on the information presented in
16 the technical conference and the Commission could make its
17 decision based on these comments.

18 Regarding that integration costs, the Division agrees
19 with the Company--Company's proposed wind integrated costs.
20 However, since solar energy is more regular and predictable than
21 wind, the Division proposes an integration cost of 50 percent of
22 wind integration cost for peak- oriented solar resources and 65
23 percent of wind integration cost for energy-oriented wind
24 resource.

25 There were other adjustments to the PDDRR method

1 suggested by other parties. These adjustments include risk-
2 associated costs and other environmental benefits. The Division
3 believes these costs are captured in the IRP as the
4 benefits--environmental benefits are captured in the RECs.
5 Adjusting avoided costs for these costs and benefits would
6 violate the ratepayer indifference principle. Therefore, the
7 Division recommended that these adjustments--additional
8 adjustments should not be allowed.

9 On the issue of RECs, the Division believes that
10 renewable generation--generators produce and sell two different
11 products: generic power, which trade in the power market, and
12 the RECs which trade in the REC market. PURPA contemplates
13 the purchase of the generic power and not the RECs. Hence, the
14 Division's position is that since the PDDRR method does not
15 compensate the developers for RECs, the RECs should remain
16 with the developers.

17 And that concludes my summary.

18 BY MS. SCHMID:

19 Q. I have just one clarifying question. You talk about a
20 integration cost for energy oriented solar resources. Is it true
21 that what we propose as 65 percent of wind integration costs for
22 energy oriented solar resources?

23 A. Can you say it again?

24 Q. When we were talking about solar resource
25 integration costs, is the Division proposing that 65 percent of

1 wind integration costs for energy oriented solar be paid?

2 A. Yeah.

3 Q. Okay. And then 50 percent of wind integration costs
4 for peak-oriented solar resources?

5 A. Correct.

6 Q. Thank you.

7 And one more clarifying question: With regard to
8 the solar integration costs, is it the Division's position that the 65
9 percent and 50 percent should be ordered on an interim basis?

10 A. Yes.

11 MS. SCHMID: Thank you. With that, would the
12 Commission like me to mark and move the admission of Dr.
13 Abdulle's summary of testimony?

14 THE HEARING OFFICER: As I've followed it, it was
15 virtually identical to what we'll have transcribed in the record, so
16 I don't perceive a need to do that. Do--but it's helpful to have,
17 thank you, as a reference.

18 MS. SCHMID: Could we go off the record for just
19 one second?

20 THE HEARING OFFICER: Off the record.

21 On the record.

22 MS. SCHMID: I am not sure that I requested that
23 Dr. Abdulle's testimony be admitted as evidence with the
24 accompanying exhibits. If I did not, I would like to do so at this
25 time.

1 THE HEARING OFFICER: Is there any objection?
2 They're received in evidence.

3 MS. SCHMID: With that, Dr. Abdinasir Abdulle is
4 available for questions and cross-examination from the
5 Commission.

6 THE HEARING OFFICER: Thank you. We'll be in
7 recess until 15 minutes to 3:00.

8 (Recess taken, 2:36-2:48 p.m.)

9 THE HEARING OFFICER: On the record.
10 Ms. Hogle, do you have cross-examination?

11 MS. HOGLE: I have no cross for Dr. Abdulle.

12 MR. McDONOUGH: I have nothing, Commissioner.

13 MS. HAYES: I have nothing.

14 MR. DODGE: No questions.

15 MR. SIMON: No questions.

16 MR. DODGE: You scared everybody.

17 MS. SCHMID: Mr. Evans seems to have stepped
18 away.

19 THE HEARING OFFICER: We'll be off the record for
20 a moment.

21 (A discussion was held off the record.)

22 THE HEARING OFFICER: Question for--
23 let's go on the record.

24 Mr. Evans, do you have questions for the witness?

25 EXAMINATION

1 BY-MR.EVANS:

2 Q. Dr. Abdulle, I--thank you, Commissioner. I do have
3 one question. And that is, in your rebuttal testimony, at line 54,
4 you responded to Mr. Brubaker's request that the Division help
5 verify the Company's calculations and avoided costs?

6 A. Line?

7 Q. Line 355 in your rebuttal.

8 A. Okay.

9 Q. And our request--and let me iterate that it's
10 contained in your testimony, it's repeated there, so I'll read from
11 your testimony at line fifty--358 in your rebuttal, where you say,
12 ". . . Mr. Brubaker stated"--this is what Mr. Brubaker's request
13 was--

14 "if the recipient"-- that would be Kennecott and Tesoro, of
15 information provided to them by the Company--"is unable to
16 verify RMP's avoided cost calculations, it should be able to seek
17 verification of the results from the Division." Have I read that
18 correctly?

19 A. Yeah.

20 Q. And then your response was basically: The Division
21 already performs those calculations and we filed them quarterly
22 with the Commission; is that correct?

23 A. Yes.

24 Q. And were you here today when Mr. Duvall said he
25 couldn't find those calculations in the quarterly report that the

1 Division files with the Commission or with--the Company files
2 with the Commission?

3 A. I heard him stated--he said he couldn't find what?

4 Q. He couldn't find the profiling of the avoided cost
5 down to monthly high load and low load hours in the report that
6 the Company files quarterly with the Commission?

7 A. Yes.

8 Q. Would you--would you agree that those numbers are
9 not in that report?

10 A. Yes, they are not in that report.

11 Q. Thank you. So that if we need the Division's help in
12 verifying those numbers, we're in negotiations on a QF contract,
13 would the Division be willing to help us verify those numbers?

14 A. The Division is willing to help anybody who
15 seek--who is seeking help to get the high numbers and give the
16 proper idea to the Commission. However, the Division would not
17 prefer to go into a contracting process early enough in which
18 they would have to decide about we are willing to help provide
19 any help we can do.

20 Q. Well, when the contract is ultimately filed, the
21 Division reviews it, don't you?

22 A. Yes, we do.

23 Q. Do you look at how these--how these monthly and
24 hourly numbers have been derived from avoided costs?

25 A. I believe so. Though I am not the one that does

1 that, but I believe so. We do that. We do number on everything
2 over there.

3 MR. EVANS: All right. Okay. Thank you. No more
4 questions. Thank you.

5 THE WITNESS: You're welcome.

6 THE HEARING OFFICER: Thank you.

7 EXAMINATION

8 BY-THE HEARING OFFICER:

9 Q. Dr. Abdulle, I have a few questions for you. First,
10 regarding the circumstance where a cost-effective renewable
11 resource is present in the utilities least-cost/ least-risk
12 IRP--when that's the case, does the Division propose using the
13 next deferrable thermal plant or renewable resource as the proxy
14 for determining the avoided cost?

15 A. The Division always--in our testimony, we propose
16 the use of the thermal resource, which is the next deferrable
17 resource in the IRP. However, in obtaining that, the next
18 deferrable IRP resource should be the one used in the
19 calculations by IRP, the avoided cost.

20 Q. And would you summarize for me your reasons for
21 that approach--could you relate your reasons to the
22 characteristics of the two types of resource?

23 A. If I understand the question right, here is--the
24 IRP--we're providing a renewable resource, we're trying to avoid
25 the highest-cost alternative. That was already-- that's what we

1 are trying to defer. We're not saying it has to be thermal or it
2 has to be here or it has to be there. We're saying, like, whatever
3 in the highest-cost resource is the one that should be--what do
4 you call?--deferred.

5 Wind would have a better characteristic, similar
6 to--if we're bringing wind, replacing with wind, would have better
7 characteristics and easier to calculate the avoided costs simply
8 because the capacity factor--capacity contribution would not
9 be--needs to be calculated. All this methodology will not be
10 there. However, if it's not the least costing, then it should not be
11 handed out.

12 On the other hand, I personally think that when wind
13 resource is there, it's not wind resources that will be replaced. It
14 will be running whenever the wind comes and it will--the
15 Company will be turning up or down some other resource other
16 than wind.

17 And that is my answer, if I understand the question
18 right.

19 Q. Thank you. I have a question in a different area for
20 you. Under the circumstance where we have planned resources
21 that are not least-cost/least-risk--in other words, resources that
22 are present in the plan to meet, for example, RPS obligations in
23 other jurisdictions--I think you're recommending in that situation
24 that--that the Commission should study how to--how to address
25 that circumstance. Is that accurate?

1 A. Uh-huh (Affirmative).

2 Q. Do you have a view of what the Division--or does
3 the Division have a position as to what the Commission should
4 do in the interim period while that issue is being evaluated?

5 A. No, nothing other than what we already proposed as
6 the interim solution. But in the case of those kind of resources
7 being there, knowing that they will be changed on what defined
8 the dispatch characteristics of the system, we did not exactly
9 know how to do those, and that's why we're saying, like, it has to
10 be studied further.

11 Q. Now, addressing the situation where--or the
12 conditions where there's no cost-effective renewable in the IRP,
13 how are capacity values--
14 how do you recommend capacity values be estimated for a wind
15 renewable?

16 A. I base it on the PDDRR method. Capacity value? Is
17 that what he said?

18 Q. Yes.

19 A. Price contribution?

20 Q. Yes.

21 A. Well, in the case of price contribution, our
22 recommendation was that the ELCC--the thing is, there is a
23 probability, a chance--

24 THE REPORTER: Sorry. Could you repeat that?

25 THE WITNESS: There is a chance of loss of load

1 all the time. And a method that really accounts for that
2 possibility of loss of load needs to be used on the ELCC was
3 what we thought was the most appropriate one, if we have the
4 data for it--and if not, the one that fit that approximate--is the
5 Capacity Factor Approximation method.

6 BY THE HEARING OFFICER:

7 Q. You said the ELCC is the one--

8 A. Yes.

9 Q. --to be used?

10 How does your approach in this area differ from Mr.
11 Falkenberg's? As I read them, they seem similar to me, but the
12 results are different, and so can you explain the different
13 outcomes for me?

14 A. Yes. In the direct testimony of Mr. Falkenberg that
15 was completely different than what we're thinking of. Another
16 one, we discuss it most of the time. Mr. Falkenberg's
17 methodology verbally indicates that he's trying to equate the
18 reliability of the thermal resource with the reliability of the wind
19 resource, for example.

20 And he went through the calculations using the
21 Company data. However, the difficulty we had with the
22 calculations was that it was like matching the hours properly,
23 such that the wind contribution was based on a difference
24 between wind plus thermal minus wind. So if those three--
25 all those variables are from the same hour, then the difference is

1 simply the wind.

2 However, if they are not matched hour by hour, then
3 the difference would not be only wind, but also a portion of
4 thermal that would be displaced. So because of that, we did
5 not--I did not endorse, agree with him. When I tried to match
6 them, what I found out was that as we change the capacity
7 reserve--the reserve margin, things were flying around very--too
8 much variability was there so that you could not know what to
9 rely on.

10 What the ELCC method has the advantage of--of
11 being more robust and including factoring in the loss-of-load
12 probability, the essence of the whole thing.

13 Q. Does that complete your answer?

14 A. Yes.

15 Q. Thank you. And from the Division's perspective,
16 Doctor, how and when should the Commission determine the
17 Company's planned IRP resources and--and identify cost-
18 effective resources for the purpose of avoided cost
19 determination? Should it be associated with the IRP and how
20 should the update affect the--the Commission's process, and do
21 you have any--any other ideas about how the Commission should
22 approach the timing of evaluating avoided cost?

23 A. In relation to the IRP process?

24 Q. Right, or in relation to the Commission's
25 management of avoided cost determination calculations.

1 A. I haven't thought about it, but I think--I don't know.
2 The thing about the timing--when would be appropriate to--let me
3 rephrase the question and see if I have answer. When the
4 appropriate time for the Commission to determine avoided cost,
5 is that what the question is?

6 Q. Yes. And initially I related it to the IRP process and
7 the acknowledgment of IRP, I'll add to that, and the update
8 process. Are all of those times when--when the Commission
9 ought to be reexamining avoided cost or--or should it be some
10 other time or should it be--

11 A. Seems to me--given the fact that we're talking about
12 deferring some resources by including another resource, we need
13 to have an idea--clear idea as to what the preferable portfolio of
14 the Company is; i.e., when is the resource additions are taking
15 place and stuff like that so that you know when to defer what.
16 The timing of that is very important. So I don't think avoidable
17 cost should be decided time-wise independent of the IRP.

18 Q. By IRP, do you mean an acknowledged IRP or--or
19 the IRP filing of the Company?

20 A. I will say acknowledged IRP.

21 Q. Is every two years frequently enough, in your view,
22 to provide valid avoided costs?

23 A. Given the rigor of analysis that goes into the IRP
24 process and the fact that I think IRP and the avoidable costs be
25 connected, I think two years would be good enough time, a

1 reasonable time.

2 Q. In determining the avoided cost of a QF, is it
3 preferable to use a planning assumption or the actual
4 characteristics of the QF, in your view?

5 A. In determining an actual QF asking for a price,
6 coming in, the actual calculation should be used of that because
7 the whole thing depends on the actual rather than planning.

8 THE HEARING OFFICER: Thank you, Dr. Abdulle.
9 Those are all my questions.

10 EXAMINATION

11 BY-CHAIRMAN ALLEN:

12 Q. Thank you. I have a couple of questions, Dr.
13 Abdulle, that relate to my earlier questions on solar integration,
14 and specifically you may have noticed that I mentioned the lack
15 of data that has--in this case right before us. And I'm wondering,
16 you presented--you present some of the only data that we have.
17 You presented a chart in your direct testimony on the coefficient
18 of variation between wind and solar. And I believe you said that
19 you used Company provided data to create that chart. And if I
20 remember right from when I took math from Leibniz 150 years
21 ago, it seems that you're trying to compare the variation between
22 a series, right, a series of series. I'm curious about the end
23 sample and the substantive nature of this view. Did you compare
24 one wind farm and one solar farm? Did you have 10, 15 data
25 points in series? I'm just trying to get a feel for how much data

1 there went into this analysis and this recommendation.

2 A. I don't remember, but how--I think we had the whole
3 500 load data for wind that the Company provided. And I think
4 we had the same kind of the data that the Company provided, but
5 I don't remember the sample size.

6 Q. Do you remember if these were nationwide sites and
7 facilities or were they regional or do you remember where the
8 data points came from?

9 A. I think the data points was the one that the
10 Company simulated and used for their calculations.

11 Q. So given the fact that we lack a solar integration
12 study in determining this, would you say that your coefficient of
13 variation, your research into the data that you have, would that
14 be a good proxy for what you would expect to come out of a
15 study? Is it just a starting point? Is it kind of hitting a degree of
16 reliability?

17 A. When we were looking at those--that calculation,
18 what we were trying to see was how predictable solar resources
19 are compared to wind. So it may not be the same number
20 outcome, but we're still seeing that it's still--the result of data
21 will also show that solar is more predictable as wind.

22 Q. And we have wind integration studies, so you
23 consider that a good baseline to compare? In terms of the data,
24 not the price, but the data?

25 A. I don't understand what you mean by the data.

1 Q. When you're comparing solar against wind--and
2 wind seems to be the benchmark that some people have
3 recommended--do you feel there's been substantial wind
4 integration studies and results data that allows that to be a
5 healthy baseline? When you look at that against the trend with
6 wind, that's--because it's the only thing we've compared solar
7 against--is that a--is that a good place to put that--that
8 mathematical confidence that we compared to wind, and wind's a
9 good, reliable benchmark because we had plenty of studies?
10 That's what I'm asking. Is that your sense?

11 A. Under the current situation, I think, where we don't
12 have real data for solar, I think that's reasonable. And that's
13 what we did. We're looking at the regularity of the two. And
14 based on that, we said this much percent of wind and this much
15 percent of wind. I mean, when we're looking at integration costs
16 of solar, we were looking at percentage of the integration costs
17 of solar. So I think that's--my answer is yes.

18 CHAIRMAN ALLEN: Okay. Thank you.

19 THE HEARING OFFICER: Mr. Chairman, do you
20 mind if I ask the--another couple of questions?

21 CHAIRMAN ALLEN: Go ahead.

22 FURTHER EXAMINATION

23 BY-THE HEARING OFFICER:

24 Q. Dr. Abdulle, do you mind if I ask a couple other
25 questions? Thank you. Taking you back to the area of capacity

1 value of wind renewable QFs when there's no cost- effective
2 renewables in the--in the IRP, I think you mentioned that you're
3 aware of studies where all the hours in a year are used instead
4 of the 100 heavy-load hours. Am I correct about that?

5 A. The ELCC and those reliability basic method are
6 using all the hours.

7 Q. I had in my mind that you--there was some studies
8 that you referenced, but perhaps it was the methods that you
9 were describing rather--
10 rather than other kinds of research.

11 A. I don't recall any of that.

12 Q. Thank you.

13 A. You're welcome.

14 MS. SCHMID: I--I do have a couple.

15 THE HEARING OFFICER: Ms. Schmid, please. Any
16 questions based on ours? Yes.

17 FURTHER EXAMINATION

18 BY-MS.SCHMID:

19 Q. Commissioner Clark asked you questions about
20 timing and review and things like that. Is it true that currently we
21 review avoided costs on an--on a quarterly basis?

22 A. Yes, we do.

23 Q. And when we review the avoided costs on a
24 quarterly basis, it includes changes in forward price curve and
25 load forecasts and things like that; is that right?

1 A. That's correct, all other inputs that may change.

2 Q. So we are reviewing more often than just in the
3 two-year IRP cycle; is that right?

4 A. Yes.

5 Q. And you are not proposing a change to what we do
6 now, you are--is it true that you are proposing that we continue
7 to do the quarterly reviews and also do the IRP and updates with
8 regard to avoided costs?

9 A. Can you rephrase it again?

10 Q. Yes. So would you like the Division to continue
11 doing the quarterly reviews as well as looking at avoided costs in
12 the IRP process?

13 A. Yes.

14 MS. SCHMID: Thank you. Those are all my
15 questions.

16 THE HEARING OFFICER: Thank you. Doctor,
17 you're excused.

18 Mr. McDonough.

19 MR. McDONOUGH: Yes, the Office would like to
20 call Randy Falkenberg via telephone, so . . .

21 THE HEARING OFFICER: We will be off the record
22 for a moment.

23 (A discussion was held off the record.)

24 THE HEARING OFFICER: Mr. Falkenberg, this is
25 Commissioner Clark. Would you raise your right hand, please?

1 Do you solemnly swear that the testimony you're about to give
2 shall be the truth, the whole truth and nothing but the truth?

3 THE WITNESS: I do.

4 THE HEARING OFFICER: Thank you.

5 Mr. McDonough.

6 RANDALL J. FALKENBERG, being first duly sworn,
7 was examined and testified as follows:

8 EXAMINATION

9 BY-MR.McDONOUGH:

10 Q. Mr. Falkenberg, this is Kevin McDonough speaking.
11 For the record, would you please state your name and your
12 business address?

13 A. Randall J. Falkenberg. RFI Consulting, Inc., PMB
14 362, 8343 Roswell Road, Sandy Springs, Georgia 30350.

15 Q. And would you please state your occupation and
16 with whom you are employed?

17 A. Yes. I'm a utility regulatory consultant. I'm
18 employed by RFI Consulting, Incorporated.

19 Q. Mr. Falkenberg, have you filed testimony on behalf
20 of the Office of Consumer Services in this docket earlier this
21 year?

22 A. Yes, I did.

23 Q. And specifically would that be direct testimony filed
24 on March 29th, rebuttal testimony filed on May 15th, and
25 surrebuttal testimony filed on May 30th?

1 A. That's right.

2 Q. Did you also file, earlier this week, a one-page
3 errata to page number 1 of your surrebuttal testimony?

4 A. I did.

5 Q. Other than the errata that was filed earlier this
6 week, do you have any changes to your testimony that was
7 prefiled?

8 A. Well, I have one correction in my direct testimony
9 on page 7 of my direct testimony at line 175.

10 Q. Okay.

11 A. Mr. Duvall testified earlier this morning regarding
12 the situation with respect to Washington, and I also had a
13 reference to that in my testimony. So the sentence that starts on
14 line 175, beginning with the word further should be stricken. And
15 then all the way to where the last word in the sentence is
16 purposes. So those lines are--should be removed from the
17 testimony.

18 Q. Thank you. Other than striking those lines from
19 your testimony and the errata, if you were asked the same
20 questions during this hearing today as were asked in the prefiled
21 testimony, would your answers today be the same as the
22 answers that were filed?

23 A. They would.

24 MR. McDONOUGH: Commissioner, I'd like to move
25 for the admission of Mr. Falkenberg's prefiled testimony.

1

THE HEARING OFFICER: Any objections?

2

It's received.

3

BY MR. McDONOUGH:

4

Q. Mr. Falkenberg, did you prepare a summary of your testimony?

5

6

A. Yes, I did.

7

Q. Would you, please?

8

A. My name is Randy--I'm sorry.

9

Q. Go ahead. Thank you.

10

A. My name is Randy Falkenberg and I'm a witness for the Office of Consumer Services. I filed three pieces of testimony: direct, rebuttal, and surrebuttal. Major conclusions and recommendations concerning the remaining areas in this case that are still in dispute are as follows:

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

First, the market proxy method no longer produces reasonable avoided costs for large renewable QFs. The method was appropriate at a time when the capacity--Company was rapidly expanding its fleet of wind resources and when wind resources were expected to be part of the least-cost expansion plan. At present, neither condition is applicable. The Company has no immediate plans to add new wind resources, and the only such resources expected to be installed in the next five to ten years are included to meet renewable portfolio standards in other states. This conclusion remains unchanged from the time of my original filing to the present even after consideration of other

1 parties' responsive testimony.

2 Second, the PDDRR method provides a reasonable
3 basis for determining the avoided costs of renewable QF. I
4 generally agree with the mechanics of the Company's proposed
5 PDDRR method, including the way in which they apply the results
6 of the 2012 wind integration study. However, the proposed
7 integration cost of \$4.35 per megawatt hour should be updated
8 after the 2012 wind integration study has been fully vetted by the
9 Commission in future proceedings or in the IRP.

10 Third, the Company provides little support for its
11 assumption that wind and solar projects impose the same
12 integration costs. I recommend the Commission require the
13 Company to perform a solar integration study and update the
14 avoided costs when results become available and that study has
15 been vetted. In the meantime, I accept DPU's proposal to use 50
16 to 65 percent of the value for wind integration.

17 Fourth, for wind and solar capacity contributions, I
18 pointed out some flaws in the Company's approach and provided
19 some alternative estimates ranging from 13.8 percent to 20.5
20 percent. I recommend that ultimately one of the reliability
21 methods documented in the National Renewable Energy Lab
22 Report provided as an exhibit to the testimony of Utah Clean
23 Energy witness Ms. Sarah Wright be used by the Company. Most
24 of the parties appear willing to examine this approach through a
25 subsequent process. Mr. Vastag lays out the OCS position on

1 the Office's process recommendations in more detail.

2 Finally, in response to Utah Clean Energy's rebuttal
3 testimony, I recommend that during the deficiency period, the
4 payment rate for renewable QFs should be capped at the
5 variable cost of the avoided unit, as is the practice for
6 nonscheduled, nondispatchable, or nonfirm energy from thermal
7 resources.

8 That concludes my summary.

9 MR. McDONOUGH: Mr. Falkenberg is prepared to
10 answer cross-examination questions.

11 THE HEARING OFFICER: Questions? Ms. Hogle?

12 MS. HOGLE: I have none.

13 THE HEARING OFFICER: Ms. Schmid.

14 MS. SCHMID: None.

15 MS. HAYES: No, thank you.

16 MR. DODGE: No questions.

17 MR. EVANS: None here. Thank you.

18 THE HEARING OFFICER: I have a couple of
19 questions, Mr. Falkenberg. This is Commissioner Clark.

20 THE WITNESS: Yes, sir.

21 EXAMINATION

22 BY-THE HEARING OFFICER:

23 Q. I want to address my questions to the situation of
24 where there's a cost effective renewable resource selected in the
25 Company's least-cost/least-risk IRP. Would the--would you

1 recommend using the Proxy/PDDRR method to establish avoided
2 costs in that setting?

3 A. Yes.

4 Q. And since renewable resources are primarily capital
5 costs--and I assume you agree with that premise; is that true?

6 A. Yes, sir.

7 Q. So most of the cost avoided is contained in the
8 proxy component of the Proxy/PDDRR method, would that also
9 be true?

10 A. Well, I think that the best way to do it would be to
11 take the capital cost of the renewable resource that's included in
12 the--in this--in this study and use that to compute the payment
13 rate once that resource comes on line. Prior to that, it would
14 presumably be done using the GRID model if it's done now. So,
15 for example, if you had a renewable that showed up in 2020, I
16 would do the analysis based on the GRID up until 2020 and use
17 that price of that new renewable from 2020 and beyond.

18 THE HEARING OFFICER: Thank you. That
19 concludes my questions.

20 And that concludes everyone's questions. So is
21 there any redirect, Mr. McDonough?

22 MR. McDONOUGH: There's no direct--no redirect.

23 THE HEARING OFFICER: Thank you.

24 Mr. Falkenberg, thank you. You're excused.

25 THE WITNESS: Okay. Thank you.

1 THE HEARING OFFICER: Mr. McDonough.

2 MR. McDONOUGH: The Office would like to call
3 their next witness, Mr. Béla Vastag.

4 THE HEARING OFFICER: Would you raise your
5 right hand, please? Do you solemnly swear that the testimony
6 you're about to give shall be the truth, the whole truth and
7 nothing but the truth?

8 THE WITNESS: I do.

9 THE HEARING OFFICER: Thank you. Please be
10 seated.

11 BÉLA VASTAG, being first duly sworn, was
12 examined and testified as follows:

13 EXAMINATION

14 BY-MR.McDONOUGH:

15 Q. Mr. Vastag, for the record, would you please state
16 your name and your title?

17 A. My name is Béla Vastag. I'm a utility analyst for the
18 Utah Office of Consumer Services.

19 Q. What's your business address?

20 A. This building, which is 160 East 300 South, Salt
21 Lake City, Utah.

22 Q. Would you please briefly describe your job
23 responsibilities and duties?

24 A. I'm utility--again, utility analyst with the Office. I've
25 been with--with--for three years and my primary responsibilities

1 include resource planning, resource acquisition, analysis, and
2 transmission planning.

3 Q. Brief summary of your background?

4 A. I've got a bachelor's degree in physics with a minor
5 in mathematics from Virginia Tech, master's of science in finance
6 from the University of Utah. I've got about 25 years working in
7 finance, budgeting and data analysis. Ten years, I've worked for
8 state agencies in Salt Lake City and the state of Utah.

9 Q. And have you filed testimony on behalf of the Office
10 regarding this docket?

11 A. Yes, I have.

12 Q. And what testimony is that?

13 A. I filed direct, rebuttal, and surrebuttal in this phase
14 of the docket.

15 Q. Do you have any changes to that?

16 A. I do not.

17 Q. If you were asked those same questions today
18 during this hearing that you were asked in the testimony that you
19 filed, would your answers be the same?

20 A. Yes, they would.

21 Q. Have you prepared a summary of your testimony
22 today?

23 A. Yes, I have. I have a brief summary.

24 Q. Please.

25 A. Again, my name is Béla Vastag. I work for the

1 Office of Consumer Services. I filed direct, rebuttal, and
2 surrebuttal testimony in Phase 2 of this docket. The Office of
3 Consumer Services recommendations that I provided in my
4 testimony are summarized as follows--followed--excuse me. I
5 need help with my reading.

6 (1) In determining the proper avoided cost pricing
7 methodology for renewable QFs, the Office recommends that the
8 Commission follow the guidelines from PURPA and from FERC
9 regulations and guidance. Based on these guidelines, prices
10 should include only the real actual costs avoided by the utility.

11 Number (2). We support the Company's proposal to
12 use the Proxy/PDDRR method for avoided cost pricing for wind
13 QFs in place of the current market proxy method. The market
14 proxy method does not produce accurate avoided costs that meet
15 purpose standard of ratepayer indifference. We support the use
16 of the Proxy/PDDRR method for all renewable QFs.

17 (3) Because QFs enjoy the benefit of the PURPA
18 mandate that utilities must purchase a QF's power, the Office
19 asserts that the ownership of the renewable energy certificates,
20 or RECs, generated by QFs should belong to the Company.

21 The Office asserts that REC ownership is a matter
22 left to the states to decide and that it should be Utah state policy
23 that these RECs remain bundled with the power, and flow to the
24 Company. Accordingly, the Office recommends that the
25 Commission require all PPAs, or purchase power agreements,

1 signed with Utah QFs include a provision that the purchase of
2 electrical power include the RECs generated by the QF for the
3 benefit of the ratepayers.

4 And number (4), based on the evidence provided in
5 this proceeding, the Office recommends that the Commission
6 order the Company to calculate capacity values for renewable
7 QFs based on a Commission-determined methodology. These
8 values should be provided within 30 days of an order in this
9 proceeding, and then parties should be allowed sufficient time to
10 provide comments to the Commission before these values
11 become final and effective under Schedule 38.

12 However, if the Commission is unable to decide on a
13 capacity value methodology, the Office recommends a process
14 where a single technical conference be held and--to allow parties
15 to evaluate potential methodologies.

16 That concludes my summary.

17 MR. McDONOUGH: Thanks.

18 I don't believe I moved to have Mr. Vastag's
19 testimony--prefiled testimony, admitted into evidence, and I
20 would so move the Commission at this time.

21 THE HEARING OFFICER: Any objection?

22 It's received.

23 MR. McDONOUGH: I have no further questions and
24 Mr. Vastag is available to take cross-examination questions.

25 THE HEARING OFFICER: Ms. Hogle.

1 MS. HOGLE: I have no questions.

2 MS. SCHMID: No questions.

3 MS. HAYES: I just have a couple.

4 EXAMINATION

5 BY-MS.HAYES:

6 Q. Can I direct you to your surrebuttal testimony, lines
7 52 through 56?

8 A. Okay.

9 Q. You say a QF has the freedom to sell its power to
10 whomever it chooses; is that correct?

11 A. Correct.

12 Q. Are you saying that QFs operate in competitive
13 markets?

14 A. No, I'm saying they--they can choose to sell their
15 power to whoever they choose and not just the Company.

16 Q. In fact, hasn't Congress exempted utilities in certain
17 areas from PURPA Section 210 requirement to purchase
18 electricity from QFs when the utilities are able to prove that
19 competitive markets exist?

20 A. That's correct. There's--there's a--there are certain
21 requirements that define those competitive markets, and those
22 are typically in the East.

23 Q. Are you aware of one of Congress's reasons for
24 implementing the QF purchase agreement was to enable small
25 power producers to sell electricity into otherwise noncompetitive

1 markets?

2 A. I'm not aware if the term "competitive" was part of
3 the encouragement, but I agree with the other part of the
4 statement.

5 Q. Okay. All right. And then just moving down slightly
6 in your surrebuttal testimony, starting at line 59, you say, ". . .
7 The Office asserts that it be state policy that ratepayers receive
8 RECs generated by . . . [QFs] because ratepayers are forced to
9 buy the QF's power"; is that correct?

10 A. That's correct.

11 Q. I'm assuming that by "forced to buy the QF's power"
12 you mean forced to buy the QF's power at avoided cost rates; is
13 that correct?

14 A. That would be the requirement of the law, yes.

15 Q. Okay. And under the Office's avoided cost pricing
16 method, you would have the Company pay for energy and
17 capacity, but not for environmental attributes as components of
18 an avoided cost rate; is that correct?

19 A. That's correct.

20 Q. So is it the Office's position that ratepayers should
21 receive RECs for free?

22 A. No. The avoided cost rates under PURPA do not
23 address RECs, so RECs are outside the avoided cost pricing.
24 And the Office's position is that the--the mandatory purchase
25 obligation of ratepayers is compensation to the QF for RECs.

1 Q. So where in the Office's testimony do you propose
2 that ratepayers pay more than zero dollars for RECs if you're--if
3 you're not proposing that they get them for free?

4 A. I believe in the--further in that testimony, I discuss
5 that the requirement that--or the mandate that PURPA makes
6 ratepayers buy the power is compensation for the RECs.

7 Q. Even though you say it's your position that avoided
8 cost compensation should include no more than compensation for
9 energy and capacity?

10 A. In--in PURPA, avoided cost as defined by PURPA,
11 and FERC regulations, that's correct.

12 Q. Right. So there's no compensation for
13 environmental attributes within that calculation?

14 A. According to FERC guidance, there may not be.
15 And I don't think in Utah that there are state requirements that
16 require compensation for those environmental attributes.

17 Q. Do you agree that RECs have value?

18 A. I'm aware that RECs can be bought and sold, so
19 obviously must have value.

20 MS. HAYES: All right. No further questions.

21 MR. DODGE: No questions.

22 THE HEARING OFFICER: Mr. Simon.

23 MR. SIMON: No questions.

24 THE HEARING OFFICER: Mr. Evans.

25 MR. EVANS: I know it's getting late, but if you'll

1 indulge me, Commissioner Clark, I do have some questions for
2 the witness.

3 THE HEARING OFFICER: So long as they're
4 questions.

5 MR. EVANS: I will try to keep them to questions.

6 EXAMINATION

7 BY-MR.EVANS:

8 Q. Let me ask you: Were you here this morning when
9 Mr. Clements testified about this issue of RECs?

10 A. Yes. I've been here all day.

11 Q. Can you tell me how your position differs from Mr.
12 Clements' position on what the policy of Utah ought to be with
13 regard to the issue of RECs?

14 A. I don't think--I'm not in the position to define the
15 Company's position. I can tell you what the Office's position is.

16 Q. You can't tell me how it's different than the
17 Company?

18 A. I'm--I'm reluctant to make a conclusion on how--how
19 the Company's policy--or position differs from us.

20 Q. All right. Fair enough. Fair enough. Let me ask
21 you this: Have--you have--you have background in mathematics
22 and physics and finance; is that right?

23 A. Right.

24 Q. No training in law?

25 A. (Moves head up and down.)

1 Q. Or political science?

2 Is it--is it your view or do you have a view about
3 whether the policy that you're advocating here complies with
4 Utah law?

5 A. It is our--my view or--and the Office's view that it's
6 not clear whether Utah law makes a determination on the
7 ownership of RECs. So that is why we are asking the
8 Commission to set a policy that those RECs follow the flow of
9 energy to the ratepayer.

10 Q. Hasn't the Commission already done that in the
11 Cottonwood Hydro case? You weigh--the Office weighed in and
12 filed a recommendation in Cottonwood Hydro; isn't that correct?

13 A. That's correct. As far as I understand, it was
14 consistent with our current position.

15 Q. Yes. But didn't the--didn't the Commission order in
16 that case that RECs were--
17 well, I think we've got this, don't we, in the record already? Did I
18 make that a cross exhibit?

19 THE HEARING OFFICER: I don't think so, Mr.
20 Evans, but I can assure you I know what our order says.

21 MR. EVANS: I don't think Mr. Vastag does. So if
22 you don't mind, I'll put that in front of him and let him--again, I'll
23 read it in this time.

24 BY MR. EVANS:

25 Q. From the Commission's order: "The output of a

1 generator of a renewable energy contains two distinct
2 commodities: the power generated by the facility itself and the
3 environmental attributes of that power [that are], i.e., RECs.
4 Those commodities can be severed." Now, is it--are you
5 advocating that any--that something else is the law in Utah?

6 MR. McDONOUGH: I'll object to the extent it calls
7 for a legal conclusion.

8 BY MR. EVANS:

9 Q. Well, I'm--I'm asking him--I'll go back to my original
10 question, then. Do you know whether the policy you're
11 advocating here complies with Utah law?

12 MR. McDONOUGH: If you know.

13 THE WITNESS: I don't know.

14 BY MR. EVANS:

15 Q. That was the question: Do you know? Do you know
16 whether the policy you're advocating here is consistent with
17 previous Commission decisions?

18 A. Those are two different situations under two
19 different schedules, so I don't know if--if--if the earlier decision
20 applies in this case.

21 Q. So the answer is you don't know whether the policy
22 you're advocating is consistent with Commission decisions?

23 A. That's correct.

24 Q. Okay. All right. Let me--let me get to it, then, and
25 maybe wrap this up because I know it's getting late. You heard

1 the policy--the statement of legislative policy about why the
2 purchase obligation was imposed on the utility by the Utah
3 Legislature, didn't you? Do you want me to put that in front of
4 you again?

5 A. Yes.

6 Reading from 54-12-1(2)?

7 Q. Yes, please.

8 A. "It is the policy of this state to encourage the
9 development of independent and qualifying power production and
10 cogeneration facilities to promote a diverse array of economical
11 and permanently sustainable energy resources in an
12 environmentally acceptable manner, and to conserve our finite
13 and expensive energy resources and provide for their most
14 efficient and economic utilization."

15 Q. May I approach?

16 So if, under Utah law, the policy is to encourage the
17 development of independent and qualified power production and
18 cogeneration facilities, which better serves that policy objective,
19 to let the QF owner retain the REC or to compel the QF owner to
20 transfer the REC to the public utility for no value?

21 A. Honestly I don't feel like I'm qualified to make that
22 decision.

23 Q. But isn't that what you're advocating here in your
24 testimony? That's what you're advocating.

25 A. Can you clarify that? I don't understand.

1 Q. You're saying that it should be the policy of the
2 state of Utah that the REC goes with the QF power. And I'm
3 asking you how that serves the policy that the Legislature has
4 told us is the policy of Utah?

5 MR. McDONOUGH: I think you're asking him to
6 speculate as to what the intent of the Legislature was in drafting
7 this. He's answered the question. He doesn't know.

8 BY MR. EVANS:

9 Q. Okay. Fair enough.

10 Probe one other thing with you. In the Cottonwood
11 Hydro case, the Commission uses the word "commodities," that
12 the power is a commodity and the REC is a commodity, right?

13 A. (Moves head up and down.)

14 Q. Which--what do you think is meant by the term
15 "commodity" in that situation?

16 A. I would view the definition of a commodity as
17 something that can be bought and sold, traded.

18 Q. Owned? Can you own a commodity?

19 A. If you can buy and sell it, I would say you could own
20 it.

21 Q. How is it any different from property?

22 MR. McDONOUGH: I'll object to the extent that's
23 calling for a legal conclusion.

24 BY MR. EVANS:

25 Q. I just want to know in the general sense: Do you

1 think it's different than property?

2 THE HEARING OFFICER: Objection is overruled
3 given the qualification that he expressed in the question.

4 THE WITNESS: Honestly, this is outside of what I'm
5 comfortable with my understanding. I'm not sure if I can say that
6 it's the same as property.

7 BY MR. EVANS:

8 Q. Okay. Let's leave it at commodity, then. Are you
9 comfortable with the word commodity?

10 A. Yes.

11 Q. Okay. And if I have a commodity that has value,
12 should I be compelled--what reason can there be that I should be
13 compelled into a transaction to transfer that commodity to you for
14 zero value?

15 A. Well, I--if you're referring to the Office's policy to
16 transfer the RECs to the Company for zero value, we disagree
17 with that characterization because we think that the QF is being
18 compensated by the--by the--our obligation to purchase the
19 power, to be their customer.

20 Q. But we had that discussion this morning, didn't we?
21 The purchase obligation under--under PURPA has nothing do
22 with RECs. There is no REC on any PURPA obligation. The
23 REC was created by the Utah Legislature years and years later.
24 So if you're talking about the avoided cost that's paid for the
25 qualifying facilities' power, that's different--it's a different

1 commodity, says this Commission, from the renewable energy
2 credit.

3 MR. McDONOUGH: Is that a question?

4 BY MR. EVANS:

5 Q. The question is, do you agree that what your
6 proposal is is that you're transferring this commodity to the utility
7 for zero value?

8 A. No, I disagree with that.

9 Q. Then is it your position that you're transferring it for
10 the avoided cost?

11 A. No. The avoided cost does not include-- doesn't
12 consider RECs.

13 Q. So if you're not transferring it for no cost, aren't you
14 transferring it for some cost?

15 A. As I stated just a minute ago, we feel that the
16 benefit that the QF has by being--you know, by--by being allowed
17 to sell their power to a captive customer, in this case, the
18 ratepayers of--
19 of Rocky Mountain Power, that that is sufficient compensation for
20 the RECs.

21 Q. Okay. I don't want to go back to that one.

22 That's not what PURPA says. PURPA didn't
23 contemplate the REC for the avoided cost, did it? The REC was
24 not in that calculation for the avoided cost, correct?

25 A. Correct.

1 Q. Okay. All right. Have you looked to see
2 whether--I'm now referring to your surrebuttal testimony at line
3 52 to 54--have you investigated to see whether there is a market
4 for small renewable generators in the state of Utah apart from
5 the public utility? Are there buyers out there for this power, do
6 you know?

7 A. I can think off the top of my head of one renewable
8 producer, which would be the--I believe it's the First Wind
9 projects in the Milford area in--
10 in southern or central Utah, where they've sold their power
11 directly to a buyer and not gone through the QF process.

12 Q. Yes, but they're not a QF, are they--
13 aren't they--isn't that a 500-megawatt facility by now? It's not
14 less than 80, is it?

15 A. It's--it's been--I think it's been developed in several
16 stages and they've been smaller amounts, possibly around 80
17 megawatts.

18 Q. Do you know whether it has ever had qualified
19 facility status?

20 A. Well, the power producer, from what I understand,
21 can opt to apply for QF status, or it could opt for other options or
22 other ways to sell its power.

23 Q. But apart from Milford Wind, do you know of any
24 other?

25 A. No, I'm not that familiar with the market in Utah.

1 Q. So--so Milford Wind is the only renewable producer
2 you can think of that has found a market for its power in Utah
3 without invoking the purchase obligation under PURPA?

4 A. I don't know if it's the only one. It's the only one I'm
5 aware of.

6 Q. Okay. Thanks. Do you know who's the purchaser of
7 that power from Milford Wind?

8 A. I'm not 100 percent sure, but I believe it's the State
9 of California or organizations in the state of California.

10 MR. EVANS: Thank you, Mr. Vastag. I have no
11 more questions today.

12 THE HEARING OFFICER: Redirect?

13 MR. McDONOUGH: I have no redirect.

14 THE HEARING OFFICER: Thank you, Mr. Vastag.
15 You've excused.

16 Now, we have Mr. Brubaker and Ms. Yates who have
17 some time constraints. I think we should hear from them if
18 they're--unless there are other considerations of which I'm
19 unaware.

20 MR. DODGE: I think that would be appreciated, Mr.
21 Commissioner, thank you. So SunEdison would call Maura
22 Yates.

23 THE HEARING OFFICER: Do you solemnly swear
24 that the testimony you're about to give shall be the truth, the
25 whole truth, and nothing but the truth?

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

THE WITNESS: I do.

THE HEARING OFFICER: Please be seated.

MAURA YATES, being first duly sworn, was examined and testified as follows:

EXAMINATION

BY-MR.DODGE:

Q. Would you please state your name, your business address, your employer, and your position for the record?

A. My name is Maura Yates. I'm the director of government affairs at SunEdison, LLC. My business address is 700 Lavaca Street, Suite 1430, Austin, Texas 78701.

Q. And your position?

A. Director of government affairs.

Q. Thank you. And who is SunEdison?

A. SunEdison is the second largest solar developer in the world, with 1.2 gigawatts of solar under management, an additional 2.3 gigawatts under development. We are currently attempting to develop solar projects in Utah under Schedule 37 and Schedule 38.

Q. Ms. Yates, did you prepare, sign, and cause to be filed in this docket on May 14, 2013, a 13-page document that you entitled, "SunEdison, LLC, Comments in Response to Direct Testimony"?

A. Yes, we did.

Q. Why did you call those comments and why were

1 they not filed until May 14th?

2 A. At the time, we had not retained counsel. And it
3 was my understanding that comments--responsive comments or
4 rebuttal comments were due at that date. I did sign the
5 comments and in--with the hope that the Commission would
6 consider those comments in this case.

7 Q. Do you wish to submit those comments today as
8 your testimony in this docket?

9 A. Yes, I do.

10 Q. And do they represent your testimony here this
11 morning?

12 A. Yes, they do.

13 MR. DODGE: I'd move the admission of what I
14 would ask to be marked SunEdison Exhibit 1.

15 THE HEARING OFFICER: Objections?

16 MR. McDONOUGH: I'd object to the extent that the
17 comments submitted do not comply with the scheduling order
18 entered by the Commission in this matter, just for the record.

19 THE HEARING OFFICER: Thank you. Your
20 objection's noted, but we'll receive--receive the comments.
21 SunEdison Exhibit 1 was admitted into evidence

22 BY MR. DODGE:

23 Q. Thank you.

24 And Ms. Yates, do you have a brief summary of your
25 testimony that you'd like to provide?

1 A. Yes, I do. Good afternoon, Mr. Chairman,
2 Commissioners. My testimony includes the following primary
3 comments and suggestions regarding the Company's capacity
4 evaluation as it pertains to solar: There are several-- several
5 industry standard and appropriate ways to determine capacity
6 value for solar. Most accurate and appropriate methods are
7 probably the effective load-carrying capability, or ELCC; or the
8 equivalent conventional power, ECP method, though those are
9 complicated and data intensive.

10 A simpler, yet accurate and acceptable method is
11 the Capacity Factor Approximation method, what we'll refer to as
12 the CFAM. I interpreted Rocky Mountain Power's methodology
13 as an attempt to apply the CFAM and pointed to several areas in
14 the Company's interpreted application of the CFAM model.

15 In his surrebuttal, Mr. Duvall claims that he's not
16 attempting to apply the CFAM, but rather a statistical approach
17 called the exceedance method. Use of the exceedance
18 probability is not the industry standard or, in our opinion,
19 appropriate for determining capacity value. Given the importance
20 claimed by PacifiCorp of tying the modeling back to reliability
21 planning efforts, given its use of 100 high-load hours, and
22 because I'm unaware of any other utility that uses a P-90 to
23 calculate solar capacity value, PacifiCorp's approach resembles
24 a Capacity Factor Approximation model. In effect--

25 THE HEARING OFFICER: Ms. Yates, could you

1 slow down just a little bit, please?

2 THE WITNESS: Absolutely.

3 In effect, Mr. Duvall simply, in our opinion, blended
4 two models and ultimately arrived at a value that is not aligned
5 with the broad IRP resource portfolio efforts.

6 Mr. Duvall criticizes the ELCC and CFAM models as
7 energy-based reliability models and claims that the exceedance
8 probability method is capacity-based. His criticism is misplaced,
9 in our opinion. All of the methods, including his, are derived
10 from an hourly capacity factor calculation, which is inherently an
11 energy-based kWh measure. The only difference is how many
12 hours are used in the calculation. Mr. Duvall used 100 hours,
13 which is far too few hours to consider.

14 Expanding his analysis from the top 100 high-load
15 hours would be more appropriate from a valuation perspective
16 and more beneficial from a resource planning perspective, that
17 these are must-take resources. Note we are not advocating for
18 use of 8760 data.

19 Further, in his rebuttal, he even states that when
20 the top 100 high-load hours are used, that it is not
21 energy-focused, it is only energy-
22 focused when it is calculated for the entire year.

23 Additionally, all of the proposed capacity valuation
24 methods are attempting to measure reliability. Mr. Duvall
25 correctly notes that the meeting--that meeting the coincident

1 peak hour load is important, but it is also important and valuable
2 to ensure reliability across all high-load hours when the system
3 is stressed. For this reason, looking at an exceedance
4 probability of 90 percent, or a P-90 calculation for intermittent
5 resources failed to attribute the appropriate value to resources
6 during other hours--during the other hours when it is providing
7 reliable, peaking capacity.

8 If the exceedance probability method is used, a
9 P-50 approach would be more appropriate, as such an approach
10 recognizes the resources available during many more peak hours
11 than is recognized by the P-90 approach.

12 The Company has no real solar production data
13 that's been recognized, so it has relied on ML PVWatts for
14 historical PV generation. The use of historical estimated
15 generation compared against actual PacifiCorp system load
16 creates a series misalignment: comparing realtime actual
17 data--what the actual load was at a specific moment--to an
18 estimated average solar production for a system.

19 The major concern here is the PV production data.
20 PVWatts uses typical meteorological year, or TMY-2, data. So on
21 a hot, sunny day, for example, in the summer of August 2011,
22 the Pacific system load will reflect the actual weather conditions,
23 but the PVWatts data might reflect less sun based on the
24 average historical years. This incongruence--this is incongruous
25 and neglects to recognize the very direct relationship between

1 hot summer high-load days and the actual aligned PV
2 performance.

3 In the solar performance capacity value study in Mr.
4 Duvall's testimony, PacifiCorp holds solar production constant
5 over the five historical years. Not only is this unrealistic, but it
6 also presents an incongruous relationship, again, between solar
7 production and PacifiCorp system load.

8 My comments stated that PacifiCorp had failed to
9 address for daylight savings time. Mr. Duvall claims that
10 PacifiCorp did adjust for daylight savings time, although nothing
11 in his individual testimony or exhibits stated or confirmed that. I
12 still cannot confirm that this is correct when presented with the
13 capacity value calculations from the original study. We see
14 indications of calculation update in Figure 2 of his surrebuttal
15 testimony, which indicates that the PacifiCorp load and PVWatts
16 were adjusted for daylight savings or Pacific prevailing time;
17 however, without knowledge of this in the original study, it
18 remains unclear whether the presented capacity values in this
19 study were accurately reflecting Pacific prevailing time.

20 When calculating capacity value, it's important to
21 keep it localized--localized and specific to the region. The
22 second figure of my page 6 of my filed comments shows that the
23 capacity values vary greatly across the PacifiCorp system and
24 are strongest in Utah. When PacifiCorp uses average solar
25 production across five states, Utah ratepayers are harmed

1 because the average capacity value is lower than the Utah
2 capacity value. In Mr. Duvall's rebuttal testimony, he even cites
3 how NREL suggests that it be a utility-specific calculation and
4 stresses the correlation between local loads and local solar
5 resources.

6 Further, it's SunEdison's understanding that while
7 PacifiCorp plans on a systemwide basis, NERC reliability
8 standards require them to maintain reliability at a local balancing
9 authority level. Utah falls within PacifiCorp East Balancing
10 Authority, so at a very minimum, the capacity value should be
11 calculated based on the reliability standards for the balancing
12 authority. So, for Capacity Factor Approximation Method, CFAM,
13 this would require calculating the loss-of-load probability for the
14 balancing authority in deriving solar capacity value off that
15 regional loss-of-load probability.

16 In summary, any of the ELCC or CFAM models can
17 produce reasonable results for calculating the capacity value of
18 solar when run appropriately. To be run appropriately, however,
19 the CFAM model must use real data, and local data when
20 available, that is aligned with the actual system production data
21 for the hour and day. If data is--real data is unavailable, it is not
22 appropriate to use a five-year constant average over five days.
23 Use of a P-90 exceedance probability is also inappropriate. It
24 unfairly penalizes intermittent, renewable resources, and thus
25 does not reflect their real contribution to the system.

1 If an exceedance probability approach is used, a
2 P-50 or P-70 exceedance probability calculated on a localized
3 basis should be utilized as it produces a much more fair
4 measurement of the actual value the resource contributes during
5 the high-load hours.

6 That . . .

7 MR. DODGE: Thank you. Ms. Yates is available for
8 cross.

9 MS. HOGLE: I have no questions.

10 THE HEARING OFFICER: Ms. Hogle?

11 MS. SCHMID: No cross from the Division.

12 MR. McDONOUGH: Nothing from the Office.

13 MS. HAYES: Nothing.

14 MR. EVANS: Nothing from Kennecott/Tesoro.

15 Thanks.

16 EXAMINATION

17 BY-CHAIRMAN ALLEN:

18 Q. Ms. Yates, welcome.

19 A. Thank you.

20 Q. I don't believe in your comments you address the
21 solar integration constant which has been a concern of mine in
22 my questions today, but I believe you have been here and you
23 represent a solar company. One of my questions--I just want to
24 give you the opportunity to answer the same question I asked to
25 the Company while you're here: If we decide there's not enough

1 data to create solar integration costs or set them at this time,
2 what would be the advantages or disadvantages, as you see
3 them, to deferring to a future day when we have more data?

4 A. So SunEdison would support the movement of a
5 study to actually determine the actual value in solar integration
6 costs. We recognize that there are integration costs associated
7 with our resource, but we think it's important to have the
8 appropriate and right integration costs. So in the near term, it
9 would not impact our projects. In the long term, we would like to
10 be part of the stakeholder process to make sure that the
11 integration costs really reflect the costs of integrating our
12 intermittent resource.

13 Q. Great. Do you have any feelings about the
14 Division's 50 percent/65 percent approach? Would that be
15 appropriate in the interim or would you rather just see it deferred
16 completely?

17 A. I think if we're going to do it, we should do it right
18 and we should perform a study rather than take an estimate as to
19 what those appropriate costs are.

20 CHAIRMAN ALLEN: Thank you.

21 THE HEARING OFFICER: Any redirect?

22 MR. DODGE: No redirect. Thank you.

23 THE HEARING OFFICER: Thank you, Ms. Yates.

24 You're excused.

25 Mr. Evans?

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

MR. EVANS: Thank you. Call Mr. Brubaker.

THE HEARING OFFICER: Please raise your right hand. Do you solemnly swear that the testimony you're about to give shall be the truth, the whole truth, and nothing but the truth?

THE WITNESS: I do.

THE HEARING OFFICER: Thank you. Please be seated.

MAURICE BRUBAKER, being first duly sworn, was examined and testified as follows:

EXAMINATION

BY-MR.EVANS:

Q. Good afternoon. Please state your name and employment position for the record, please.

A. My name is Maurice Brubaker. I'm a principal and a president of Brubaker & Associates. My business address is 16690 Swingley Ridge Road, Chesterfield, Missouri 63017.

THE HEARING OFFICER: Mr. Brubaker, is your microphone on? It doesn't sound to me that it is, or it may not be close enough.

THE WITNESS: It was not. Thank you. Is that better?

THE HEARING OFFICER: Yes.

BY MR. EVANS:

Q. And are you the same Maurice Brubaker that has prepared and submitted, in this docket, testimony on behalf of

1 Kennecott Utah Copper and Tesoro Refining and Marketing
2 Company?

3 A. Yes, I am.

4 Q. And that testimony includes your direct testimony
5 marked as KUC/Tesoro Exhibit 1, rebuttal testimony as Exhibit
6 1R, with Exhibit 1.1R attached, your surrebuttal testimony
7 marked as Exhibit 1SR, with Exhibit 1.1SR attached?

8 A. That's correct.

9 Q. And if I ask you the questions today contained in
10 your prefiled testimony, would your answers be the same today
11 as in your prefiled testimony?

12 A. They would.

13 Q. Do you have any corrections to make to it?

14 A. I do not.

15 Q. Have you prepared a summary of your testimony for
16 the Commission?

17 A. I have.

18 Q. You may present it now.

19 A. Thank you. Chairman Allen, Commissioners Clark
20 and LaVar, thank you, first of all, for letting me appear a little bit
21 out of order because of my schedule problems. I'll be very brief.

22 My testimony covers two broad areas. First,
23 avoided cost calculations. I agree conceptually on a high level
24 with the Proxy/PDDRR method that Mr. Duvall has outlined in his
25 testimony. I've not gone into the particular formulas,

1 assumptions, or details of it, but in terms of a general approach
2 to determining avoided cost with the objective of making sure
3 that consumers are indifferent to the source of power purchased,
4 I think that method is--is the appropriate one.

5 I also recommended certain practices and
6 procedures to make the contracting procedure--or practice more
7 open and transparent to the parties. There's a list of items at
8 pages 5 and 6 of my direct testimony that's been the subject of
9 some discussion already today. It essentially addresses division
10 of models, data, and explanations.

11 And just to pick up on a point, we--we're certainly
12 not trying to force people to take models that they don't want or
13 don't need, but the basic point was people who want the
14 information should have a way to gather it from the Company.
15 And I think I heard the Company generally agree that that was
16 the approach that they intended to pursue, so hopefully those
17 issues have been pretty well taken care of.

18 Second issue that I addressed was the treatment of
19 RECs. RECs, of course, are attributes that are detachable from
20 the physical electricity generation. So there are really two--two
21 products here available when QFs produce power from renewable
22 resources: the electricity itself, which is a physical attribute, and
23 the REC itself, which is an intangible attribute.

24 I think it's clear to me, anyway, that the QF output
25 value equals the utility avoided costs that it can fetch, plus the

1 value of the RECs that go with that electric energy. So we
2 disagree with the notion that owners of QFs who produce
3 renewable power and RECs to go with it should be compelled to
4 turn over their RECs to the utility for no--for no value. I think if
5 that's done, the end result would be that these QFs would be
6 compensated at a level less than avoided cost, which I think is
7 not appropriate.

8 And that concludes my summary.

9 THE HEARING OFFICER: Cross-examination for
10 Mr. Brubaker?

11 MS. HOGLE: I have no questions.

12 MS. SCHMID: No questions.

13 MR. McDONOUGH: No questions.

14 MS. HAYES: No questions.

15 MR. DODGE: No questions.

16 MR. SIMON: No questions.

17 THE WITNESS: Redirect?

18 MR. EVANS: Thank you. No redirect.

19 Did I move for admission of exhibits?

20 THE HEARING OFFICER: I'm sure you did, but is
21 there objection to receiving them?

22 They're received. KUC/Tesoro Exhibits 1, 1R, 1.1R,
23 1SR, and 1.1SR were admitted into evidence

24 THE HEARING OFFICER: You're excused. Thank
25 you, Mr. Brubaker.

1 THE WITNESS: Thank you. Thank you very much.

2 THE HEARING OFFICER: Ms. Hayes, I believe that
3 brings us to--

4 MS. HAYES: Thank you, Commissioner. Utah
5 Clean Energy would like to call Ms. Sarah Wright as our witness.

6 THE HEARING OFFICER: Raise your right hand,
7 please. Do you solemnly swear that the testimony you're about
8 to give shall be the truth, the whole truth and nothing but the
9 truth?

10 THE WITNESS: I do.

11 THE HEARING OFFICER: Thank you. Please be
12 seated.

13 SARAH WRIGHT, being first duly sworn, was
14 examined and testified as follows:

15 EXAMINATION

16 BY-MS.HAYES:

17 Q. Please state your name and business address for
18 the record.

19 A. Sarah Wright. The business is Utah Clean Energy
20 and the address is 1014 Second Avenue, Salt Lake City, 84103.

21 THE HEARING OFFICER: Ms. Wright, I think your
22 microphone is off.

23 THE WITNESS: It looks like it's on. It's not. I
24 apologize.

25 Did you get that?

1 THE REPORTER: (Moves head up and down.)

2 MS. HAYES: Did you file--prepare and file written
3 testimony in this phase of the proceeding, including UCE Exhibit
4 4.0, 4.1, 5.0, 5.1, an errata to UCE Exhibit 5.1, and 6.0 and 6.1?
5 And I would just like to clarify for the Commission and parties
6 that Utah Clean Energy numbered these exhibits sequentially
7 starting with where we left off in the first proceeding, which is
8 why we start at number 4. So I apologize if that created
9 confusion. And I'll return to my questioning for Ms. Wright.

10 BY MS. HAYES:

11 Q. Did you prepare and file that testimony?

12 A. Yes.

13 Q. If you answered the same questions today as set
14 forth in your prefiled testimony, would your answers be the
15 same?

16 A. Yes.

17 MS. HAYES: I now request that these exhibits be
18 admitted to the record.

19 THE HEARING OFFICER: Objection?

20 They're received. UCE Exhibits 4.0, 4.1, 5.0, 5.1,
21 6.0, and 6.1 were admitted into evidence.

22 BY MS. HAYES:

23 Q. Did you prepare a summary that you would like to
24 present to the Commission today?

25 A. Yes, I did.

1 Q. Please proceed.

2 A. Yes. Thank you, Commissioners. And I think of all
3 the parties, I am asking the Commission and the utility and
4 others to look at avoided cost in a different way. So I have a
5 fairly substantial summary here.

6 So I'd like to thank the Commission and all the
7 parties for investigating and working on revising the methodology
8 for avoided cost for renewal qualifying facilities. Utah Clean
9 Energy strives to create a cleaner, safer, more efficient, smarter
10 energy future. The Public Utility Regulatory Policy Act, PURPA,
11 is an important mechanism for enabling renewable energy
12 development in Utah. Utah Clean Energy's interest in this docket
13 has been to ensure that the cost avoided by renewable QF
14 facilities are accounted for in the renewable--excuse me--in the
15 avoided cost methodology.

16 I'm going to try it without my glasses.

17 This will help protect ratepayers from risks
18 associated with rising and volatile fuel prices, future carbon
19 costs, and the impacts of climate change on electricity
20 generation.

21 Utilities, utility planners, utility regulators, and
22 ratepayers are facing great uncertainty with respect to the
23 implications and impacts of utility resource decisions. It's truly a
24 time when Risk Aware Regulation is critical to protect ratepayers.
25 Utilities are not at risk for rising and volatile fuel costs, carbon

1 costs, or impacts of climate change on generation, but rather,
2 ratepayers are on the hook for these costs.

3 Renewable QFs offer many risk-mitigating and
4 cost-saving benefits to ratepayers. Utilities purchase electricity
5 from renewable QFs through typically long-term power purchase
6 contracts. Because energy resources such as wind, solar, and
7 geothermal have no fuel cost and do not emit pollution or
8 greenhouse gases, renewable QFs provide valuable long-term
9 risk mitigation against rising and volatile fuel prices,
10 environmental compliance costs, potential carbon regulation
11 costs, and the actual costs associated with the changing climate,
12 actual cost on generation and cost to consumers.

13 Therefore, the methodology for calculating avoided
14 cost rates for renewable QFs should include these avoidable
15 costs. Although avoided cost pricing explicitly includes
16 compensation for avoided energy and capacity costs, these are
17 not the only costs that a utility and ratepayer avoids by
18 purchasing electricity from a renewable QF. It is Utah Clean
19 Energy's position that FERC precedent allows avoided cost rates
20 to include other real costs that can be avoided.

21 If the Commission wants to give renewables a
22 chance to compete and bring their cost avoiding benefits to
23 ratepayers, now is the time to get it right. Solar prices are at an
24 all-time low and the federal investment tax credit for solar
25 expires in 2016. The wind and geothermal production tax credit

1 may expire at the end of this year. If we fairly value the costs
2 that renewable QFs avoid in the avoided cost pricing
3 methodology, these resources may be able to compete and bring
4 benefits to Utah ratepayers.

5 The following is a brief summary of the many pages
6 that I submitted on the risk. We have a fuel risk. And as I
7 discuss in my testimony, natural gas prices are near--at an
8 all-time low, and fuel and market price risk is asymmetrical,
9 meaning that prices can't go much lower, but they can go
10 significantly higher. These risks are exacerbated by other
11 factors that are less well known: Increased supply of natural gas
12 may lead the United States to export into the global market,
13 which would have the impact of raising prices; there is an
14 insufficient track record for fracking, but shale wells may deplete
15 more rapidly than expected or the costs to recover additional gas
16 over time may be greater than expected; or new environmental
17 regulations could also increase costs. There has been quite a
18 lot of concern about the fugitive emissions with natural gas,
19 which could negate any sort of carbon benefit to natural gas
20 electricity generation.

21 Utah Clean Energy is concerned that, given the
22 current planning and modeling assumptions, the IRP is unable to
23 recognize the long-term risk mitigation of renewable resources.

24 Furthermore, the IRP did not analyze the
25 deterministic risk of a future that unfolds differently than

1 assumed by the models. Approximately 95 percent of the
2 non-DSM new resource additions in the preferred portfolio are
3 front office transactions and new gas resources. Any of us that
4 were working on energy issues in the early 2000s know that
5 unexpected events can dramatically increase gas and energy
6 prices above the forward price curve.

7 I also talked about the costs and risks associated
8 with climate change and the costs associated with carbon
9 regulation. I filed extensive testimony from recent governmental
10 assessments on the impacts and costs of climate change. The
11 Draft National Climate Assessment shows that Utah--you may
12 remember this image from my testimony--that Utah and the upper
13 Midwest are the two areas that are hardest hit by rising
14 temperatures associated with climate change under all reduction
15 scenarios. Diversification with carbon-free renewable energy
16 helps to mitigate climate change impacts and the costs
17 associated with carbon regulation.

18 No one rebutted the fact that climate change and
19 carbon would impose costs, just that they are hard to quantify.
20 Being hard to quantify doesn't make these costs irrelevant, and
21 ignoring them does not result in ratepayer indifference.

22 I make the following specific recommendations on
23 the avoided cost methodology: First, regarding the market proxy.
24 If the Commission finds that in the IRP or future IRPs--if they
25 include cost-effective renewable energy resources after a

1 thorough view of costs and risks, then avoided cost rates for
2 renewable energy QFs should be based on the proxy costs of a
3 corresponding renewable resource. It is not necessary to base
4 the avoided costs rates on the most recent RFP for that
5 renewable resource, but the rate must be based on the costs of
6 the same type of resource. For example, the cost of solar should
7 be compared to the cost of solar and the cost of wind to wind,
8 etc.

9 The IRP is updated every two years and the
10 resource costs are refreshed as well, and I'd recommend that
11 these costs be used for the proxy costs. I make one exception to
12 this recommendation: Given that solar PV prices have
13 dramatically decreased and given that the Company's costs in
14 the 2013 IRP are higher than reported by the industry, I
15 recommend that the solar proxy costs be determined by the most
16 recently published industry data. And I included a source of this
17 data information--of this information in my surrebuttal testimony.
18 And this information is put out annually, so these numbers could
19 be refreshed regularly.

20 Regarding the definition of the IRP target and the
21 timing of the renewable energy acquisition, I believe that the
22 Commission's 2005 order in Docket 03-035-14 is still in the
23 public and the ratepayers' interest. Even if the next deferrable
24 resource in the IRP is a fossil resource, if renewables are part of
25 the least-cost/least-risk plan, then a market proxy or resource

1 proxy method should apply. It is my opinion that
2 acquiring--excuse me--renewable QFs sooner is in the public
3 interest. And as I've outlined in my direct testimony, there are
4 good reasons to acquire renewable resources earlier, including
5 taking advantage of federal incentives--the PTC and the
6 ITC--securing optimal resource sites and transmission availability
7 and hedging against purchases and fuel price risk. Further, I
8 believe that with my suggested modification of using a resource
9 proxy for each type of renewable resource, such as solar is
10 compared to solar, etc., that it helps meet the three conditions
11 that were highlighted by the Division and in the Commission's
12 order as necessary for using the market proxy.

13 If you compare wind to wind and solar to solar, the
14 operating characteristics of that proxy plant will closely align with
15 those of the QF being evaluated. And because renewable
16 resources are highly modular and can be added in megawatt
17 increments, you could closely match the megawatts of whatever
18 renewable resource was put forth in the IRP as a cost-effective
19 resource, when it is part of a cost-effective IRP resource plan.

20 Adding a renewable resource in the IRP plan earlier
21 may dictate changes to system operation, but I'm not sure what
22 the Commission meant by "significantly change." Many things
23 change, plant addition and operation including changing mode,
24 changing gas prices, market purchases, the economy, levels of
25 efficiency achieved, so I can't speak to the significant impact, the

1 word "significantly," you know, what the Commission meant by
2 that.

3 But I--you know, I recognize that a renewable proxy
4 method that compares the type of renewable to the specific
5 renewable when they are part of a least-cost/least- risk plan is in
6 the public interest.

7 So now I'll go on to the Proxy/PDDRR method. So if
8 they're not part of the least-cost plan, I recommended
9 modifications to the Proxy/PDDRR method. And the reason I did
10 that is to try to account for some of those avoidable costs that
11 renewables avoid that I mentioned earlier in my summary and
12 extensively in my testimony.

13 And I explained in my testimony that avoided costs
14 does not necessarily mean lowest, most stripped costs that the
15 Company can estimate that it can avoid. Rather, avoided costs
16 should be a reflection of actually avoidable costs, including costs
17 that ratepayers would otherwise incur, based on the risk profile
18 of the utility's resource procurement decisions in the absence of
19 the QF generation. By offering renewable QFs the most
20 bare-bones cost rate, which undervalues the risk mitigation,
21 capacity and energy costs that these resources avoid, we are not
22 offering renewable QFs a fair avoided cost, and we are further
23 transferring risk to ratepayers, putting them on the hook for costs
24 that the utility could have avoided.

25 I'll summarize my proposed changes to the

1 Proxy/PDDRR one at a time. Regarding the capacity value, I'd
2 recommend that the Commission require the Company to perform
3 the Effective Load Carrying Capability method or the Capacity
4 Factor Approximation method utilizing loss of load probability, for
5 the top 10 percent of load hours, consistent with the NREL paper
6 attached to my direct testimony, and present its analysis and
7 results at a technical conference. I request that the Commission
8 then provide an opportunity for parties to review and comment on
9 the Company's analysis and results before approving specific
10 capacity values to use for avoided cost.

11 Regarding interim capacity values, I support the
12 Division or the Office's recommendation for interim capacity
13 values to use until this analysis is complete. And with respect to
14 the Office's recommendation, it would have been their
15 recommendation--I forget if it was in their rebuttal or surrebuttal.

16 I recommend that renewable QFs be compensated
17 for their capacity contribution for each year of their power
18 purchase agreements. The Company's heavily reliant on the
19 market for its resource needs over the planning horizon, during
20 its periods of so-called resource sufficiency and deficiency for
21 both periods. And in effect, the Company is a constant period of
22 resource deficiency. For example, even the addition of a
23 combined cycle unit in 2024 does not change the level of the
24 Company's reliance on front office transactions. So the
25 distinction between periods of sufficiency and deficiency is not

1 apparent. Therefore, while the Company is so heavily reliant on
2 market purchases for capacity and energy, there should be an
3 explicit capacity payment provided to QFs for the duration of the
4 power purchase agreements to reflect the reliability benefits that
5 QF resources. And while I realize that this is--the liability
6 benefits of QF resources.

7 And while I realize that this is a change from current
8 practice, renewable QFs are a physical resource. They provide a
9 capacity value at a known, fixed cost for Rocky Mountain Power's
10 ratepayers. They should be compensated for that value. The
11 price of market purchases varies with supply and demand, and
12 market purchases do not inherently incur--include a capacity
13 payment. Therefore, I maintain that renewable QFs should be
14 paid for this capacity contribution from the first year of the
15 contract.

16 A renewable QF brings capacity value, and with that
17 capacity value comes 20 years fixed energy prices. A market
18 price based on the forward price curve does not offer a fixed
19 capacity price or a fixed energy price. If prices are above the
20 forward price curve, ratepayers pay, not the Company. And as I
21 mentioned, these risks are a big asymmetrical risk, especially
22 given the really low natural gas prices right now. Therefore,
23 there's good reason to pay both energy and capacity for the QF.

24 Regarding the energy payment stream, given that
25 the two GRID models do a differential displacement and look at

1 what resources that--that energy source will displace, the QF
2 should be compensated for the energy rate as it is right now, I
3 found out, that are put forth in the two dispatch runs.

4 I'm supportive of a solar integration study. The
5 Company should conduct a solar integration study. And I hope
6 that they will take into account the new energy imbalance market
7 and real time market transactions that will occur with that in this
8 integration study.

9 And regarding RECs and paying for renewable
10 attributes, UCE's position has always been that the utility is not
11 entitled to RECs unless it pays for them; that is, RECs should
12 not be bestowed automatically through avoided cost prices
13 unless payment to the QF pricing specifically includes the cost of
14 renewable energy attributes. Utah Clean Energy has not taken a
15 position in this docket on what environmental attributes RECs
16 cover. RECs should not be conveyed for free, as recommended
17 by the Company and the Office. UCE recommended paying a
18 carbon price adder to reflect risk mitigation benefits of
19 renewables, but would refrain from taking a position on whether
20 this would constitute sufficient reimbursement for the transfer of
21 RECs to the utility.

22 I acknowledge that determining the costs that
23 renewable QFs can avoid, given their zero fuel costs and zero
24 emissions, is difficult, but the fact that it's difficult does not make
25 these avoidable costs zero. It does not make the ratepayer

1 indifferent to higher costs associated with fuel costs being in
2 excess of the forward price curve or costs imposed by the
3 environmental impacts or the costs imposed by regulation.

4 If we were certain that the forward price curve
5 would--was correct, the Company would not have requested an
6 energy balancing account or energy cost adjustment mechanism,
7 and we would know what rates would be for the next 20 years. If
8 fuel prices rise above the forward price curve, or if we have
9 insufficient water to provide our planned hydroelectric resources,
10 or if temperatures are such that our air-cooled units will work
11 less efficiently, or if wildfires take down transmission lines,
12 customers are not indifferent to these increased costs. These
13 are all costs that renewables help mitigate. I understand it is
14 difficult to get a value on these avoidable costs, but again, the
15 cost to ratepayers is not zero.

16 Regarding the avoidable natural gas hedge value, in
17 my direct testimony, I showed analysis that looked at costs of
18 natural gas being just 25 percent higher than the forward price
19 curve and how that would impact the price. I have also--excuse
20 me--just since the year 2000, we have experienced the impact of
21 natural gas prices being significantly higher than the 25 percent
22 increase that we analyzed. I also suggested a method to look
23 backward at fuel hedging costs.

24 If the Commission finds it too difficult to put a
25 specific value on these avoidable costs, it is critical, at a

1 minimum, to follow FERC precedent and allow and award the
2 RECs to the QFs unless the Company specifically pays for the
3 RECs and also to modify the avoided costs method according to
4 my recommendations such that the QF is compensated for the
5 full locked-in capacity value that it provides to ratepayers from
6 the first year it was built and to pay the QF for the energy
7 payment derived from the GRID runs.

8 In my surrebuttal testimony, I responded to the
9 Division's position with an analogy, which I thought was a good
10 one, that risk-associated costs are unknowable and they will not
11 be incurred unless a risky event takes place. For example, the
12 costs and risks of homeowners associated with flooding only
13 occur if there is a flood or the homeowner buys flood insurance.
14 Flood risk level depends on the location of your home. If your
15 home is built in an area prone to flooding, it is likely you will
16 incur these costs and if you're wise, you'll purchase flood
17 insurance. Given the consensus among climate scientists and
18 the costly impacts of planet change that I discussed at length in
19 my testimony, coupled with the fact that natural gas price risk is
20 asymmetrical, the risks that real and measurable costs
21 associated with climate change, carbon regulation, and the costs
22 associated with asymmetrical fuel risk will impact ratepayers is
23 very likely.

24 So, in other words, we are in an area prone to
25 flooding. Modifying the Proxy/PDDRR method to pay the full

1 capacity value and energy value of a renewable QF is analogous
2 to purchasing flood insurance if you live in a floodplain.

3 While the QF is not compensated for all avoidable
4 costs, they will at least be compensated for the full energy and
5 the full capacity value it brings to the system. And if these
6 adjustments enable it to compete--I can't guarantee that--but if it
7 does enable them to compete, then ratepayers will receive the
8 benefit of their insurance.

9 Finally, with regard to the proposed changes, I
10 would not be opposed to the Commission putting a megawatt cap
11 on this methodology. I know that I'm proposing something new.
12 I know that I'm asking the Commission to look at avoidable costs
13 that we haven't traditionally looked at. But the Commission
14 could approve a methodology for, say, four 80-megawatt projects
15 or a cumulative 320 megawatts of renewable QFs under this
16 new--of this proposed change, and then subject and in
17 continuation of this methodology to a review of the method and a
18 review of the results.

19 One final point of clarification is the QF resource
20 stack question that's been discussed today. And I had a little bit
21 more clarity, but I did make one recommendation in my
22 testimony. And--
23 and that would be if--if--I don't know if the price changes or--so
24 maybe we should look into it more--I would ask the Commission
25 to look into this issue more and in my testimony, I made one

1 recommendation. I don't know if that's the right
2 recommendation, but there are issues of a QF being--QFs that
3 are in the stack that will never be built that are impacting costs
4 associated with QFs that, you know, could be built.

5 And that concludes my summary. Thank you very
6 much.

7 MS. HAYES: Thank you, Ms. Wright.

8 Ms. Wright is available for cross-examination.

9 THE HEARING OFFICER: Ms. Hogle.

10 MS. HOGLE: Company has no questions.

11 MS. SCHMID: The Division has no questions.

12 MR. McDONOUGH: I've just got a few questions.

13 EXAMINATION

14 BY-MR.McDONOUGH:

15 Q. Ms. Wright, I've just got a few questions regarding
16 the components of avoided cost that you've testified to in both
17 your direct and surrebuttal testimony. If you'd please look at
18 page 6, at line 108 of your direct testimony and line 108, you've
19 got a caption there that reads, "Avoided Costs Should Include
20 Risk-Associated Avoidable Costs." And then beginning at line
21 112, you state, "'Avoided costs' does not necessarily mean the
22 most stripped, barest costs the Company can estimate it will
23 avoid. Rather, avoided costs should be a reflection of actually
24 avoidable costs, including costs the Company would otherwise
25 incur in the absence of QF generation based on the risk profile of

1 its resource procurement decisions." Is that a correct reading of
2 your testimony?

3 A. Yes.

4 Q. And then on the following page, beginning at line
5 117, you go on to assert that, "Although avoided cost pricing
6 explicitly includes compensation for avoided energy and capacity
7 costs, these are not the only costs a utility avoids by purchasing
8 electricity from a renewable QF. There are"--"there are
9 significant risk-associated costs that are avoidable through
10 renewable QF electricity purchases." And again, that's a correct
11 reading--

12 A. Yes.

13 Q. --of your testimony there?

14 In some of these risk-associated costs that you
15 claim are avoidable, in both your summary that you just read, as
16 well as your--the balance of your testimony, you refer to certain
17 additional factors, mitigation factors, such as mitigation against
18 rising fuel costs, fuel price volatility, environmental compliance
19 costs, potential carbon regulation costs and the actual costs of a
20 changing climate. Is that a fair characterization of your
21 testimony?

22 A. Yes.

23 Q. I didn't quote that verbatim.

24 A. That's fine.

25 Q. And in support of your position to include these

1 additional factors as cost adders, at lines 352 to 362 of your
2 surrebuttal testimony--

3 A. Just a second.

4 Q. --you cite to and you quote from an October 21,
5 2010, FERC decision involving the California Public Utilities
6 Commission; is that correct?

7 A. Yes, it is, but let me find it. Where are you?

8 Q. It is page 16 of your surrebuttal, lines 352 to 362.

9 A. Yes.

10 Q. Okay. Could you please read those lines into the
11 record?

12 A. The FERC lines?

13 Q. Yes, 352 to 362.

14 A. Certainly. "The Commission has previously found
15 that an avoided cost"--that's too close. Sorry, guys.

16 " . . . that an avoided cost rate may not include a
17 'bonus' or 'adder' above the calculated full avoided cost for [sic]
18 purchasing"--"for [sic] the purchasing utility" Excuse me.
19 I'm going to take a drink of water.

20 I'll start from the beginning. "The Commission has
21 previously found that an avoided cost rate may not include a
22 'bonus' or 'adder' above the calculated full avoided cost of the
23 purchasing utility to provide additional compensation . . . for
24 example, environmental externalities above avoided costs. But if
25 the environmental costs 'are real costs that could be incurred by

1 utilities,' then they 'may be accounted for in the determination of
2 avoided cost' Accordingly, if the CPUC bases the avoided
3 cost 'adder' or 'bonus' on an actual determination of the expected
4 costs of [the] upgrades to the distribution or transmission system
5 that the QFs will permit the purchasing utility to avoid, such an
6 'adder' or 'bonus' would constitute an actual avoided . . .
7 determination and would be consistent with PURPA and our
8 regulations."

9 MR. McDONOUGH: May I approach the witness?

10 THE HEARING OFFICER: Yes.

11 BY MR. McDONOUGH:

12 Q. Ms. Wright, you've been handed what will be marked
13 as the Office's Cross-Examination Exhibit No. 1. Do you
14 recognize this document?

15 A. Yes.

16 Q. What is it?

17 A. It is the 2010 order that we just--that I--the excerpt
18 is in my testimony.

19 Q. Okay. Would you please turn to paragraph 31 on
20 page 15 of the decision? And as you just indicated, I believe,
21 paragraph 31 contains the language which is in your testimony
22 that I just had you read into the record, correct?

23 A. It is.

24 Q. There's some additional language in that paragraph
25 that you omitted from your testimony. And what I'd like you to

1 do, if you would, please, is read into the record the very last
2 sentence of that paragraph 31 on page 16, beginning with the
3 words, "We also note."

4 A. I'm sorry. I have to take off my glasses to read this.
5 "We also note that although the state may not include a bonus or
6 . . . adder in . . . avoided cost rate unless it reflects actual cost
7 avoided, a state may separately provide additional compensation
8 for environmental externalities, outside the confines of, and in
9 addition to, the PURPA avoided cost rate, through the creation of
10 renewable energy credits."

11 Q. Okay. Doesn't this last sentence mean that an
12 adder or a cost beyond energy and capacity costs cannot be
13 included in the avoided cost rate unless it reflects actual costs
14 avoided?

15 A. Well, I'd have to go back through my notes on the
16 FERC rulings, but they also look at different time horizons and
17 they allow looking at different time horizons. And it's actual
18 costs over what time. Is it today what we think the actual costs
19 are or actual costs that are likely? So an environmental adder
20 might be a REC. But the fuel volatility, for instance, would
21 be--could be--would be an actual cost if the cost is not fuel costs
22 do not proceed forward like our forward price curve as is likely
23 the case.

24 Q. What about in your summary--and I don't recall
25 seeing this in your testimony, but in the summary you just read,

1 you made a comment, quote, risks are likely, talking about all the
2 risks that you were referring to. And you said risks are likely. Is
3 something being likely the same as it being actual?

4 A. Well, and that's one of the reasons that I sort of
5 defaulted back to that if the Commission thinks that these costs
6 are too hard to calculate, that you just pay--that they pay the QF
7 its full capacity value, the capacity value that it brings to the
8 system over the entire time, and to--and pays the energy rate.
9 And buying insurance is a cost that everyone does when we're
10 facing uncertain times. If you live in a floodplain, you're going to
11 buy insurance, and by paying the full capacity payment and the
12 full energy payment, it's equivalent to buying insurance, which is
13 a real cost.

14 MR. McDONOUGH: Thank you.

15 Move for the admission of Exhibit--
16 Cross-Examination Exhibit 1.

17 THE COURT: Objections? It's received. OCS Cross
18 Exhibit 1 was admitted into evidence

19 BY MR. McDONOUGH:

20 Q. Ms. Wright, I'd like to transition to one of the
21 specific examples you reference with regards to an avoidable
22 cost. And if you would please direct your attention to your
23 rebuttal testimony, at page 20, line 432.

24 THE HEARING OFFICER: Mr. McDonough, would it
25 be an appropriate time for a five-minute recess?

1 MR. McDONOUGH: It would. I don't think I'm going
2 to be longer than maybe five or ten minutes. But if that's--if
3 that's--

4 THE HEARING OFFICER: Why don't you continue,
5 and let's see if--

6 MR. McDONOUGH: I'll run through this quickly
7 if--I've got no objection if everybody wants a break.

8 THE HEARING OFFICER: Well, I think--let's take a
9 break, just five minutes, if you don't mind. So we'll reconvene at
10 quarter till.

11 (Recess taken, 4:38-4:44 p.m.)

12 THE HEARING OFFICER: We'll be on the record.

13 Thank you, Mr. McDonough, for that indulgence.

14 And we're back to you.

15 MR. McDONOUGH: Thank you.

16 BY MR. McDONOUGH:

17 Q. Okay. Ms. Wright, I wanted to transition a little bit
18 into one of your specific examples, that of the inevitable carbon
19 regulation, and so what I would like to do is to direct your
20 attention to your rebuttal testimony at page 20, line 432. And
21 there you state, "The cost of inevitable carbon regulation is one
22 such avoidable cost. And then on the next page, starting at line
23 438, you state that in your view, it is inevitable the carbon will be
24 regulated and there will be a cost for that. Is that a correct
25 characterization?"

1 A. Yes, it is.

2 Q. Okay. So is it your position that because at some
3 undefined point in time, carbon will be regulated and there
4 should be a cost attached to carbon emissions factored into
5 avoided costs right now today?

6 A. Well, in--in my testimony, I did some calculations
7 based on the IRP numbers about levelizing that cost back to
8 today's value. And I stopped short of saying whether that would
9 be a REC value if that would constitute ownership of RECs, so if
10 the RECs are bestowed to the QF owner, then you you wouldn't
11 have to pay for a carbon adder.

12 Q. So you're not saying necessarily that because there
13 might be a cost imposed, somewhere down the line, at some
14 undefined point in time, there shouldn't be--there should be a
15 cost--there should be an added cost right now, today?

16 A. I--I calculated it and I showed the value, how much
17 it would cost based on the IRP--

18 Q. Today?

19 A. --numbers, based on today. And then I stopped
20 short of saying whether or not that would constitute ownership of
21 RECs if the Company paid for that. If the Company doesn't pay
22 for that, then those RECs or that--those environmental attributes
23 would stay with the QF.

24 Q. Okay. Let's turn to page 24 of your rebuttal
25 testimony where you set forth Table 2. And this table shows the

1 impact of some possible carbon tax scenarios, correct?

2 A. These are the scenarios from the IRP.

3 Q. Okay. Do you agree that there's quite a wide range
4 of possible outcomes here?

5 A. Yes. The--the Company, their base case, what they
6 call their base case was a very low adder that's much lower than
7 what I'm hearing from some of the other reading I've done. Their
8 high case didn't start until 2020 and it started low, but it did
9 escalate, and I agree that there is a range.

10 Q. Okay. So consistent with the numbers shown here,
11 is it your position that the Commission should at this time build a
12 \$3.44 per megawatt hour into the avoided cost or as much as
13 \$18.50 per megawatt hour?

14 A. Well, in my testimony, I wrote a--I thought that the
15 medium case, the high case would be the reasonable case, but
16 again, as I've said--and maybe this contradicts my testimony, but
17 it's really semantics. I didn't make the conclusion about whether
18 that would constitute ownership of RECs I recommended the \$9
19 value, but I'm not saying that the Commission necessarily add a
20 \$9 value with--unless RECs are owned--unless they want to buy
21 the RECs. The Commission has the authority to set a REC price.

22 Q. Okay. So given your view that carbon regulation is
23 inevitable, but we don't know when or how much it's going to be,
24 would it be reasonable for the Commission to enter an order at
25 this time requiring PacifiCorp to--to include carbon taxes in its

1 avoided cost formula only after such taxes are absolutely
2 implemented by either the state or federal level? Would that
3 satisfy your concerns?

4 A. Yeah, my position is that if they don't pay this, then
5 the RECs go with the--you know, if they don't pay for the
6 environmental attributes, then the RECs should stay with the QF
7 developer unless they pay for those attributes.

8 Q. Okay. Thank you. If you would please turn to your
9 surrebuttal testimony, at lines 370 to 372?

10 A. I'm there. Thank you.

11 Q. Would you please read--read that section into the
12 record?

13 A. "'Both section 210 of PURPA and our regulations
14 define avoided costs in terms of costs that the electric utility
15 avoids by virtue of purchasing . . . the QF. The question, then,
16 is what costs the electric utility is avoiding.'"

17 Q. Okay. And are you saying that this quote justifies
18 the environmental adders to avoided cost pricing that you're
19 advocating for?

20 A. And if you--in the last part of my surrebuttal
21 testimony, I said that if the Commission finds adders are difficult
22 and I was really focusing on the fuel risk part of it, that the
23 renewables and the front office transaction risk part of it, that
24 they could just pay the full capacity cost and the full energy price
25 is where my final, you know, position is. These costs are not

1 zero. And so if we set these costs so low that you were not
2 paying for the capacity and the energy that these systems are
3 bringing, then they won't get billed and they won't offer any
4 hedge.

5 Q. I'd like to direct your attention to Cross-Examination
6 Exhibit No. 1 that you read from moments ago, that FERC
7 decision. And if you would please look at paragraph 26, on page
8 12, of the FERC decision--

9 A. I'm there.

10 Q. Okay. And that's a portion--a portion of the decision
11 which you just quoted into the record, correct?

12 A. Yes.

13 Q. Okay. Now, would you please read into the record
14 the balance of that FERC decision?

15 A. "Under the Commission's regulation, a state may
16 determine that capacity is being avoided, and so may rely on the
17 cost of such avoided capacity to determine the avoided cost
18 rate."

19 Q. "Further . . . "

20 A. Oh, down beyond this? Sorry. "Further"--and go to
21 the next page. Sorry. "Further, in determining the avoided cost
22 rate, just as a state may take into account the cost of the next
23 marginal unit of generation, so as well may the state take into
24 account obligations imposed of that [sic] state . . . , for example,
25 utilities purchase energy from particular sources of energy for

1 the [sic] long duration. Therefore, the CPUC may take into
2 account actual procurement requirements, and resulting costs,
3 imposed on utilities in California."

4 Q. Okay. So based on that passage, do you agree that
5 FERC regulations allow the state to rely on the cost of avoided
6 capacity as a factor in determining avoided cost rates?

7 A. Yes. And it leads to the question of whether front
8 office transactions include capacity and if that capacity rate is
9 guaranteed or just for the first five years.

10 Q. Okay. In that same passage, what guidance does
11 FERC give to the states on what it may take into account in
12 determining the avoided cost rate?

13 A. Yes, the state may determine that.

14 Q. Well, and based on what? Does it not state that the
15 cost of the next marginal unit and actual procurement
16 requirements imposed on utilities in California? So this is a
17 California decision. It's from--it's a California case. And what
18 this is saying is that not only the cost of the next marginal unit,
19 but the actual procurement requirements can be taken into
20 account?

21 A. Right. And I--I agree.

22 Q. Okay. And the State of California imposes
23 procurement requirements on its utilities through its RPS; is that
24 correct?

25 A. Yes.

1 Q. Okay. Do you know if Utah has such a requirement
2 that it imposed--the RPS imposes--

3 A. It does say shall if it's cost-effective, when taking
4 into account risk and other factors.

5 Q. Is it an absolute mandate or is it a goal?

6 A. No, it is a mandate.

7 Q. It is a mandate? Okay. And you're claiming that
8 this--this case--and I don't know if this is the one specifically you
9 were referring to in your summary, but you said the FERC
10 decisions provide precedent for the positions that you're
11 advocating?

12 A. The FERC position that I was talking about and I'm--
13 what I'm relating to the costs that you can put costs that are
14 actually avoidable are the costs that you can include in an
15 avoided cost rate.

16 MS. HAYES: And I'm just going to object to this line
17 of questioning to the extent it's calling for legal conclusions.

18 THE HEARING OFFICER: We've had a lot of
19 conversation about what orders mean and statutes mean
20 and--and I think in--in the--in that spirit, we'll receive Mrs.--or
21 Ms. Wright's answer to the question, recognizing that she's not a
22 lawyer as other witnesses have not been.

23 THE WITNESS: And I was referencing the statute
24 where it says that you can include costs that could be avoided.
25 What I'm looking for is how do you mitigate risk for ratepayers,

1 how do you look at the costs that will actually be avoiding and
2 how can you possibly look at developing an avoided cost
3 methodology that captures those avoidable costs.

4 BY MR. McDONOUGH:

5 Q. And I was under the impression you were citing that
6 passage in that case as precedent, which--for what you're
7 advocating here, which we would be operating on a different set
8 of mandates or requirements, but you've answered my question.
9 Thank you.

10 A. Thank you.

11 Q. I'd like to talk to you just a little bit about capacity
12 credit issues. If you could look at page 11 of your surrebuttal,
13 beginning at line 233. And you discuss there the issue of
14 whether the Proxy/PDDRR method compensates QF's properly
15 for capacity during the resource sufficiency period.

16 A. I'm sorry. What line are you on?

17 Q. Well, it's at page 11, beginning with line 233--

18 A. Okay. Thank you.

19 Q. --of your surrebuttal. And in your testimony, on the
20 next page, at--beginning at line 247, 248, you talk about supply
21 and demand driving prices up in the summer, but isn't this issue
22 really whether a front office transaction, as modeled in the GRID,
23 is--is a firm product?

24 A. Well, as was discussed earlier this morning, when
25 Mr. Duvall was on the stand, that--

1 and I think he said the first five or six year prices might be firm,
2 but after that, it's all a projection.

3 Q. Would you agree that front office transactions are a
4 firm--are firm products?

5 A. I would agree that they are, but you have no idea
6 what the price will be.

7 Q. Okay. Would you agree--

8 A. And availability is a question as well.

9 Q. Would you agree that these firm products, you'd
10 carry a higher price in the market than a nonfirm product?

11 A. I am not a market trader.

12 Q. Okay. Would you agree, then, that if a QF avoids a
13 higher price, firm FOT, that the QF being--it is being
14 compensated for capacity?

15 A. No. And I'll--I'll relate back to--I'm not an expert in
16 this field, but I'll relate back to Hayet's testimony in this case
17 where he said that you--he explicitly--and I don't know if I have
18 that part of it-- "Just because market prices appear to be above
19 costs"--actually, I'm on line 240 of my testimony and this is
20 from--this is from--I think this is from Mr. Hayet's testimony. Let
21 me make sure.

22 "Just because market prices"--"market energy prices
23 appear to be above the costs to actually generate energy, I
24 would not consider the premium to be a capacity charge in the
25 context of calculating avoided . . . costs. In this case, I view the

1 premium as simply caused by the normal market forces of supply
2 and demand."

3 I'm not an expert in this area. I went back to that
4 page and looked at that language and talked to others. And the
5 other thing is that front office transactions, you may have a firm
6 price for the first five to six years, but after that, we have no
7 clue.

8 Q. Okay. So to an extent, then, you're relying on Mr.
9 Hayet's testimony ten years ago for your position now?

10 A. I don't think the market has changed that much
11 since then.

12 Q. In the last decade, the market hasn't changed to
13 become more liquid?

14 A. Well, I'm not talking about liquidity. I'm talking
15 about how it works, market principles.

16 Q. So overall, generally speaking, you don't think that
17 the market has changed in the last decade?

18 A. I didn't say over--I said the market principles.

19 Q. Okay. Did you know the mechanics of the GRID run
20 that Mr. Hayet envisioned when he tendered his testimony a
21 decade ago in the 2003 docket?

22 A. It was looking at a different GRID methodology
23 where they looked at--and I'd have to go back and refresh
24 myself, but it was a different capacity payment based on a
25 number of months, payment in a number of months.

1 Q. Was he talking about avoided energy costs or
2 avoided capacity costs?

3 A. In this, he was talking about the capacity--paying for
4 both the energy and the capacity.

5 Q. Okay.

6 MR. McDONOUGH: Thank you. I don't have
7 anything further.

8 THE HEARING OFFICER: Thank you.

9 Other cross-examination?

10 MR. DODGE: No questions.

11 MR. SIMON: No questions.

12 MR. EVANS: No.

13 EXAMINATION

14 BY-THE HEARING OFFICER:

15 Q. I have a couple of questions, Ms. Wright. First, in
16 the situation where the Company's least-cost/least-risk IRP
17 selects a renewable resource that is wind and the entity seeking
18 avoided cost pricing is solar, what's your recommendation?
19 What becomes the proxy in that situation?

20 A. To be honest, I haven't thought of that. I don't know
21 if you would just--that is a tricky one, because, you know, they
22 have different supply profile--profiles. So I would have to think
23 about that and if you wanted me to think about that, I can put it
24 in my brief, but I haven't--unfortunately, I haven't thought
25 through that.

1 Q. Thank you. Regarding your statements, particularly
2 in the summary about firm capacity or--I'm sorry--full capacity
3 payments, that the QF should receive full capacity payments
4 from year one, I--

5 A. Right. And can I clarify what I mean by full capacity
6 payments? I mean, based on their--whatever capacity value that
7 they bring to the system based on whatever commission ruling,
8 however you rule, that should be done.

9 Q. So you're not talking about simply somehow
10 disaggregating the avoided market purchase into a capacity
11 component and an energy component, you're talking about
12 capacity costs in addition to that? Am I correct?

13 A. Yes, that's correct.

14 Q. And again, I think you may have just answered
15 this--well, a moment ago, but would you clarify again, what is--in
16 your mind, what is the full capacity payment?

17 A. So that would be based on--I based it based on the
18 current method, which is looking at the next deferrable resource,
19 so the next deferrable--whatever the next deferrable resource is
20 in the IRP and then you do the--and I don't know how the
21 calculation is done, but it's the same calculation that would be
22 done that's done today, except for you start paying--you don't
23 wait until that resource would come in. You start paying that as
24 soon as that resource comes in and provides value.

25 You know, another reason for this--and I don't know

1 if the Commission would want to look at this, but they're relying
2 very heavily on--the Company's relying and ratepayers are
3 relying very heavily on front office transactions. So my position
4 is that we're really never capacity sufficient, because we're
5 relying on the market for over 1,000 megawatts of front office
6 transaction in all years except for the first couple.

7 THE HEARING OFFICER: Any questions?

8 COMMISSIONER LeVAR: I have one, just as a
9 clarification.

10 EXAMINATION

11 BY-COMMISSIONER LaVAR:

12 Q. From what I heard from your testimony on
13 cross-examination, am I viewing your testimony correctly that
14 you're viewing the environmental risk mitigation costs and the
15 concept of the QF keeping the RECs as an either/or proposition?
16 Is that correct?

17 A. So RECs include the environmental attributes,
18 which--it's interesting, because they're defined separately in
19 every state. So if the Company were--and there's also
20 risk--there's--I talked about risk from three different
21 perspectives: from fuel and market purchase risk, from actual
22 risk associated with climate and how that will affect generation,
23 and then from the risk associated with future regulation. And the
24 risk associated with future regulation and that cost of regulation,
25 that is encompassed in renewable attribute.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

Did I answer your question?

Q. I think so.

THE HEARING OFFICER: Redirect, Ms. Hayes?

MS. HAYES: No, thank you.

THE HEARING OFFICER: You're excused.

THE WITNESS: Thank you.

THE HEARING OFFICER: Thank you, Ms. Wright.

Mr. Simon?

MR. SIMON: Thank you, Commissioner Clark.

Scatec North America would like to call Mr. Luigi Resta to the stand.

THE HEARING OFFICER: Do you solemnly swear that the testimony you're about to give shall be the truth, the whole truth, and nothing but the truth?

THE WITNESS: I do.

THE HEARING OFFICER: Thank you. Please be seated. LUIGI RESTA, being first duly sworn, was examined and testified as follows:

EXAMINATION

BY-MR.SIMON:

Q. Can you please state your name for the record?

A. My name is--is this on? It's gone off a couple of times. Can you hear me?

THE HEARING OFFICER: It's not on. There's a switch, the base.

1 MR. SIMON: See if the green light's on.

2 THE WITNESS: There we go. How about now?

3 Yes.

4 My name is Luigi Resta. I'm the CEO of Scatec
5 Solar North America. We are a global solar development
6 company. And my charter is North America. My location is--my
7 headquarters is San Francisco--Sausalito, actually. The address
8 is 2320 Marinship Way, Suite 300. ZIP code is 94965.

9 Q. Did you have testimony and exhibits prepared for
10 this proceeding?

11 A. Yes, I did.

12 Q. And are--is it your testimony exhibits consist of the
13 direct testimony of Luigi Resta for Scatec filed on March 29th
14 and the surrebuttal testimony exhibit filed on May 30, 2013?

15 A. Yes, it does.

16 Q. Do you have any corrections to your prefiled written
17 testimony?

18 A. No, I do not.

19 Q. If I were to ask you today the same questions that
20 are posed to you in that prefiled written testimony, would your
21 answers today be the same?

22 A. Yes, they would.

23 MR. SIMON: Commissioner Clark, Scatec North
24 America would like to move Scatec's Exhibits--I believe we've got
25 them labeled as Exhibits 1, 2 and 2.1, the prefiled exhibits, move

1 them into evidence.

2 THE HEARING OFFICER: Any objection?

3 They're received into evidence. Scatec Exhibits 1, 2,
4 and 2.1 were admitted into evidence.

5 BY MR. SIMON:

6 Q. Mr. Resta, could you please go ahead and give a
7 little summary of the Iron County project and Scatec, as well as a
8 summary of your testimony?

9 A. Yes, I can. First of all, which is not included in
10 here, but we do have a project that we've been under
11 development for the last about five years in Iron County. As
12 everybody is aware, utility-scale solar projects take a long time
13 to develop, and there are significant benefits that we do have in
14 the market today associated with a utility scale project like
15 that--like this, which is not necessarily captured here.

16 But they have to do with the investment tax credit
17 from the federal side, the low cost of debt that's currently
18 available for projects like this and the fact that the system costs
19 have come down so significantly that we're at a competitive place
20 in the market today. Also the different geographical locations
21 where solar projects are located have a significant impact on the
22 economics of the cost of the power that they can produce and
23 provide to the ratepayers.

24 First, I urge the Public Service Commission of Utah,
25 the Commission, to follow its precedent in Docket No. 10-035-15,

1 In the Matter of the Complaint of Cottonwood Hydro, LLC, vs.
2 Rocky Mountain Power, report and order issued May 27, 2010,
3 Cottonwood, and find that absent a negotiated contractual
4 provisions to the contrary, the qualified facility, QF, that sells to
5 a utility under PURPA, whether wind or solar or other, retains the
6 rights to any renewable energy credit, RECs, associated with
7 that QF because the avoided cost price does not account for the
8 environmental attributes of renewable energy.

9 This position is consistent with FERC standard,
10 which provides that if a state has determined that RECs or any
11 other environmental attributes can be unbundled, or separated,
12 from the underlying energy, then a state is prohibited from
13 requiring a QF to transfer the RECs to the utilities for a
14 traditional avoided cost contract. Through statute, Utah state
15 law already has established that RECs can be separated from
16 the underlying energy.

17 Second, I suggest that PacifiCorp is
18 capacity-deficient to the extent that it must rely on firm power
19 purchases in the market to obtain sufficient capacity to serve its
20 customers and meet its required reserves. Due to this capacity
21 deficiency, FERC in one location of PURPA would require
22 PacifiCorp's avoided cost contract to provide a QF both energy
23 and capacity payments if PacifiCorp can rely on the QF to avoid
24 firm power purchases in the market.

25 Third, I advocate that PacifiCorp adopt a solar

1 specific market proxy price methodology and include an
2 appropriate amount of solar power in its integrated resource
3 plan, IRP.

4 Fourth, I contest PacifiCorp's capacity contribution
5 estimates for solar resources. PacifiCorp's evaluation of solar
6 capacity factor underestimates the capacity factor likely to be
7 achieved by a project in southern Utah, such as the Scatec
8 project that we just discussed. Southern Utah boasts one of the
9 best solar environments in the country. PacifiCorp did not
10 consider equality of this resource in its capacity contributions.

11 Lastly, I explain how PacifiCorp's avoided cost
12 methodology does not account for the valuable role large- scale
13 solar plays in a hedge against regulatory and price uncertainties.

14 That concludes my summary.

15 MR. SIMON: Commissioners, Mr. Resta is available
16 for cross-examination.

17 THE HEARING OFFICER: Thank you.

18 Ms. Hogle.

19 MS. HOGLE: I have no questions.

20 THE HEARING OFFICER: Ms. Schmid.

21 MS. SCHMID: No questions.

22 THE HEARING OFFICER: No questions.

23 MR. McDONOUGH: No questions.

24 MS. HOGLE: No questions.

25 MS. HAYES: No questions.

1 MR. SIMON: No questions.

2 THE HEARING OFFICER: Chairman Allen.

3 CHAIRMAN ALLEN: Thank you, Commissioner
4 Clark.

5 EXAMINATION

6 BY-CHAIRMAN ALLEN:

7 Q. Since you are a developer that falls along the lines
8 of my earlier questions, if we were to determine we just don't
9 have enough information, I know you didn't really address in
10 much detail, if I remember right from the testimony, solar
11 integration costs, but if we were to determine that we can't rule
12 on that now and it needs to be moved to further investigation or
13 a study, does that create uncertainty that you're not--it doesn't
14 work for your project, or are there other things we should know
15 about if we do that--if we were to do that?

16 A. No, I agree with your position that it would be good
17 to do a study. I think it would be detrimental to the project to
18 apply those costs today, but if we could model it, the way I see
19 the industry moving as a whole is forecasting and scheduling is
20 an incremental part of solar development and intermittent
21 resources into GRIDs, and so there's definitely going to be a cost
22 with that integration. We just don't know what it is.

23 CHAIRMAN ALLEN: Thank you.

24 THE HEARING OFFICER: Any other questions?

25 COMMISSIONER LeVAR: No.

1 THE HEARING OFFICER: Redirect?

2 MR. SIMON: None. Thank you.

3 THE HEARING OFFICER: Thank you. Mr. Resta,
4 you're excused.

5 Mr. Vrba.

6 Would you raise your right hand, please. Do you
7 solemnly swear that the testimony you're about to give shall be
8 the truth, the whole truth, and nothing but the truth?

9 THE WITNESS: Yes, I do.

10 EXAMINATION

11 BY-THE HEARING OFFICER:

12 Q. Thank you. Mr. Vrba, I note for the record that
13 you're not represented by counsel today?

14 A. That is correct.

15 Q. And I don't know whether any--you've made
16 arrangements with anyone here to assist you with this process of
17 entering your testimony into the record.

18 A. I don't have any legal counsel, nor have I engaged
19 any legal counsel to assist me with this.

20 Q. So I have in front of me your direct testimony and
21 surrebuttal testimony.

22 A. That's correct.

23 Q. Are those the two documents that you provided to
24 the Commission?

25 A. That is correct.

1 Q. And do you have--wish to make any corrections to
2 these?

3 A. Yes, there's one that I believe I would like to make.
4 And that would be on the direct testimony. And the last page,
5 page 6, actually, point 93, 94, I produced this statement: "As of
6 2012, Utah's in-state renewable generation comprises 1 percent
7 of demand." Since that time I have found another study, if you
8 will, that indicated a higher value, of roughly 3 1/2 percent. So I
9 would like to make that on the record that my initial assumption
10 was from 2010.

11 Q. Thank you. And with that additional information, if I
12 were to ask you the questions that are contained in these two
13 documents, would your answers be the same today as they were
14 when you prepared the documents?

15 A. Yes.

16 Q. And do you adopt the testimony in your direct and
17 surrebuttal testimony as your testimony in this matter today?

18 A. Yes, I do.

19 THE HEARING OFFICER: Are there any objections
20 to receiving Mr. Vrba's testimony into the record?

21 Then they'll be received.

22 And is there cross-examination for Mr. Vrba?

23 MR. DODGE: He hasn't offered his summary yet.

24 THE HEARING OFFICER: Thank you. Do you have
25 a summary for us?

1 THE WITNESS: Yes, I do.

2 THE HEARING OFFICER: Thanks, Mr. Dodge.

3 THE WITNESS: Okay. Energy of Utah, LLC, is a
4 Utah renewable energy developer--

5 THE REPORTER: A little slower.

6 THE WITNESS: --focusing on development of
7 renewable generation in Utah State. We have been an active
8 participant in this docket from its original assembly in mid-2012.
9 Our primary focus lies in support and continuation of existing
10 wind proxy. Its foundation was established by a 2005 order and
11 recently reconfirmed by our Commission in the first half of this
12 docket in December of 2012. We agree and fully support this
13 method for the following reasons:

14 Transparency and simplicity. It is essential that the
15 adapted methodology provides for transparency allowing all
16 affected parties full understanding of given price methodology to
17 make educated business decisions in consideration of future
18 steps and development.

19 Driven by markets. This methodology is driven by
20 very specific and relevant drivers for our regions.

21 Fairness. This methodology provides for fairness
22 across the board regardless if the generation asset--if it's a local
23 development, capital investment, or if it's an acquisition
24 conducted by the Company.

25 Proven reliability. This method has been in place

1 for several years, provided reliable results while allowing
2 maximum flexibility to adjust for market conditions as they
3 evolved. The Company's provided IRP for 2013 clearly indicated
4 their reliance on fossil fuel and market purchases for needed
5 generation shortfalls. As a direct result of this direction, there
6 are other elements that play a rather critical role in QF pricing
7 methodology that must be taken into consideration.

8 Generation portfolio diversification. This is one of
9 the available tools that the Company can utilize to secure
10 effective mechanisms to decrease dependence on one fuel
11 source and mitigate violent fossil fuel price swings.

12 Integration and reliability. We have shown in our
13 direct testimony on how reliable and more predictable wind
14 generation has become in the last decade.

15 Environmental impacts. This is one of the major
16 reasons of why we shall proceed towards renewable generation.

17 New infrastructure costs. As we have provided in
18 our testimony, Utah consumers carry a heavy burden of new
19 infrastructure build-outs to accommodate for new or planned
20 out-of-state power generation in the state of Utah.

21 This concludes my summary. I would like to thank
22 the Commission for this amazing opportunity to be here today
23 and share my opinion.

24 THE HEARING OFFICER: Thank you, Mr. Vrba.
25 Now is there any cross-examination?

1 Thank you, Mr. Vrba. You're excused.

2 THE WITNESS: Thank you. Appreciate it.

3 THE HEARING OFFICER: And Mr. Millsap? Raise
4 your right hand, please. Do you solemnly swear that the
5 testimony you're about to give shall be the truth, the whole truth
6 and nothing but the truth?

7 THE WITNESS: I do.

8 THE HEARING OFFICER: Thank you. Please be
9 seated.

10 EXAMINATION

11 BY-THE HEARING OFFICER:

12 Q. Mr. Millsap, I believe you've also filed direct and
13 surrebuttal testimony with the Commission?

14 A. Yes, that's right.

15 Q. And you are the Robert Millsap whose--

16 A. That's me.

17 Q. --name appears on these documents that are before
18 me, I assume. Do you have any corrections or additions to your
19 testimony?

20 A. I do not.

21 Q. Is your microphone on? Maybe you need to stand
22 up or be a little closer to it.

23 A. Is that better?

24 Q. Thank you.

25 A. That's worse.

1 Q. Much better.

2 So Mr. Millsap, if I were to ask you today the
3 questions that you've responded to in these prefiled exhibits,
4 would your answers be the same as they were when you
5 prepared them?

6 A. Yes, they would.

7 Q. Do you adopt these documents as your testimony in
8 this proceeding today?

9 A. I do.

10 Q. Thank you.

11 THE HEARING OFFICER: Is there any objection to
12 receiving Mr. Millsap's testimony?

13 Okay. And do you have a summary for us, Mr.
14 Millsap.

15 THE WITNESS: I have something very short.

16 THE HEARING OFFICER: Please go--go forward.

17 THE WITNESS: On one hand, I am a satisfied
18 customer. I like the light to come on when I flip the switch. And
19 I appreciate the work required by many of the people in this room
20 to make that happen. I don't care to propose anything that might
21 unravel that work. On the other hand, my family and I breathe
22 the same air as other Utah ratepayers.

23 We don't consider environmental costs to be
24 externalities because we seem to be the ones paying for them.
25 We aren't interested in paying lower costs today if it means that

1 our children are likely to pay higher costs tomorrow. I
2 understand that there are limitations to the avoided costs that
3 can be counted. I think that when all acceptable avoided costs
4 are counted in a way that's easily measured by all of us,
5 renewable energy will stand on its own feet. Ratepayers will
6 then have the opportunity to receive benefits that cannot be
7 counted by avoided costs.

8 Whatever the outcome, I'm confident in the
9 Commission's ability to sort out the truth of the matter, and I
10 thank them for allowing me to participate in the hearing.

11 THE HEARING OFFICER: Thank you, Mr. Millsap.
12 Cross-examination for Mr. Millsap?

13 MR. McDONOUGH: I've got one question.

14 THE HEARING OFFICER: Mr. McDonough.

15 EXAMINATION

16 BY-MR.McDONOUGH:

17 Q. Mr. Millsap, could you direct your attention to your
18 surrebuttal testimony at page 15 of 16? Line 1--line 176, and if
19 you could just read into the record that first full sentence
20 beginning with the word, "I."

21 A. "I believe the current PDDRR HLH capacity"--

22 Q. The next one.

23 A. Oh, sorry. "I would rather wrestle a bear than argue
24 with the Division about the correct way to calculate capacity
25 contribution."

1 Q. Are you talking about a grizzly bear or a black bear?

2 A. It depends on the bear.

3 MR. McDONOUGH: No further questions.

4 THE HEARING OFFICER: It's always nice to end
5 with a smile.

6 Any other questions?

7 Thank you, Mr. Millsap.

8 THE WITNESS: Thank you very much.

9 THE HEARING OFFICER: Thank you.

10 Are there other matters to come before the
11 Commission? Any questions about the briefing schedule or
12 anything else?

13 MR. DODGE: The only question I would have, Mr.
14 Chairman, is if you do have any notion or guidance on what the
15 Commission thinks it might do in timing of this order.

16 THE HEARING OFFICER: The Chairman's asked
17 me to respond. We recognize the intense interest in this subject.
18 We will do our best to reach conclusions and issue an order
19 as--in due course as quickly as we reasonably can. I think it
20 would be ill advised to predict exactly how soon that could be.
21 We are reasonably confident with everything we can see before
22 us now that it would certainly be issued before the end of August
23 and--
24 and beyond that, we'll just do our very best, understanding the
25 importance of the matter to issue a--an order that addresses the

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

material that we've received--

MR. DODGE: Thank you very much.

THE HEARING OFFICER: --in due course.

MR. DODGE: That's very helpful. Thank you.

THE HEARING OFFICER: Thank you. Thank you all for your participation today, for allowing us to carry on a little beyond the normal time. And we are adjourned.

(Proceedings concluded at 5:23 p.m.)

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

CERTIFICATE

This is to certify that the foregoing proceedings were taken before me, SCOTT M. KNIGHT, a Registered Professional Reporter and Notary Public in and for the State of Utah, residing at South Jordan, Utah;

That the proceedings were reported by me in stenotype and thereafter caused by me to be transcribed into typewriting, and that a full, true, and correct transcription of said proceedings so taken and transcribed is set forth in the foregoing pages, inclusive.

I further certify that I am not of kin or otherwise associated with any of the parties to said cause of action, and that I am not interested in the event thereof.

Scott M. Knight, RPR

Utah License No. 110171-7801