

RECEIVED

SEP 23 2013

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION PUBLIC SERVICE COMMISSION

IN THE MATTER OF:

THE APPLICATION OF KENTUCKY
POWER FOR:

(1) THE APPROVAL OF THE TERMS AND)
CONDITIONS OF THE RENEWABLE ENERGY)
PURCHASE AGREEMENT FOR BIOMASS)
ENERGY RESOURCES BETWEEN THE)
COMPANY AND ECOPOWER GENERATION-)
HAZARD, LLC; (2) AUTHORIZATION TO)
ENTER INTO THE AGREEMENT; (3) THE)
GRANT OF CERTAIN DECLARATORY)
RELIEF; AND (4) THE GRANT OF ALL)
OTHER REQUIRED APPROVALS AND)
RELIEF)

ORIGINAL

CASE NO. 2013-00144

VOLUME II

Transcript of August 29, 2013, hearing
before David L. Armstrong, Chairman, James W. Gardner,
Vice-Chairman, and Linda Breathitt, Commissioner, at
the Kentucky Public Service Commission, 211 Sower
Boulevard, Frankfort, Kentucky 40602-0615.

LAURA J. KOGUT, RMR, CRR, KY CCR
lkogut@mclendon-kogut.com
McLendon-Kogut Reporting Service, LLC
310 West Liberty Street, Suite 200
Louisville, Kentucky 40202-3014
(502) 585-5634
www.mclendon-kogut.com

C O N T E N T S

1		Page
2		
3	Appearances	185
4		
5	Preliminary Matters	187
6	Testimony of ALAN TAYLOR	
7	Direct Examination by Mr. Kurtz	192
8	Cross-Examination by Mr. Gish	194
9	Cross-Examination by Ms. Hans	211
10	Cross-Examination by Mr. Nguyen	212
11	Examination by Vice-Chair Gardner	215
12	Examination by Commissioner Breathitt	231
13	Redirect Examination by Mr. Kurtz	235
14	Reexamination by Vice-Chair Gardner	239
15	Testimony of PAUL COOMES	
16	Direct Examination by Mr. Kurtz	241
17	Cross-Examination by Mr. Garcia	243
18	Cross-Examination by Ms. Hans	254
19	Examination by Vice-Chair Gardner	260
20	Examination by Commissioner Breathitt	267
21	Examination by Chairman Armstrong	270
22	Redirect Examination by Mr. Kurtz	272
23	Testimony of LANE KOLLEN	
24	Direct Examination by Mr. Kurtz	277
25	Cross-Examination by Mr. Gish	279
	Examination by Vice-Chair Gardner	286
	Notary Certificate	296
	<u>Exhibits</u>	
	Kentucky Power Exhibit 1	239
	Kentucky Power Exhibit 2	239
	Kentucky Power Exhibit 3	239

*

*

*

APPEARANCES

FOR KENTUCKY POWER COMPANY:

Mr. Mark R. Overstreet
moverstreet@stites.com
Stites & Harbison PLLC
421 West Main Street
P.O. Box 634
Frankfort, Kentucky 40602-0634
(502) 223-3477

and

Mr. Kenneth J. Gish, Jr.
kgish@stites.com
Stites & Harbison PLLC
250 West Main Street
Suite 2300
Lexington, Kentucky 40507-1758
(859) 226-2300

and

Mr. Hector Garcia
hgarcial@aep.com
American Electric Power
1 Riverside Plaza
29th Floor
Columbus, Ohio 43215
(614) 716-3410

FOR KENTUCKY INDUSTRIAL UTILITY CUSTOMERS, INC.:

Mr. Michael L. Kurtz
mkurtz@bkllawfirm.com
Mr. Kurt J. Boehm
kboehm@bkllawfirm.com
Boehm, Kurtz & Lowry
1510 URS Center
36 East Seventh Street
Cincinnati, Ohio 45202
(513) 421-2255

APPEARANCES
(Continued)

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

FOR KENTUCKY ATTORNEY GENERAL:
Ms. Jennifer Black Hans
jennifer.hans@ag.ky.gov
Mr. Gregory Dutton
gregory.dutton@ag.ky.gov
Commonwealth of Kentucky
Office of the Attorney General
Office of Rate Intervention
1024 Capital Center Drive, Suite 200
Frankfort, Kentucky 40601
(502) 696-5453

FOR KENTUCKY PUBLIC SERVICE COMMISSION:
Mr. Quang D. Nguyen
QuangD.Nguyen@ky.gov
211 Sower Boulevard
P.O. Box 615
Frankfort, Kentucky 40602
(502) 564-39404

* * *

1 (Hearing commenced at 10:03 a.m.)

2 CHAIRMAN ARMSTRONG: We are on the
3 record. Good morning.

4 COUNSEL: Good morning.

5 MR. KURTZ: I think the Company has some
6 preliminary, Your Honor.

7 MR. GISH: Mr. Chairman, I want to clear
8 up a couple issues outstanding from yesterday's part
9 of the hearing. The first was I believe a question
10 that you had regarding the planned commercial
11 operation date of the facility, and in Exhibit 1 to
12 the REPA, the command -- which is -- sorry, Exhibit A
13 to the REPA, commercial operation milestone is
14 January 31 of 2017.

15 And then with regard to the data request
16 regarding rate impacts that the Vice-Chair had, we --
17 and we went back and looked at what we had done for --
18 in response to the data request Staff 5-10 in the
19 Mitchell case, which prepared kind of incremental,
20 almost milestone-by-milestone revenue requirement
21 change where we had the 2014 to 2015 period with the
22 5.33 percent rate increase and then the post-2015
23 eight percent rate increase for a cumulative of two --
24 or for a cumulative 13 percent rate increase, revenue
25 requirement increase.

1 And what we -- what we understand is
2 that we look for what happens when we do the Big Sandy
3 1 conversion and do an incremental revenue requirement
4 increase, cumulative, and the same with the ecoPower
5 revenue, incremental revenue requirement and
6 cumulative.

7 VICE-CHAIR GARDNER: Sure. I mean, we
8 can do that now if you'd like, Mr. Chairman, or at the
9 end.

10 Okay. Well, just so we're on the same
11 page --

12 MR. GISH: Certainly.

13 VICE-CHAIR GARDNER: -- I've got a copy
14 of this, of what we're talking about, the Exhibit
15 itself --

16 MR. GISH: Sure.

17 VICE-CHAIR GARDNER: -- just to make
18 sure. Do you mind handing that out to the other
19 folks?

20 MR. GISH: No problem.

21 MS. HARWARD: Can I have one too,
22 please?

23 VICE-CHAIR GARDNER: And this is, you
24 know, a post-hearing data request.

25 MR. KURTZ: Oh, thank you.

1 VICE-CHAIR GARDNER: So line -- so
2 column 2, the way you've done it here was the Mitchell
3 overlap period, that --

4 MR. GISH: Yes, sir.

5 VICE-CHAIR GARDNER: -- 17-month period,
6 and I guess what I'd like to do to use Mr. Wohnhas's
7 more current number would be the -- from his
8 Exhibit 1, page 1 of 1, use the 501,037 rather than
9 the 511,321, so that we have that number current.
10 Does that make sense?

11 MR. GISH: Yes, sir.

12 COMMISSIONER BREATHITT: Is that line
13 12?

14 VICE-CHAIR GARDNER: That is line 12.
15 So then we'll get a new number for line 13. We'll get
16 a new percentage there. Okay?

17 MR. GISH: Yes.

18 VICE-CHAIR GARDNER: Then in column
19 three, we'll -- you know, we'll do it exactly as you
20 had done before, we'll be getting a new -- except
21 we'll have a new line 13 on there, because we will
22 have changed what that -- and Ranie is nodding his
23 head, so he understands that.

24 And then -- so we'll have what that
25 incremental 2015 percent change is, and that'll be a

1 different number. And then -- so -- then I'd like a
2 new column four.

3 MR. GISH: Uh-huh.

4 VICE-CHAIR GARDNER: Which is the -- and
5 let's do it this way: Let's do it with the Big Sandy
6 Unit 1 repower, and then -- so we'll -- going down
7 we'll have a percent change and an incremental, you
8 know, in --

9 MR. GISH: Certainly.

10 VICE-CHAIR GARDNER: -- liens 13 and 14.
11 And then similarly in -- we'll have a new column five
12 for the ecoPower REPA, what that is, and then we'll be
13 able to see what that incremental change is.

14 MR. GISH: Absolutely, sir.

15 VICE-CHAIR GARDNER: Okay.

16 MR. OVERSTREET: And Mr. Vice-Chairman,
17 just so that I'm clear, row 12 is changed to 501,037
18 all the way across?

19 VICE-CHAIR GARDNER: Yes. Yes.

20 MR. OVERSTREET: Okay.

21 VICE-CHAIR GARDNER: So that we have
22 those -- that current.

23 MR. OVERSTREET: Apples to apples.

24 VICE-CHAIR GARDNER: Right. Thank you
25 all. Thank you, Mr. Chairman.

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

CHAIRMAN ARMSTRONG: Uh-huh. General.

MS. HANS: We have no witnesses, Your Honor.

MR. KURTZ: KIUC calls Mr. Alan Taylor.

* * *

1 ALAN TAYLOR, called by Kentucky
2 Industrial Utility Customers, Inc., having been first
3 duly sworn, testified as follows:
4

5 DIRECT EXAMINATION
6

7 By Mr. Kurtz:
8

9 CHAIRMAN ARMSTRONG: Have a seat. Speak
10 up loud and clear. Your name?

11 THE WITNESS: My name is Alan Taylor.

12 CHAIRMAN ARMSTRONG: What do you do,
13 Mr. Taylor?

14 THE WITNESS: I do energy consulting.
15 I'm the president of Sedway Consulting, Inc.

16 CHAIRMAN ARMSTRONG: And why are you
17 here?

18 THE WITNESS: I am here testifying on
19 behalf of the Kentucky Industrial Utility Customers.
20 I specialize in power procurement and evaluation of
21 power supply options. I do this all around the
22 country, and I think that the ecoPower transaction
23 that is the subject of the hearing is a very expensive
24 transaction and that there are better options out
25 there in the marketplace that would satisfy the

1 laudable goals that Kentucky Power is pursuing here of
2 fuel diversity and economic development, but I think
3 that there are cheaper options out there that would be
4 more effective.

5 CHAIRMAN ARMSTRONG: Welcome.

6 THE WITNESS: Thank you.

7 CHAIRMAN ARMSTRONG: Your witness.

8 MR. KURTZ: Thank you, Your Honor.

9 Q Mr. Taylor, do you have in front of you
10 a document marked direct Taylor [sic] of Alan S.
11 Taylor?

12 A Yes, I do.

13 Q Was it prepared by you or under your
14 direct supervision?

15 A Yes, it was.

16 Q If I was to ask you the same questions
17 as those contained therein, would your answers be the
18 same?

19 A Yes, they would.

20 Q Any additions or corrections?

21 A No.

22 MR. KURTZ: Your Honor, I tender the
23 witness for cross.

24 CHAIRMAN ARMSTRONG: Mr. Gish.

25 MR. GISH: Thank you, Mr. Chairman.

CROSS-EXAMINATION

1
2
3 By Mr. Gish:

4
5 Q Good morning, Mr. Taylor.

6 A Good morning.

7 Q Can you turn to your testimony on page
8 6, please?

9 A Yes.

10 Q And on lines 2 and 3 of page 6 you
11 testify that you have seen 20-year REPA proposals
12 offered for prices less than a third of the ecoPower
13 REPA price; is that correct?

14 A Correct.

15 Q And in response to the data request 1-2
16 propounded by Kentucky Power, you noted that in your
17 role as an independent evaluator of renewable
18 solicitations you reviewed over 1,500 proposals for
19 renewable energy?

20 A That is correct.

21 Q And in response to Staff data request
22 1-1, you responded that while you cannot provide any
23 details of the REPAs that are a third of the price of
24 the ecoPower REPA due to confidentiality agreements --

25 A That is correct.

1 Q -- similar to the confidentiality
2 agreements that Mr. Godfrey entered into, you did
3 identify those projects as being located in Iowa,
4 Minnesota, North Dakota, South Carolina, and
5 Wisconsin; is that correct?

6 A That's correct.

7 Q Okay. So none of those projects were
8 located in Kentucky Power service territory?

9 A Correct.

10 Q And none in Kentucky?

11 A No.

12 Q None in PJM?

13 A I don't believe so.

14 Q And these projects were predominantly
15 wind and solar projects; is that correct?

16 A Predominantly.

17 Q Were there any biomass projects in this?

18 A No.

19 Q And can you turn to page 16 of your
20 testimony?

21 A Yes.

22 Q The version I have lost the line numbers
23 in the middle of it, but you testified that in fact
24 you have seen any proposed renewable projects in
25 recent years that could generate renewable energy and

1 RECs, R-E-C's at prices that are less than forecasted
2 prices for brown power; is that correct?

3 A That sounds right, I just want to see
4 the -- okay. In my version it's actually at the
5 bottom of page 15. Yes.

6 Q And in response to Kentucky Power's
7 data -- you've heard of this as a negative REC price,
8 correct?

9 A Correct.

10 Q In response to Kentucky Power data
11 request 1-15, again noting that you can't provide the
12 details of the proposal, you testified that these
13 projects are located in Arizona, California, Colorado,
14 Iowa, Minnesota, New Mexico, North Dakota, Oregon,
15 South Dakota, and Wisconsin, correct?

16 A Correct.

17 Q Okay. And you also testified that these
18 were wind and solar projects?

19 A Predominantly, yes.

20 Q Your data response said that they were
21 wind and solar projects. Do you have a copy of that
22 in front of you?

23 A I believe so. One moment. Yes, that's
24 correct, in response to Kentucky Power's question
25 number 15.

1 Q So no biomass projects?

2 A That's correct.

3 Q And, again, none of these projects were
4 located in Kentucky Power service territory?

5 A That's correct.

6 Q And none in Kentucky?

7 A None.

8 Q And none in PJM?

9 A I do not believe so, no.

10 Q And so you're familiar with renewable
11 energy development in the United States, I presume?

12 A Uh-huh. Yes, I am.

13 Q So you're aware that Kentucky has -- is
14 a -- I think what would be described as a poor state
15 for potential wind development; is that correct?

16 A I would not characterize myself as a
17 renewable resource expert for Kentucky. I think my
18 expertise is really in the soliciting of power supply
19 options and seeing what the marketplace comes up with.
20 I think that that's the real failure in this case is
21 that there has not been sufficient economic backdrop
22 with which to judge this transaction, and I think that
23 it's not for me to sit on the stand and try to
24 determine what I think the price might be of various
25 renewable options or exactly what renewable

1 technologies might be available to Kentucky Power. I
2 think it's beneficial to actually have a solicitation
3 and let the marketplace tell you.

4 Q But back to my question. Kentucky is
5 not a state where you're likely to find wind energy
6 development?

7 A I don't know.

8 Q You don't know?

9 MR. GISH: Pass out what will be marked
10 as Kentucky Power Exhibit 1.

11 Q And, Mr. Taylor, this is a map of the
12 United States entitled Annual Average Wind Speed at
13 80 Meters; is that correct?

14 A I accept that representation, yes.

15 Q And it's from the National Renewable
16 Energy Laboratory?

17 A Correct.

18 Q And it looks -- the date at the bottom
19 corner is 1 April 2011; is that correct?

20 A That's correct.

21 Q And this map shows the wind speed at 80
22 meters, average annual wind speed at 80 meters for the
23 entire country. And 80 meters is a rough estimate of
24 the hub height of a wind turbine generator; is that
25 correct?

1 A That's correct.

2 Q Okay. So if you look at this map, the
3 colors that are shown and the wind speeds that are
4 shown for Eastern Kentucky, Kentucky Power service
5 territory, are among the poorest in the country for
6 wind resources; is that correct?

7 A I mean, there certainly are some brown
8 colors in the central area. I don't know whether
9 that's within the footprint of East Kentucky -- of
10 Kentucky Power or not.

11 Q But in the eastern third of the state,
12 Kentucky, there's -- it is a green to dark green,
13 which is the slowest wind speeds at 80 meters?

14 A That is correct, although technologies
15 have improved to the extent of new wind turbines being
16 able to extract more energy from low wind speeds.

17 I think that the map is illustrative of
18 where the absolute best places to put wind turbines if
19 one is just looking at a national perspective, but I
20 still don't think that this says that wind energy here
21 in the eastern part of the state would not be
22 exceptionally more competitive than the prices that
23 have been put in place from the ecoPower transaction.

24 Q But there's no -- but there's nothing on
25 this map that shows that there's -- it's considerably

1 less likely to have wind resources than, say, the
2 Dakotas, where you found -- where you have had your
3 experience; is that correct?

4 A No. I think if you're looking for
5 in-state renewables, I think it's worth testing the
6 marketplace and seeing what sort of prices they could
7 put in front of you. I think you'd be impressed.

8 Q And Kentucky is not a -- or Eastern
9 Kentucky is not a particularly strong area for solar
10 resources; is that correct?

11 A I don't necessarily know that.
12 Commercial and industrial facilities are often a good
13 spot for rooftop solar installations, and that may be
14 a possibility.

15 MR. GISH: I'm going to pass out what
16 I'd like to have marked as Kentucky Power Exhibit 2.

17 Q This is a map also from the National
18 Renewable Energy Laboratory titled Photovoltaic Solar
19 Resources of the United States; is that correct?

20 A That's correct.

21 Q And it's an October 20th, 2008, date; is
22 that correct?

23 A Correct.

24 Q And the -- again, this is color-coded
25 based on kilowatt hours per meter squared per day

1 measurement of photovoltaic resources; is that
2 correct?

3 A Yes.

4 Q And the color that's associated with
5 Kentucky Power service territory appears to be roughly
6 the same color associated with the upper peninsula of
7 Michigan, upstate New York, and northern Maine; is
8 that correct?

9 A Some of those areas. It looks like
10 there is some potential in -- again, closer to the
11 center part of the state.

12 Q Right. But in the Kentucky Power
13 service territory, it's green, just like it is in the
14 upper peninsula of Michigan?

15 A I see a lot of dark green in the upper
16 part of Michigan. I see some light green in what I
17 think is probably Kentucky Power service territory.

18 Q Okay. Do you know what Kentucky Power
19 service territory is?

20 A From this map, no.

21 Q Do you know what it is generally?

22 A Generally.

23 Q Okay. Where is Kentucky Power service
24 territory?

25 A It's the eastern, kind of northeastern

1 part of Kentucky.

2 Q Based on the data that is produced by
3 the National Renewable Energy Laboratory, it appears
4 that on a relative scale, the Eastern Kentucky is at a
5 disadvantage for -- as compared to other parts of the
6 country is at a disadvantage for solar and for wind;
7 is that correct?

8 A I would definitely say that there are
9 better geographic areas than east Kentucky for
10 locating those technologies if you were just looking
11 at this from a national basis. I don't think that
12 that in and of itself, though, warrants not asking the
13 market for their best options for meeting renewable
14 energy needs or desires of Kentucky Power.

15 Q And you would agree that biomass
16 resources provide the best renewable option for
17 Eastern Kentucky; is that correct?

18 A No, I would not.

19 Q Despite the abundance of woody
20 resources; is that correct?

21 A I think that you need to ask the
22 marketplace and then review the options that are in
23 front of you.

24 Q And are you familiar with the --
25 Kentucky's 2008 energy plan?

1 A Yes, I am.

2 Q Okay. And that specifically calls out
3 biomass energy as a -- as a renewable alternative for
4 Kentucky; is that correct?

5 A As a possibility, yes.

6 Q Are you familiar with -- are you aware
7 of whether or not Kentucky Power has conducted a
8 recent RFP?

9 A I know that they looked at the Big Sandy
10 1 replacement. They issued that RFP after they signed
11 this ecoPower REPA.

12 Q Have you reviewed the RFP?

13 A I glanced at it.

14 MR. GISH: Pass out what is the Kentucky
15 Power Exhibit Number 3.

16 Q Can you turn to page 4 of this document,
17 please?

18 A Okay.

19 Q I'm sorry. Can you turn to Section 4 of
20 this document on page 6?

21 A Yes.

22 Q Okay. Can you look at Section 4.1?

23 A Uh-huh.

24 Q The Company is seeking a low-cost
25 bundled product from PJM Generation Capacity Resources

1 that include the following: Capacity, energy,
2 ancillary services, and environmental attributes, if
3 available; is that correct?

4 A That's correct.

5 Q So renewables were eligible to bid into
6 this RFP; is that correct?

7 A They were eligible. I found that, in an
8 electronic search of the document, renewable only
9 occurred once, and that was actually in the footnote
10 at the bottom of this page 6, so I don't know that I'd
11 really say that this was opening the door wide open
12 and encouraging renewable bidders to propose
13 resources.

14 Q But you have testified that renewable
15 resources are available and are competitive with any
16 other source; is that correct?

17 A True.

18 Q All right. So they would have not been
19 dissuaded by the lack of bells and whistles and
20 lighted invitation, correct?

21 A I think they would. I think the fact
22 that, first of all, a renewable energy contract had
23 just been signed earlier in the month, so any appetite
24 that Kentucky Power had for renewables may have
25 already been sated by that contract.

1 The fact that there is no RPS
2 requirement in Kentucky I think also has most
3 renewable developers looking for better business
4 opportunities elsewhere, where states are requiring
5 some portion of a utility's supply portfolio to be
6 renewable.

7 I think that if you really want to
8 encourage renewable bidders to submit options, you
9 need to publicize it more than saying, "We're
10 considering converting a coal plant, come to Kentucky
11 and see what you can provide."

12 Q But, again, you believe that renewables
13 are equivalent to any other power source, so they
14 should have been able to bid in here, if available,
15 correct?

16 A I think they were allowed to bid in. I
17 don't consider this, though, to be a renewable
18 solicitation.

19 Q But, again, you don't think that it
20 needs to be a renewable solicitation because you have
21 testified that the price that you've seen is
22 equivalent, so if there were resources out that -- out
23 there that they believed were competitive with other
24 gas, coal, they would have bid in, correct?

25 A Okay. To the first part of your

1 question, I disagree. I think that if you want
2 renewable resources, you really do need to have a
3 renewable solicitation where you're opening the door
4 wide, widely publicizing it as a solicitation for
5 renewable power supplies, and that this does not meet
6 that test.

7 Q Did any renewable resource submit a
8 proposal in response to this RFP?

9 A I don't know. I did not see the results
10 of this RFP.

11 Q The R -- the results of the RFP was --
12 were provided in the case study. Did you review that?

13 A I did not.

14 Q Just -- again, just to clarify, you've
15 reviewed -- you've never reviewed a biomass renewable
16 project that produced a negative REC value; is that
17 correct?

18 A I don't believe so.

19 Q And you never reviewed a biomass REPA at
20 prices that were one-third less than the ecoPower
21 REPA; is that correct?

22 A I don't believe so.

23 Q Can you turn to page -- your testimony
24 at page 17, and there's the question that starts, "But
25 does the REPA expose the Company's customers to

1 fluctuations in diesel fuel prices?"

2 A Yes, I see that.

3 Q And you answer no, which is correct,
4 then you testify in the second-to-the-last sentence,
5 (Reading) If the current REPA were approved, that
6 could lead to another regulatory proceeding in the
7 future regarding an amended REPA with yet a higher
8 price.

9 And you're testifying here with regard
10 to increases in trucking costs, is that correct,
11 diesel fuel costs?

12 A Correct, although it could go even
13 beyond that.

14 Q You reviewed the REPA; is that correct?

15 A Yes, I did.

16 Q Okay. Do you have -- is there any --
17 there's no provision in the REPA that allows ecoPower
18 to unilaterally change the agreement, correct?

19 A That's correct.

20 Q All right. There's no provision that
21 allows ecoPower to force any future regulatory
22 proceedings before this Commission?

23 A That is correct.

24 Q So even if the contract becomes economic
25 for ecoPower, they have -- I'm sorry, uneconomic for

1 ecoPower, they cannot force a proceeding, correct?

2 A They cannot, although my basis of my
3 testimony here is really more anecdotal, what I've
4 seen occur in other state jurisdictions, and I simply
5 wanted to bring it to the attention of the Commission
6 is circumstances where even though the utility and
7 effectively, by translation, the utility's customers
8 are protected from certain cost increases because it
9 is a fixed price contract, I have seen circumstances
10 where, for issues that were out of the control of the
11 developer, costs went up, either -- in this case it
12 could be diesel prices, it could be GHG costs, what
13 have you.

14 Once an approved contract is -- has the
15 momentum of regulatory approval and construction is
16 under way, or perhaps the facility is entirely built,
17 it's hard for a utility and the commission that's
18 overseeing it to resist at least consideration of cost
19 increases that might -- may be a -- may have been
20 outside of the developer's control. The argument is
21 always made, "We're the developer. We did the best we
22 could. Through no reason of mismanagement, we've got
23 these additional costs that weren't foreseen when we
24 came up with our original fixed prices. We need a --
25 we need a higher price or this project is going to go

1 into bankruptcy and the jobs associated with it and
2 all of the investment is going to dry up." And it
3 could leave a black mark on that state's record for
4 the promoting of renewable contracts, and it may make
5 other renewable developers less likely to consider
6 doing business in that state.

7 So kind of with that threat, I have seen
8 fixed price contracts get reopened, higher prices
9 negotiated and the commission being placed in a
10 position where they felt they had to approve things.
11 Even though what you're looking at with the ecoPower
12 contract indeed says it's fixed price and this is the
13 end of the story, it's not always the end of the
14 story.

15 Q But just to clarify, there's no
16 provision in the REPA that allows ecoPower to force a
17 future Commission proceeding relating to increased
18 costs?

19 A That's correct.

20 Q And there are provisions in the contract
21 that relate to what their -- that protect the customer
22 in the event of a bankruptcy of ecoPower; is that
23 correct?

24 A That's correct.

25 Q And on page 18 of your testimony you

1 testify regarding the ability of the ecoPower facility
2 to meet future potential carbon emission standards; is
3 that correct?

4 A Yes.

5 Q And there's nothing in the REPA that
6 allows ecoPower to unilaterally change the REPA to
7 address future requirements to install, operate, or
8 maintain additional pollution control equipment, is
9 there?

10 A That's correct.

11 Q And under the REPA the risk of increased
12 costs to operate the facility arising from operating
13 this additional hypothetical control equipment lies
14 with ecoPower, not Kentucky Power; is that correct?

15 A That's correct, but, again, it's the
16 same issue. If costs aren't as high as have been
17 expected, ecoPower will enjoy the benefits of the
18 additional profits. If they do end up being too high,
19 on the other end of the spectrum, and imperil the
20 project, this contract could end up back in front of
21 you at some later date.

22 Q But, again, that -- ecoPower cannot
23 force that unilaterally?

24 A That's correct.

25 MR. GISH: I have no further questions,

1 Mr. Chairman.

2 CHAIRMAN ARMSTRONG: General.

3
4 * * *

5
6 CROSS-EXAMINATION

7
8 By Ms. Hans:

9
10 Q Good morning, Mr. Taylor. I have a
11 question just for clarification. Yesterday I asked
12 Mr. Pauley, and I neglected to follow up, and I just
13 wanted to know if you know. And, again, aside from
14 whether the -- what your opinion is about the final
15 transaction or whether the transaction would have even
16 been a good transaction prior to today's date, if
17 there had been a transaction or a REPA between
18 Kentucky Power and ecoPower, if they had been able to
19 agree prior to 2013, and I think that we had testimony
20 yesterday that we're looking at probably the 2011 time
21 frame, 2010, 2011, would ecoPower -- would the
22 project, ecoPower project, have been eligible for
23 federal incentives or subsidies which are no longer
24 available?

25 A That is correct.

1 Q And what were those subsidies and when
2 did they sunset, for the record?

3 A I don't know exactly when they
4 sunsetted. They were associated with the fiscal
5 stimulus legislation that was passed at federal level.
6 There was the Section 1603 30 percent cash grants that
7 Kentucky Power referred to in their data responses.
8 There were bonus tax depreciation elements that were
9 also in effect at that time and are no longer
10 available.

11 MS. HANS: Thank you, sir. That's all I
12 have, Your Honor.

13 CHAIRMAN ARMSTRONG: Mr. Nguyen.

14 MR. NGUYEN: Yes, Your Honor. Just a
15 couple questions.

16
17 * * *

18
19 CROSS-EXAMINATION

20
21 By Mr. Nguyen:

22
23 Q Good morning, Mr. Taylor.

24 A Good morning.

25 Q Were you here yesterday for

1 Mr. Godfrey's -- when he testified on the stand?

2 A Yes, I was.

3 Q Okay. Were you here for the part where
4 we discussed sort of evaluating biomass REPAs versus
5 wind, solar, renewable energy purchase agreements?

6 A I believe so, yes.

7 Q Okay. And then there could be some
8 adjustments that were made so that you could compare,
9 you know, each of those REPAs on an apples-to-apples
10 comparison?

11 A Right.

12 Q Okay. And he testified that with
13 respect to biomass and wind, that wind REPAs are, in
14 general, less expensive than biomass. Would you agree
15 with that statement?

16 A I would agree with that statement.

17 Q Okay. And then with respect to solar
18 REPAs, that they were generally competitive with or on
19 par with biomass REPAs. Do you agree with that
20 statement?

21 A Not the ecoPower REPA price. And even
22 the more competitively priced biomass --

23 Q Well --

24 A -- proposals that I've seen.

25 Q Let's just state in general, biomass

1 REPAs in general first, in comparison to solar REPAs.
2 In general, are they on a comparable basis?

3 A They used to be, but I'd probably date
4 that back maybe two years or so. Solar photovoltaic
5 panel prices have been coming down so fast that those
6 projects are now looking more cost effective than
7 biomass.

8 Q Okay. And specifically with the
9 ecoPower contract, with solar REPAs in general, are
10 the price for -- just on a per megawatt hour basis, is
11 it comparable to other general solar REPAs?

12 A No. I hesitate a little bit because in
13 deference, actually, to Kentucky Power, one can't look
14 necessarily at, say, solar prices in Arizona and
15 compare them to what would be available here in
16 Kentucky.

17 The central point, really, of my
18 testimony has been, though, that they have to ask the
19 marketplace. The marketplace is an amazingly
20 innovative, and I think innovation was one of the key
21 elements of the Governor's program. The marketplace
22 is amazingly innovative at providing options.

23 What the price of solar would be here in
24 Eastern Kentucky or in surrounding areas, because I
25 really -- I honestly don't believe that Kentucky Power

1 should limit their renewable search just to their own
2 footprint. I think that they really should look at a
3 solicitation that considers what sort of premium they
4 would have to pay for renewable power to be right in
5 their footprint versus just outside of their service
6 territory.

7 But I don't know what solar prices would
8 look like. I sense that given the technology costs,
9 their tremendous decline and the efficiency increases
10 in solar PV panels, that solar could be cost effective
11 and, you know, much, much cheaper than the ecoPower
12 transaction.

13 MR. NGUYEN: Those are all the questions
14 I have, Your Honor.

15 CHAIRMAN ARMSTRONG: Questions.

16 VICE-CHAIR GARDNER: Thank you.

17
18 * * *

19
20 EXAMINATION

21
22 By Vice-Chair Gardner:

23
24 Q Good morning, Mr. Taylor.

25 A Good morning.

1 Q My questions are in two areas. One is
2 the production tax credit and then the RECs. So if
3 you could first turn to page 6 of your testimony. And
4 this is the para -- in my version, it begins on page
5 9. Excuse me, line 9, with the sentence, "In
6 addition, the provisions in the REPA."

7 Do you see that?

8 A Yes, I do.

9 Q Okay. You say "are weak and vague,
10 exposing the Company's customers to unnecessary risks
11 and costs."

12 Tell me what you mean by that. What are
13 the risks and costs and why are the provisions here
14 weak and vague?

15 A Right. What I have seen as far as a
16 contracting proposition in other solicitations around
17 the country regarding the Section 45 production tax
18 credits or any tax credits that may be available is
19 pushing that, the pursuit of those tax credits, onto
20 the developer and not automatically having a price
21 that assumes that the developer doesn't achieve those
22 production tax credits.

23 So what the ecoPower transaction, the
24 ecoPower REPA does and what the Commission is being
25 asked to approve is a contract that has a price that's

1 assuming guaranteed failure of ecoPower to achieve the
2 PTCs.

3 Contrary to that, the contracting
4 structure in other parts of the country frequently is
5 to hold a solicitation, to, by the competitive nature
6 of a solicitation, push all developers to try and
7 develop their facilities on a schedule and with a
8 mind-set of capturing as much as of the PTC benefits
9 as they can and converting those PTC benefits into the
10 lowest possible contract price that they could offer
11 in the solicitation.

12 So when you're just negotiating with one
13 counterparty, you can end up with these awkward and
14 kind of weak provisions like what's in Article 7 of
15 the REPA, where there's no obligation for ecoPower to
16 pursue the PTC.

17 MR. GISH: Just sort of caution here
18 when we get into specifics of that part of the REPA
19 regarding the production tax credits, those terms are
20 confidential.

21 THE WITNESS: I understand.

22 MR. GISH: Okay.

23 THE WITNESS: And I wasn't going to talk
24 about the percentages, but there are -- there's a
25 generous portion of the PTC benefits that would be

1 awarded to the ecoPower developer if they were able to
2 achieve that.

3 What we were hearing yesterday is
4 certainly under the current deadlines, it may be
5 rather difficult for ecoPower to pursue that, but in a
6 competitive solicitation, those percentages that are
7 in -- confidential percentages that are in Article 7
8 are inherently crushed down to a very small number as
9 far as what the developer would be really keeping for
10 themselves, because they're under the competitive
11 pressure of trying to win the solicitation at the
12 lowest possible contract price.

13 COMMISSIONER BREATHITT: I'm sorry.
14 What did you say? They're at the -- they're under
15 pressure to what?

16 THE WITNESS: To basically take that
17 percentage number of what they would get out of the
18 PTCs and perhaps give it -- you know, go with zero
19 percent and give all the PTC benefits to the customers
20 and the lowest possible REPA price that they would
21 offer. The lower the price they offer in a
22 solicitation, the more likely they're going to get
23 awarded the contract by the utility.

24 Q Okay. Let me ask this. Again, not
25 getting to the specifics, but is it your opinion that

1 Article 7, the title of which is Sale and Purchase of
2 Renewable Energy deals with production tax credits
3 under those provisions?

4 A I don't have the REPA in front of me,
5 but I believe it is Section 7.2 or 3 or 4 that -- I
6 may have referenced the wrong section, I apologize,
7 but there is somewhere in that part of the REPA a
8 reference to production tax credits.

9 MR. GISH: And, Your Honor --
10 Mr. Chairman -- or Mr. Vice-Chair, it is in Section
11 7.1.

12 VICE-CHAIR GARDNER: 7.1?

13 MR. GISH: Yes.

14 A Usually there is not this kind of trying
15 to carve up production tax credit benefits. As I say,
16 it's usually embedded in the price, and then often
17 these contracts include a seller termination right,
18 and that's really what is more typical.

19 VICE-CHAIR GARDNER: Okay. Can I see
20 the confidential version. My version that I have up
21 here is --

22 Q Okay. So the contract -- so let me try
23 to summarize what you've said to make sure I
24 understand it. You're not saying that there are any
25 future costs or risks to the customers for -- related

1 to production tax credits, what you're saying is the
2 way the contract is structured in the solicitation
3 created, in your opinion, not the optimum, not the
4 best provisions to benefit customers. Is that a fair
5 statement?

6 A Yes.

7 Q I'm -- with your language about risks
8 and costs, I'm wanting to make sure that there are not
9 going to be -- if the production tax credits are not
10 obtained because a developer doesn't get its act
11 together with respect to financing or, you know,
12 whatever, that -- I'm wanting to make sure that that
13 doesn't mean that there's additional costs to the
14 consumer. Is that accurate or fair?

15 A That is. I guess my testimony had
16 really been taken from the perspective of what I've
17 seen elsewhere in the country, where the status quo,
18 if you will, is that the production tax credit
19 benefits will flow through to the customers and that
20 if the product -- in the production tax credits are
21 not achieved, the seller, the developer has a
22 termination right to say, "I simply can't perform at
23 this price anymore," and then the contract disappears.

24 The way that the ecoPower REPA is
25 structured is they're basically asking for approval of

1 this rather high price, and then if the production tax
2 credits are achieved or there are some benefits to be
3 distributed, that there's a provision for bringing
4 that price down.

5 Q Okay. And the obligation is on the
6 developer to make the application; is that correct?

7 A That is correct.

8 Q Okay. And the provisions of the
9 contract provide an allocation of what those benefits
10 would be between the developer or ecoPower or whomever
11 and Kentucky Power?

12 A That is my understanding, yes.

13 Q And -- okay. So I understand that.
14 Thank you.

15 Let me turn to your analysis with
16 respect to the RECs. And once again you talk about
17 cost to the customers and the negative cost. And what
18 I thought I heard the testimony yesterday from
19 Mr. Godfrey, I believe, was that there is -- in a
20 contract like this, there is -- there's an allocation,
21 either expressly or implied, between different
22 elements such as capacity, such as energy, such as
23 environmental attributes, such as ancillary services,
24 and that this -- well, let me ask this: Is there an
25 express -- does the contract have an express

1 allocation as to what the dollar amount assigned to
2 RECs will be?

3 A No, it does not. The analysis I was
4 performing was simply the kind of analysis that you
5 see utilities all around the country calculate in
6 terms of a renewable premium or a REC cost, where they
7 are simply taking that renewable contract price and
8 backing out the beneficial elements of avoided energy
9 costs after avoided capacity costs similar to what
10 Mr. Wohnhas did in his testimony.

11 Q Okay. And likewise, just what the
12 imputed or implied costs would be for capacity, I
13 mean, it's the -- is that fair?

14 A Yes. I mean, these are the three main
15 pieces --

16 Q Okay.

17 A -- of this contract. It has no
18 ancillary service value.

19 Q Okay. So then talk to me about -- did
20 you, in your testimony -- so, for example, on page 16
21 of your testimony, and mine doesn't have lines, so
22 this is the question about based on cost and sales
23 price estimates provided above, what range of
24 above-market REC costs might the Company's customers
25 be forced to bear over the term.

1 I guess my first question is: Like my
2 question with respect to the PTCs, this is not an
3 additional cost to the customer, it's, in effect, a
4 lack of a benefit or addit -- or additional costs that
5 were built into the -- it's not incremental costs; is
6 that correct?

7 A You're absolutely right.

8 Q Okay.

9 A These are not incremental costs.

10 Q Okay. So then my next question is: If
11 one uses -- or your answer is, (Reading) If one uses
12 450 [sic] megawatt hours per year estimate of
13 generation from the ecoPower project, data request of
14 \$38 REC cost and a \$6 REC sales price.

15 So you -- in here we were imputing, if
16 you will, or implying a \$50 REC cost, and so the loss
17 or the cost comes if you're selling it between 2 to \$6
18 and the -- and you're -- one is imputing a \$50 REC
19 cost, then that's where that loss is, if you will?

20 A Exactly. Effectively what I'm trying to
21 capture here -- maybe it's better to think of the
22 ecoPower facility as a REC factor rate. That's, in
23 effect, the proposition here, where Kentucky Power's
24 customers will be paying a particular contract price,
25 the facility will be generating capacity and energy,

1 the benefits of that will also be accruing to the
2 Kentucky Power customers. So effectively there's this
3 residual cost that, in effect, they are paying for
4 RECs that are not currently needed under any sort of
5 Kentucky state statute.

6 Q So they've --

7 A If --

8 Q -- gotta go to the market?

9 A Right. So if you go to the market,
10 then, how much did it cost this factory to produce the
11 RECs? The first point that I want to make here is
12 that these numbers are rather conservative. I used
13 the Kentucky Power's estimates of 2017 and on out of
14 what they thought market prices might be for energy
15 and for capacity.

16 If I used Mr. Wohnhas's numbers for the
17 first year numbers, instead of a base case of \$50 per
18 REC, we're really looking at numbers that are closer
19 to \$78 --

20 Q Okay.

21 A -- per REC.

22 Q Okay. Well, let me ask this: So you do
23 not -- or is your -- is the way this is done, it's one
24 doesn't actually compute what the REC cost is? What
25 one does is look at what the energy and capacity cost

1 is and then subtract that?

2 A Exactly.

3 Q Really? Okay.

4 A So this is the residual cost.

5 Q Okay.

6 A So from a factory standpoint, how much
7 does it take for these RECs to roll off the assembly
8 line.

9 Q Okay.

10 A And the \$50 number is, as I say, I think
11 a very conservative number. I just used the future
12 assumptions that were provided by the Company. But as
13 far as a first-year cost, where we were seeing in
14 Mr. Wohnhas's testimony something along the lines of a
15 net \$35 million cost for Kentucky Power's customers,
16 if you divide that number by the 450,000 megawatt
17 hours, you're talking about this factory producing
18 RECs at something closer to \$78 a megawatt hour.

19 Q Okay. So what you're saying is, is
20 that -- your testimony is that because the price is
21 high, if you will, that the actual base load energy
22 and capacity, we know what that is --

23 A Right.

24 Q -- that that's why the cost of REC
25 built -- the cost of the REC part of it built into the

1 contract is therefore going to be much higher, and
2 that if you try to sell it -- or when one sells it,
3 the price is going to be low, so that's where that
4 loss comes in?

5 A Exactly.

6 Q It's basically another way of arguing or
7 supporting the position that the -- that this is a
8 very high price for renewables?

9 A Exactly.

10 Q Okay.

11 A I just wanted to come at it from a
12 different angle.

13 Q Okay.

14 A Certainly the idea of this being a REC
15 factory, if you will, is used in other utilities that
16 have RPS requirements. This is a common evaluation
17 metric to see which renewable resource really is
18 providing the RECs at the lowest possible cost, so
19 which REC factory makes the most sense.

20 Q Okay.

21 A The only difference is I -- again, I was
22 fairly conservative here. I did not include all the
23 costs that are generally included in other utility
24 solicitations. There's a debt equivalence value of
25 maybe another \$7 a megawatt hour that's usually added

1 on top of this number. And in most utility
2 solicitations there's any sort of costs of
3 transmission upgrades that also forms a transmission
4 adder, so -- but basically, in a nutshell, at a very
5 simplified level, with three moving parts here, a
6 contract price and a capacity and energy benefits,
7 this is the calculation that is --

8 Q Okay.

9 A -- is done by utilities around the
10 country.

11 Q Okay. And tell me about the -- there is
12 no -- the contract price will not increase if the REC
13 the RECs are sold for a low price, it's just that --
14 okay. I understand.

15 But there -- so what you're -- so now
16 what I want to do is, is ask a few questions related
17 to the sale of RECs --

18 A Certainly.

19 Q -- and in the market. And I guess is
20 there -- you've indicated that there's no risk -- that
21 the customers do not have a risk if -- in this if EPA
22 at some point says, you know, carb -- this is a
23 problem, carbon, carbon from a biomass facility or
24 carbon from any is, you know -- so that ecoPower
25 determines or its successor determines that it's

1 uneconomic to continue, there's no expenses allocated
2 to the customers at that point.

3 But what if -- is there a risk, because
4 these RECs are based on biomass, that their value
5 could be less than the value of RECs generated by wind
6 or solar going forward?

7 A There is a risk of that. Maybe to step
8 back for a second and really just talk about what
9 these RECs are within PJM. They have the GATS system,
10 the G-A-T-S, Generation Attribute Tracking System.

11 That GATS system basically is something
12 that every renewable resource signs up to be a part
13 of, and PJM uploads, I think on the tenth business day
14 of every month, what the meter generation was from a
15 renewable resource. And every megawatt hour, then,
16 that comes out of a renewable resource is tagged with
17 a serial number and tracking information about where
18 it came from, what the fuel was that went into
19 producing that, what the vintage is of the generation
20 of that REC, and when that facility actually came
21 on-line.

22 So then the owner of those RECs can go
23 into the marketplace and try and sell those.
24 Throughout PJM, though, each state has different
25 rules. For example, a number of the states have solar

1 RECs that need --

2 Q Right.

3 A -- to be part of their RPS requirement,
4 so those might trade at a premium. I know New Jersey
5 has rules against procuring any biomass RECs unless it
6 can be proven that the biomass is, quote, cultivated
7 and harvested in a sustainable manner, unquote.

8 Q So that would be the open --

9 A The closed loop --

10 Q Closed loop, right.

11 A -- biomass. So this is an open loop
12 using waste wood feature. Other states could adopt
13 similar kind of prohibitions.

14 I'd also have to say that in my
15 experience, the majority of utilities that are facing
16 RPS kind of state requirements tend to satisfy most of
17 their requirement through signing long-term contracts,
18 long-term REPAs.

19 The REC market out there is primarily
20 used for kind of topping off annual requirements, but
21 we're talking about a facility here that's going to
22 produce close to half a million RECs per year. If
23 there's no need for those in Kentucky, which currently
24 there's no RPS statute, and that may change, but going
25 on that premise for a moment that these are now ready

1 to be dumped in the market, I think that puts quite a
2 depressing influence on the market price.

3 Another thing to note about these RECs
4 is they do have a shelf life. There are various state
5 requirements. Ohio says that half of the renewable
6 energy must come from within state, and what is pulled
7 in from out of state has to meet various other
8 requirements and certainly has to be produced within
9 the last five years. Maryland has a three-year shelf
10 life. West Virginia has a one-year shelf life.

11 So if you're trying to sell these RECs
12 to say different counterparties, it can be
13 challenging. The buyers are certainly going to be
14 looking at their own state requirements and seeing
15 whether your RECs, as they have been cataloged and
16 certified through this GATS system, are going to allow
17 them to be qualified within their state RPS
18 requirements.

19 VICE-CHAIR GARDNER: All right. Thank
20 you.

21
22 * * *

EXAMINATION

1
2
3 By Commissioner Breathitt:

4
5 Q Is GATS G-A-T-S?

6 A Correct. Generation Attribute Tracking
7 System.

8 Q I'm trying to think how to be articulate
9 with a couple of follow-up questions I have to the
10 Vice-Chair. RECs are sold at an auction, or can they
11 be bilateral?

12 A They can be bilateral, and, in fact,
13 I've overseen REC transactions usually on a bilateral
14 basis myself.

15 Q But are they also sold at auction?

16 A I believe so. I -- subject to check.

17 Q So is there a REC catalog, so to speak,
18 where a REC purchaser would go and look at an array of
19 options to meet their portfolio standard?

20 A They would probably get in touch with a
21 broker who would be more in touch with canvassing the
22 market of who may have RECs to supply. There are --
23 under the GATS system, there's even a bulletin board
24 where --

25 Q Okay.

1 A -- those who have RECs for sale can post
2 their offers.

3 Q And your testimony on page 7 talked
4 about the ecoPower -- on line 3 and 4, the ecoPower
5 transaction RECs are likely to be much higher than
6 current and future REC prices.

7 A Correct.

8 Q And I think I am beginning to
9 understand, from the cross and the conversation that
10 you and the Vice-Chairman had, that the lower the REC
11 price, the more likely it is to be obtained or
12 purchased by someone needing those credits?

13 A Correct. I mean, first there needs to
14 be a need. So a utility or load-serving entity needs
15 to be in a situation where they are not covering their
16 RPS obligation with the amount of generation that they
17 have already secured, renewable generation under
18 contract.

19 So assuming that somebody is in a
20 deficient state, they can see that by the time they
21 get to the end of this year -- there's another point
22 there about the timing of all this, but assuming that
23 they're going to be in a deficient situation, that
24 they would go out looking for REC purchases.

25 What makes it a little bit difficult as

1 far as the timing is the states have different REC
2 seasons. Some of the states are calendar year RECs,
3 from January 1st through December 31s; other states
4 have a REC season that goes from June 1st to May 31st.
5 So it can get complicated as far as what a generator
6 of RECs is able to provide to these different market
7 sectors.

8 Q If an ecoPower REC is \$50, or you had
9 said it might be closer to 78 --

10 A Correct.

11 Q -- could that REC be -- could a REC
12 purchase be consummated at a lower price than, let's
13 say, \$50, just using that number?

14 A Absolutely. I mean, it's my thinking
15 that with renewable technology costs coming down so
16 much and there being quite a few projects out there
17 that are now able to generate basically renewable
18 energy at less than the brown power, that that's going
19 to create very, very low REC prices on the purchasing
20 side of the market.

21 So what we're looking at here is a very
22 expensive REC factory that's producing a product that
23 may only be going for a few dollars per REC in the
24 future.

25 Q So they can be sold, but at a lower

1 price?

2 A Correct.

3 Q Or it's possible they can be sold?

4 A They can be sold at any price.

5 Obviously ideally you would want a situation where, if
6 you did have a REC in factory, as I keep referring to
7 it, but a renewable power agreement that generated
8 RECs at very low cost, that if you were in surplus,
9 you could turn around and sell those, hopefully at a
10 price that's higher than what you were producing.

11 Q Okay.

12 A That would be a positive business
13 transaction.

14 What I'm seeing here with the ecoPower
15 transaction is something that's likely to be producing
16 RECs at a very high cost, and I don't think that the
17 countervailing revenues from any sales are going to be
18 a significant dent in that debt weight cost.

19 Q So the term you used in your
20 testimony -- I marked it, but I can't find it right
21 now, but it's --

22 A Above market cost, I think.

23 Q And that --- you used the term negative
24 REC?

25 A Negative --

1 Q That's what you mean by that?

2 A Yes. Yes. The negative renewable
3 premium or negative REC cost is simply where a
4 renewable contract has pricing that is so low that it
5 comes in below the cost of market purchases from brown
6 power or conventional resources.

7 COMMISSIONER BREATHITT: I don't have
8 anything else.

9 CHAIRMAN ARMSTRONG: Redirect.

10 MR. KURTZ: Thank you, Your Honor.

11

12

* * *

13

14

REDIRECT EXAMINATION

15

16 By Mr. Kurtz:

17

18 Q Let's just finish up a little bit on the
19 factory discussion. So at what price will the
20 ecoPower factory produce RECs?

21 A Well, based on Mr. Wohnhas's numbers,
22 the first year value seems to be closer to \$78 a REC.
23 With debt equivalence, that kicks it up into the mid
24 \$80 range. I was basing kind of my conservative
25 analysis just on the Company's forecast of energy and

1 capacity values, and that yielded a number in the
2 neighborhood of \$50.

3 Q Okay. And if -- so it's producing --
4 the factory's producing this product at a very high
5 price, the sales price is less, and that's how you're
6 concluding that consumers are harmed by \$288 million
7 to \$432 million?

8 A That's correct. The 288 was kind of a
9 low bookend. It was assuming the Company's highest
10 market price forecast, so that, in the arithmetic, it
11 squeezes that last residual renewable premium, the REC
12 cost, to the smallest possible number. The 432
13 million was using the base case numbers. Optically, I
14 probably failed to show this as appropriate bookends,
15 because really the bookend would be what happens if
16 market prices end up being low. And indeed Kentucky
17 Power did have a forecast there of low energy and
18 capacity prices over time, and if you use that
19 estimate, you end up with a \$504 million kind of
20 above-market loss.

21 Q So the full value over the full term of
22 this transaction is a multi-hundred-million-dollar
23 harm to consumers?

24 A That's correct.

25 Q Essentially, then, through this

1 contract, the consumers of Kentucky Power or Kentucky
2 Power would be a REC merchant generator?

3 A I think that that's an appropriate
4 characterization.

5 Q Right. Because they are making 450,000
6 of these RECs per year and they have no value in
7 Kentucky?

8 A That's correct.

9 Q So they have to be sold elsewhere, if
10 they can be sold elsewhere?

11 A That's correct. And there could be
12 impediments to that, as I elaborated.

13 Q And 450,000 is a lot, isn't it?

14 A It is.

15 Q Because, as you say, most utilities meet
16 their RPS standards on their own and then top off a
17 little bit?

18 A Exactly.

19 Q Do you know how many RECS are traded per
20 year nationwide? I have no idea?

21 A I don't have that information, no.

22 Q One question about the Big Sandy 1 RFP.
23 The Big Sandy 1 was an RFP that said, "Hey, if anybody
24 can beat our natural gas conversion, then feel free to
25 bid." That was it?

1 A That's the gist of it, yes.

2 Q And the natural gas conversion, we know,
3 is approximately a \$60 million enterprise to get
4 268 megawatts of capacity, correct?

5 A I take that as a representation, sure.

6 Q Now, but your point is that there should
7 have been an RFP to compare against the ecoPower
8 transaction, essentially, to see if there was
9 something cheaper than ecoPower, not cheaper than Big
10 Sandy 1?

11 A Yes. One would have expected that
12 during the course of these negotiations, when the
13 price started jumping up so significantly, that that
14 would have been the time that I think most utilities
15 would have said, "We're going to see what our other
16 options are and entertain other proposals to see if
17 this is justified."

18 Q So that would have been the
19 nonnegotiable situation? That would have been a good
20 time to say, "We're going to do an RFP to see if
21 there's a better price"?

22 A Right.

23 MR. KURTZ: Okay. Thank you,
24 Mr. Chairman.

25 MR. NGUYEN: No questions, Your Honor.

1 CHAIRMAN ARMSTRONG: Yes.

2 MR. GISH: Mr. Chairman, I have no
3 questions, I just want to move my exhibits into the
4 record.

5 CHAIRMAN ARMSTRONG: Without objection,
6 so ordered.

7 (Kentucky Power Exhibits 1, 2, and 3
8 admitted.)

9 VICE-CHAIR GARDNER: I have one
10 follow-up.

11 CHAIRMAN ARMSTRONG: Sure.

12

13

* * *

14

15

REEXAMINATION

16

17 By Vice-Chair Gardner:

18

19 Q One follow-up question, and you may not
20 know the answer to this. If they sell these RECs for
21 a loss, is that loss deductible on federal income
22 taxes?

23

24

25

A I don't believe it would show up as a
loss, because the renewable rider that's being
proposed for this case is indeed passing through all

1 of the -- all of the costs associated with the
2 ecoPower transaction, and the -- it's my understanding
3 that any sort of sales revenues that come from the
4 sale of the RECs will simply diminish that rider, but
5 I don't believe that's going to show up as kind of a
6 taxable event.

7 Q Do you know if, apart from the rider
8 issue, if those are considered losses for tax
9 purposes? And again, you may not. I'm just curious.

10 A I suspect not, but to be clear, for the
11 record, I do not know for sure.

12 VICE-CHAIR GARDNER: Okay. That's all.
13 Thank you. Thank you.

14 CHAIRMAN ARMSTRONG: Thank you,
15 Mr. Taylor.

16 THE WITNESS: Thank you.

17 CHAIRMAN ARMSTRONG: You are excused.

18 MR. KURTZ: Your Honor, our next witness
19 is Professor Coomes.

20
21 * * *

1 PAUL COOMES, called by Kentucky
2 Industrial Utility Customers, Inc., having been first
3 duly sworn, testified as follows:
4

5 DIRECT EXAMINATION
6

7 By Mr. Kurtz:
8

9 CHAIRMAN ARMSTRONG: Welcome. State
10 your name.

11 THE WITNESS: Paul Coomes.

12 CHAIRMAN ARMSTRONG: What do you do,
13 Mr. Coomes?

14 THE WITNESS: I'm a consulting
15 economist.

16 CHAIRMAN ARMSTRONG: How long have you
17 been in this job?

18 THE WITNESS: Well, I just retired last
19 year as a professor at the University of Louisville in
20 economics, and now I'm professor emeritus and have a
21 little more time to do consulting jobs.

22 CHAIRMAN ARMSTRONG: And you're here to
23 what?

24 THE WITNESS: So Kentucky Industrial
25 Utility Customers engaged me several months ago to

1 analyze the economic impacts of this proposal in
2 Eastern Kentucky.

3 CHAIRMAN ARMSTRONG: Welcome.

4 THE WITNESS: Thank you.

5 CHAIRMAN ARMSTRONG: Your witness.

6 MR. KURTZ: Thank you, Your Honor.

7 Q Dr. Coomes, do you have in front of you
8 the direct testimony and exhibits of Paul Coomes?

9 A I do.

10 Q Was this prepared by you or under your
11 supervision?

12 A It was.

13 Q If I were to ask you the same questions,
14 would your answers be the same?

15 A They would.

16 Q Any additions or corrections?

17 A I have none.

18 MR. KURTZ: Your Honor, the witness is
19 ready for cross.

20 MR. GARCIA: Thank you, Your Honor.

21 CHAIRMAN ARMSTRONG: Mr. Garcia.

22 MR. GARCIA: Thank you, Your Honor.

23
24 *

*

*

CROSS-EXAMINATION

1
2
3 By Mr. Garcia:

4
5 Q Mr. Coomes, good morning.

6 A Good morning.

7 Q In your testimony you stated that if the
8 ecoPower project goes forward, it is expected to
9 create local jobs in Eastern Kentucky, correct?

10 A In a gross sense, yes. There would be
11 jobs associated with construction of the generating
12 facility and then there would be trucking and logging
13 jobs to provide the fuel.

14 Of course, my analysis goes on to
15 compare that to alternative sources of energy, but
16 that's correct, there would be jobs associated with
17 the transaction.

18 Q Right. And since you started breaking
19 them out, there will also, of course, be the jobs
20 associated with the actual facility and the
21 generation?

22 A Yes.

23 Q Of course. And you indicated that those
24 jobs, according to your calculations, would result in
25 an estimate of \$6.4 million per year in total earnings

1 of workers?

2 A Something like that, yes.

3 Q And that number is actually for the
4 permanent jobs, right? That doesn't include the
5 construction jobs, so during the construction period
6 the number would be slightly higher?

7 A That's true.

8 Q Okay. Now, in your testimony, then you
9 go on to compare those numbers to a hypothetical
10 alternative of obtaining the same 58 megawatts of
11 power from a coal-fired generation in Eastern
12 Kentucky.

13 And here is my question: If the project
14 does not go forward, if the ecoPower project does not
15 go forward, that automatically by itself does not
16 create those coal jobs; is that correct?

17 A Say that again. If the -- you got too
18 many --

19 Q Right.

20 A -- negatives.

21 Q Sure. If the ecoPower project does not
22 go forward, that by itself does not create the coal
23 jobs that you are comparing to the ecoPower jobs that
24 are going to be created if the project goes forward?

25 A I'm not sure. So -- and this has been

1 educational for me the last two days, because I didn't
2 know about all these RECs and environmental side
3 constraints, but in my mind, Eastern Kentucky is very
4 rich in coal, has a long history of producing
5 electricity from coal. There are a lot of power
6 plants around the region and the rest of Kentucky. If
7 this plant produces a certain amount of electricity
8 and provides it to the market, that same amount of
9 electricity could also be generated using coal-fired
10 plants, either inside the Kentucky Power region or
11 around Kentucky from LG&E, KU, and others.

12 So to me it's the issue of a certain
13 amount of electricity that's being provided to the
14 market by one fuel versus the economic impact of
15 providing it from an alternative fuel, namely coal.
16 So that's the way I set the comparison up and did the
17 two simulations to determine the net economic impact
18 compared with the coal.

19 Q But in order to make an apples-to-apples
20 comparison, if you are going to compare the new jobs
21 that are going to be created by 58 megawatts of
22 generation from ecoPower, you would be comparing that
23 to the new jobs that would be created with 58
24 megawatts of coal-fired?

25 A Or another way to look at it would be,

1 if you put more power out into the system, into the
2 grid from the biomass facility, that would displace
3 electricity generated somewhat, maybe largely, by
4 coal, which would reduce the number of jobs in the
5 coal industry, correct?

6 Q But in order to make the comparison
7 apples to apples, you need to be looking at new jobs,
8 and you cannot, for example, build economically 58
9 megawatts of new coal-fired generation? That seems to
10 be an impossibility from an economic standpoint?

11 A I don't know, but my -- still my point
12 is, if you are generating that much power from biomass
13 and putting it into the market, it's displacing energy
14 that's produced by an alternative fuel, namely coal,
15 which would have a negative impact on the coal
16 industry, correct?

17 Q If that were going to be a displacement,
18 but you could have both.

19 A If the market demands it, I suppose.

20 Q Right. And the demand for coal-fired
21 generation, it's, so to speak, different than the
22 demand for renewable generation?

23 A I don't know.

24 Q Fair enough. Assume with me that these
25 are not displacing the jobs. Let me say that you can

1 have both.

2 A Okay.

3 Q If you were going to go ahead and have
4 the coal generation burn those 58 megawatts, you would
5 generate the severance taxes that you mentioned in
6 your testimony, correct?

7 A Yes, sir.

8 Q The fact that the ecoPower project goes
9 forward or doesn't go forward, if it doesn't go
10 forward, that wouldn't take away those taxes, right?
11 So there is nothing lost by going ahead with the
12 project?

13 A If this electricity that's being
14 generated displaces electricity that's generated from
15 coal-fired plants, it would reduce the demand for
16 coal, which would therefore reduce or eliminate that
17 amount of severance taxes.

18 Q But the assumption that I was giving you
19 is that it doesn't displace it.

20 A Oh. Well, you assumed the answer, then.

21 Q We just said that, right?

22 A You just assumed the answer by saying
23 that there's no effect on the coal industry, so
24 therefore your other statement would have to be true
25 that it wouldn't affect coal severance taxes.

1 Q Right. So assuming that there is no
2 displacement -- just so that we have a clear record,
3 assuming that there is no displacement, the fact that
4 the project doesn't go forward doesn't eliminate any
5 severance taxes by itself?

6 A You assumed the answer. Yes.

7 Q If the project were to go forward, and
8 that there would be no effect?

9 A Sure.

10 Q Let me ask you something else. You did
11 some analysis about the impact that you estimated in
12 household spending of the seven percent rate
13 associated with going forward with the project,
14 correct?

15 A Yes.

16 Q And in your testimony you indicated that
17 there was a seven percent impact, but then in your
18 exhibit you clarified that that number may be
19 overstated, correct?

20 A That's true.

21 Q Okay. And, for example, when you were
22 describing the effect of that increase in your
23 testimony, you indicated it would be about a hundred
24 jobs. In your report you actually explained that that
25 was probably overstated and that the number is roughly

1 83 instead of a hundred; is that correct?

2 A So -- and the reason is, in two cases --
3 in the first case I was assuming that consumers,
4 households, would not change the amount of electricity
5 that they purchased in response to higher electricity
6 prices, so that's a zero price elasticity assumption.

7 The literature -- we don't know. I
8 haven't studied Eastern Kentucky. It may be zero, I
9 don't know. But the national averages are more like
10 an elasticity of negative .2, which is a very small
11 substitution effect.

12 So, just for sake of academic honesty, I
13 made estimates that were somewhat smaller from a job
14 point of view, assuming that customers did some
15 substitution. For example, they may turn their
16 thermostat a few degrees and put up with more heat and
17 humidity and not have the air-conditioner run as long
18 when electricity prices are higher. Of course, that
19 means less sales to Kentucky Power if that's true.

20 But since you raised it, you do
21 understand I was only looking at the household
22 impacts, the residential customers. There's also
23 impacts that I have not quantified that would take a
24 lot of work, but I think everyone would agree there
25 would also be negative impacts on commercial

1 establishments, grocery stores, restaurants,
2 hospitals, et cetera, as they had to either reduce the
3 amount that they sold, go out of business, or raise
4 the prices to the local customers.

5 And then finally, there may be some
6 effects on industrial customers in the region if their
7 rates go up. Some may decide to leave the region.
8 Like no one can predict which company might leave. It
9 would be most likely the ones that are most -- the
10 highest energy users and the ones most sensitive to
11 that and are not able to pass prices along, their
12 costs along in the form of higher industrial prices.

13 So there's a lot more than those hundred
14 jobs, I think, at stake due to the rate increases.

15 Q Just to clarify, in your testimony you
16 indicated that you did not estimate those impacts for
17 commercial and industrial customers, correct?

18 A I have not made estimates of the
19 magnitude, but I assure you the direction is negative
20 for all customers. The reason I was able to do it for
21 the residential customers is I have this nice IMPLAN
22 model that we invested in, and it has beautiful, rich
23 estimates of how much customers at every income
24 bracket, households in the region, in the Eastern
25 Kentucky 20-county Kentucky Power Company territory,

1 how much each customer by income bracket spends on
2 electricity per year and also what they spend for
3 everything else in their household budget.

4 So I had a tool that I could easily make
5 an estimate of the negative job impacts on the region
6 from higher electricity rates on residences and
7 households, but I don't have an easy tool -- it's much
8 harder to do it for commercial and for industrial
9 customers, but it's --

10 Q And so --

11 A -- certainly negative.

12 Q And do I understand correctly that the
13 tool that you used doesn't account for the price
14 elasticity that you just described that --

15 A No.

16 Q Does not?

17 A It does not have price elasticities in
18 it. It is a static model, but you can make an
19 assumption based upon the literature and do a
20 simulation to find out the impact on any industry of a
21 price change or a reduction in demand, and that's what
22 I did.

23 Q Well, and the model will give you a
24 number that is slightly overstated, just like you
25 indicated?

1 A Which is why I did a second
2 simulation --

3 Q Fair enough.

4 A -- to be consistent with the literature,
5 and you end up -- I can't remember the number.
6 Eighty-five jobs instead of a hundred jobs, but
7 certainly negative.

8 Q Eighty-three is the number that --

9 A Is it? Thank you.

10 Q -- you have in your report. Did your
11 analysis calculate the impact of the increased
12 household spending by the families of the new
13 permanent and construction workers that would be
14 expected to gain employment as a result of the
15 ecoPower project?

16 A Well, I guess you're -- I didn't do it
17 exactly that way, but I've got a lot of the elements
18 here that -- where you could make that side-by-side
19 comparison. I think what you're wanting to do is say
20 there's some cost to customers of paying more for
21 electricity, but there is some benefit because there
22 are more employees related to production and of the
23 fuel acquisition and those salaries and wages that go
24 into the household income.

25 And based on what I've heard the last

1 two days, it's not a very favorable proposition in the
2 sense that it looks like you're proposing to raise
3 electricity rates by -- I heard anywhere from 28
4 million to 35 million yesterday. That gets passed
5 through in the form of higher costs to customers in
6 the region. Balance that against maybe, depending
7 upon whose numbers you want to use, 8, 10 million,
8 maybe even up to 15 million, if you want to be
9 generous, in the form of new income coming into the
10 region.

11 So if you want to think of the Eastern
12 Kentucky economy as a box of a certain size, and if it
13 gets bigger, that means the economy grows. The way --
14 what I've heard the last two days suggests that you
15 are taking 35 million out in the form of increased
16 electricity payments to the customers and you're
17 putting in 10 to 15 million in the form of new wages
18 and salaries to truckers, to people that work at saw
19 mills, to people that operate the plant.

20 So according to the numbers I've been
21 hearing the last two days, it's about two to one
22 negative if you want to put it in terms of an overall
23 cost-benefit for the region.

24 Q But, sir, just to clarify, you did not
25 carry out those calculations? You didn't plug in in

1 your calculations of your analysis the money that was
2 going to be coming in from the investment and from the
3 jobs, earnings?

4 A Well, I quantified the amount of jobs
5 and payroll related to the acquisition of the fuel
6 very clearly. There are several pages discussing
7 that. So I have an estimate. It's a little lower
8 than the one Kentucky Power and ecoPower provided, but
9 it's -- there is an estimate of the labor income.
10 Whether it's new or net new, that's a different
11 matter, but I certainly have estimates of the amount
12 of income in the region related to getting the biomass
13 fuel to the plant.

14 MR. GARCIA: Thank you. No further
15 questions of this witness, Your Honor.

16 CHAIRMAN ARMSTRONG: General.

17
18 * * *

19
20 CROSS-EXAMINATION

21
22 By Ms. Hans:

23
24 Q Help me understand in terms of your
25 responses so I don't have a lot of questions,

1 Dr. Coomes, but in terms of these -- this comparison,
2 and I think you said at this point it's running like a
3 two to one negative in terms of investment over --
4 what about a multiplier effect? So, for example, if
5 you create -- if you create a job, it might be based
6 on what kind of job, that you could have a positive or
7 negative multiplier effect in the region. Have you
8 studied that or do you have any comments about the
9 multiplier effect of job creation?

10 A Sure.

11 Q Okay.

12 A I can give a long seminar. I'll try to
13 resist.

14 Q I probably need to come and take your
15 class, sir. That's --

16 A There's plenty of multipliers being used
17 in the analysis, and they fall out of a very rich
18 model of the 20-county region that I have constructed.

19 Q Uh-huh.

20 A And it has a very, I believe, accurate,
21 reliable representation of all of the purchases
22 between -- among every industry in the region and
23 among households.

24 So that's how you get multipliers is you
25 construct a model and then you shock the system in

1 some way and see what happens to the rest of the
2 economy, and the ratio is a multiplier.

3 So we do have multipliers for the coal
4 industry, for sawmills, for lumber industry, for jobs,
5 for wages and salaries, et cetera.

6 So I can answer pretty much any question
7 you want about the application of multipliers to this
8 puzzle.

9 Q Uh-huh.

10 A It's not going to change the
11 characterization I just gave, though, because
12 you've -- if you're taking 35 million or 30 million
13 out of the economy and you're putting back in 10
14 million, it doesn't really matter what multiplier
15 you're going -- you have to use multipliers on both
16 sides. If you're taking money from households, then
17 they purchase less things in the economy, less retail
18 items, and then they purchase less from their
19 suppliers, and their employees have less income to
20 spend throughout the economy, and the ripple effect
21 keeps going there in the same way that it goes in a
22 positive direction when employees in the region have
23 more income.

24 Q Okay.

25 A They spend that on goods and services,

1 they spend it on their vendors. Their vendors have
2 employees, then they have more income and they spend
3 it, and it goes round and round. So -- but it
4 wouldn't change the net --

5 Q The net --

6 A -- conclusion that I'm drawing here from
7 what I've heard the last two days. At the time I did
8 the study, I didn't know about the 28 to \$35 million
9 hit that the regional economy would take from higher
10 rates, I only simulated what I thought it would be on
11 the residential side because I had the tool to do it,
12 so --

13 Q And just to follow up, that tool was
14 the -- that the -- Mr. Wohnhas's estimate as to the
15 seven percent? Was that the number that was used to
16 come up with that?

17 A I took that from some of the earlier
18 testimony that there would be a seven percent increase
19 in rates due to the ecoPower contract. I'm assuming
20 that's true. And then IMPLAN, the model that I have,
21 has nice estimates of how much electricity is
22 purchased from households at all income brackets in
23 the 20-county Eastern Kentucky region. So I took that
24 number, it was 230 something million dollars, I think,
25 in electricity expenditures, by households, looked at

1 what seven percent of that would be --

2 Q Uh-huh.

3 A -- and then shocked that -- the system
4 with a seven percent increase in costs for electricity
5 to those households and then used the model to predict
6 how that would lower their expenditures on other items
7 in the regional economy and then all the downstream
8 things that happen from that.

9 Q Presuming the actual impact, and we have
10 heard a couple of percentages, and again the seven
11 percent is what the Company is representing. There is
12 some testimony by Mr. Kollen that it could be higher.
13 I mean, that subject -- it was slightly higher than
14 the seven percent. And then the notice to the
15 customers, which Mr. Wohnhas, I wasn't -- I'm not sure
16 if you were here for Mr. Wohnhas's testimony --

17 A I was.

18 Q -- but the -- but the 8.69 percent which
19 was noticed to the customers but he explained would be
20 offset. But you only used the seven percent, right?
21 You didn't use those -- those additional numbers
22 weren't --

23 A All I had was seven percent, so --

24 Q So is the model flexible enough to
25 where, if you adjust it even by a half a percentage

1 point or a couple of percentage points higher, would
2 that -- do you believe, in your opinion, would that
3 affect this -- these total 83 jobs? I mean, would it
4 likely impact negatively more? I mean, would it -- or
5 impact the region negatively?

6 A It would -- the model, anyway --

7 Q The -- yes.

8 A -- is just a -- you know, a box.

9 Q It's just a tool, uh-huh.

10 A And it would just prorate. So it would
11 be a proportional increase in the job impacts if you
12 raised rates from seven -- instead of seven percent to
13 eight percent or nine percent --

14 Q Uh-huh.

15 A -- certainly, yeah.

16 Q Do you think it would go -- I mean, and
17 again, you're -- you don't have your toolbox and your
18 model, and I understand that, but do you think it
19 would go over the hundred? You kind of gave that 83
20 to 100. Would it --

21 A In that range.

22 Q But that -- it would be about the same
23 thing?

24 A It would be about that range, about a
25 hundred jobs.

1 Q That answers my question.

2 A Yes.

3 Q Thank you.

4 A We're only talking here about
5 households --

6 Q Right.

7 A -- and the residential side of the rate
8 structure, not the commercial --

9 Q Not the commercial --

10 A -- or the industrial customers, yes.

11 Q Not the commercial-industrial class. I
12 didn't mean to interrupt you.

13 MS. HANS: Thank you, sir.

14 No further, Your Honor.

15 MR. NGUYEN: No questions, Your Honor.

16 VICE-CHAIR GARDNER: Yes, sir. Thank
17 you.

18

19

* * *

20

21

EXAMINATION

22

23 By Vice-Chair Gardner:

24

25

Q Dr. Coomes, I have just a couple

1 questions. The first has to do -- is just more
2 general about price elasticity of demand.

3 A Yes.

4 Q You stated you didn't consider that here
5 in your analysis; is that correct?

6 A Actually, I did consider it for the
7 residential customers.

8 Q Okay.

9 A It's sort of buried in the back, because
10 I got thinking about it after I assumed no
11 substitution, that maybe there would be some, so I
12 went to the literature and looked at some national
13 studies, and I cite one in there by Rand that
14 estimates that the price elasticity for electricity
15 for residential customers was about negative .2.

16 Q So tell me what that means.

17 A So what that means is, if you were to
18 raise electricity rates by ten percent, electricity
19 consumption would fall by two percent. So .2 is just
20 the ratio of the amount that the price is raised
21 versus the consumption decrease.

22 Q And --

23 A It's fairly small. Electricity has a
24 fairly small elasticity in absolute terms because we
25 can't do without it.

1 Q Okay. So a utility doing planning in
2 general should consider -- when they are forecasting
3 demand, should include a price elasticity if they're
4 assuming prices are going to be going up; is that --

5 A I'm sure they do.

6 Q Okay. And the Rand, is there -- so what
7 you did was, the study was limited to or was -- you --
8 what you did was look at electricity specifically?

9 A Yes.

10 Q Okay. And maybe if you were discussing
11 this in response to questions to Mr. Garcia, I missed
12 it, and I apologize. So is there -- is that
13 regionalized at all? So in other words, if people are
14 lower income, does that impact -- like this
15 geographical area is lower income, does that -- would
16 the price elasticity be greater?

17 A That's a great question, and I can't
18 remember how much they cut it and parsed it in the
19 study. Your basic statement I agree with, that low
20 income customers will be less price sensitive to
21 electricity, because it's one of the things you have
22 to purchase, like food, and so you just absorb it and
23 you have less money available for other things. You
24 have to keep the lights on and the refrigerator
25 running and heat your house.

1 Q So, I mean, I could make an argument
2 that they could do -- because of the -- but I don't
3 know, I'm not an expert, but I could make a -- it
4 seems like I could argue that they would, in fact,
5 have the air-conditioner on less or they would have
6 the TV on less if their total income that they have to
7 spend -- so you're saying that is probably not
8 accurate, or are you -- or you just don't know? I'm
9 just --

10 A Yeah, I'm really not prepared --

11 Q Okay. That's fine.

12 A It wouldn't take me much work to answer
13 these questions very well, but I have not looked at it
14 in the last few years.

15 Q And that would -- would that be in the
16 Rand --

17 A There are some good estimates in the
18 Rand study, yes.

19 Q And did it look at income in there that
20 you recall or not?

21 A I can't remember.

22 Q Okay.

23 A I know it had some regional differences.

24 Q Okay.

25 A And it also distinguished between

1 short-term and long-term.

2 Q Okay. So --

3 A In the short term, like with gasoline,
4 customers tend to absorb price increases in the short
5 run. You know, they -- in other words, it's hard to
6 substitute if you already own your car and you have a
7 job that's 20 miles away or whatever it is, you're
8 just going to hold your nose and pay for the gasoline
9 if it goes to \$4 a gallon or 4.50 a gallon.
10 Electricity is the same way.

11 But over the course of five years or ten
12 years, you can make some changes, right? You can move
13 closer to work, work closer to home, buy a more fuel
14 efficient vehicle.

15 In the case of electricity, if
16 electricity prices stay high for a long time, people
17 would invest in more efficient air-conditioning units,
18 they would put timers on, they would learn to turn off
19 lights and change their behavior.

20 So in the long term, and this is true of
21 most things, consumers are more sensitive to price
22 increases than they are in the short run.

23 Q Okay. And then again following up -- or
24 following up on questions from Mr. Garcia about
25 assumptions, and I liked your quote about you assumed

1 the answer, so let me ask you this: It seemed to me
2 that -- I mean, you know that coal demand is down and
3 that there are loss -- and the jobs are like 5,000
4 less coal mining jobs in Eastern Kentucky. I mean,
5 are you aware of that generally?

6 A Generally. I mean, they did -- there
7 was some comeback a few years ago when coal prices
8 jumped, and there was some slight increase in coal
9 employment a few years ago. Perhaps it's down now.
10 And --

11 Q So you're --

12 A -- of course, in a secular sense it's
13 been going down for 50, 60 years regardless of energy
14 prices because of automation and the technology of
15 extraction, but go ahead. Sorry.

16 Q Well, it -- I mean, so specifically
17 you're not aware of all the publicity coming out of
18 Eastern Kentucky about the loss of coal mining jobs
19 because of EPA and the low natural gas price?

20 A I'm generally aware --

21 Q Okay.

22 A -- that there's -- it's very hard to
23 build a coal-fired plant anymore and that natural gas
24 is very inexpensive, and there's a lot of investment
25 going into electricity generation based on natural

1 gas. I'm aware of those things, yes.

2 Q Well, it just seems as if -- that you
3 assumed the answer as well --

4 A Okay.

5 Q -- that -- and that because there's not
6 the coal mining jobs, because there's not the demand
7 for coal generation of electricity, and it seemed as
8 if it's a false comparison, and that's my sense, of
9 not to include the reality on the ground in Eastern
10 Kentucky with respect to the generation of electricity
11 from coal and coal mining jobs generally. I guess
12 that's more of a comment. I don't know if you have
13 any response to that.

14 A I guess one could argue that this would
15 accelerate the decline in coal jobs if you displace
16 coal-fired electricity with biomass electricity. So
17 in that sense my comparison is fair.

18 Q Of course, a lot of it is driven by
19 legal requirements with respect to pollution, right?

20 A Yes, and that's where my knowledge
21 really gets fuzzy. I'm no expert on national energy
22 policy.

23 VICE-CHAIR GARDNER: Okay. That's all I
24 have thank you.

25 * * *

EXAMINATION

1
2
3 By Commissioner Breathitt:
4

5 Q I have a follow-up, Dr. Coomes. In your
6 exhibit, you, on page 2, state that -- you restate
7 that Kentucky Power Company and ecoPower Company have
8 testified that there will be about 30 full-time jobs
9 to operate the facility and 225 timber and trucking
10 jobs. And did I hear you say that your estimates were
11 a hundred jobs, but you amended that to 85? Where am
12 I getting that from?

13 A That's a separate -- we're confusing two
14 issues.

15 Q Okay. Well, I -- can you clear that up
16 for me, please?

17 A Sure. What you're look at is the jobs
18 associated with procuring the fuel and delivering it
19 to a facility --

20 Q Yes.

21 A -- and generating electricity. So
22 that's one issue. That's the first part of my
23 analysis is to compare wood versus coal.

24 Okay. The hundred jobs we were talking
25 about just now had to do with the negative impact of

1 higher residential electricity rates on households in
2 the region and then they have less money to spend in
3 their community, which then reduces employment.

4 Q So it's a loss? Your analysis calls
5 that a -- states that as a loss?

6 A Sure. It --

7 Q And did -- where does the 85 come in?

8 A The 85 was an adjustment I made --

9 Q Okay.

10 A -- to the hundred estimate --

11 Q Okay.

12 A -- under the assumption that customers
13 might substitute --- as electricity prices rise, they
14 may purchase less electricity, see, so that would free
15 up money that they could spend --

16 Q Okay.

17 A -- in a discretionary way --

18 Q Okay.

19 A -- in their community.

20 So the first assumption was they don't
21 substitute at all, they just eat the price increases,
22 and that absorbs a lot of their income, which reduces
23 the amount of dollars in their community, right?

24 The second analysis, subanalysis I did
25 was assuming that they did substitute somewhat away

1 from electricity and it wouldn't absorb so much money.

2 Q But on the last page of your exhibit you
3 make a statement, if I may quote from it, on page 3,
4 there's only one paragraph on that page, "but
5 certainly the regional economic impacts are negative."

6 And your analysis shows --

7 A I'm not sure exactly what you're
8 pointing to, but I know --

9 Q Well, the -- your exhibit.

10 A -- the question.

11 Q Your -- your --

12 A Oh, I see. Of my preliminary report.

13 Q Yes.

14 A On page 3.

15 Q It's your full report, and it's 12
16 pages.

17 A Yes, ma'am. I have it. I have it now.

18 Q Okay.

19 A So what I'm addressing there is I'm
20 acknowledging something and its directional impact
21 even though I can't quantify it. So I feel like I can
22 quantify the negative impact of higher rates on
23 households and the residential customers, but it would
24 be a lot of work for me to try to estimate the
25 negative impact on commercial customers and industrial

1 customers.

2 The industrial customers, it would
3 certainly raise the risk of them leaving the region,
4 shutting down their plant and moving to a lower cost
5 electricity region, but for me to predict which
6 company or which industry is almost impossible, so
7 that's why I couched it in more qualitative
8 statements. It's certainly negative, I just don't
9 know how negative.

10 COMMISSIONER BREATHITT: Okay. Thank
11 you.

12

13

*

*

*

14

15

EXAMINATION

16

17 By Chairman Armstrong:

18

19 Q Doctor Coomes, is there an impact on the
20 quality of life for the people who live in this area
21 of service, based on your studies?

22

23

24

25

A Well, it seems to me there's two things
going on. First, the cost of living is going to go up
because of the higher electricity rates, so that hurts
the standard of living, and it looks like it's about a

1 \$35 million hit.

2 On the positive side, under the
3 proponent's assumption, there would be some more
4 timber jobs and some generation jobs, so you have
5 whatever the number is, six million, nine million,
6 \$10 million worth of extra payroll from the biomass
7 facility -- whether it's extra or not we can debate,
8 but there it is -- versus a \$35 million increase in
9 the cost of living, so --

10 Q Do you know the average pay of a biomass
11 worker?

12 A No. I think it's been in some
13 testimony. The -- most of the jobs are in the
14 trucking industry and in the forestry industries, and
15 you're looking at \$12 an hour, \$14 an hour, that sort
16 of thing, 4 or \$500 a week. And I've got a chart in
17 here that compares it to coal, which is three times
18 that rate of pay. So I don't know about the
19 generation jobs, but I'm sure the proponents have a
20 number.

21 Q This is not pertinent. Mr. Coomes and I
22 used to work on trying to attract industries to
23 Louisville, and we used to judge it by hamburger
24 stands, didn't we? Would there be more Morton
25 Steakhouses or more McDonald's restaurants in the

1 service area?

2 A Well, the logging jobs and the trucking
3 jobs are not very -- they're not paid very highly, so,
4 you know, I'm sure somebody that gets a job is very
5 happy to have it, but -- and Eastern Kentucky is a
6 little different position than Louisville as far as
7 need for jobs, I appreciate that.

8 So I don't want to demean the jobs, I'm
9 sure they're -- they would be a nice addition to the
10 regional economy. So I don't think the region
11 would -- I'm sure the region would like to have those
12 jobs.

13 CHAIRMAN ARMSTRONG: Thank you.

14

15 * * *

16

17

REDIRECT EXAMINATION

18

19 By Mr. Kurtz:

20

21 Q Dr. Coomes, just a couple things. In
22 doing your analysis or any analysis of the economic
23 impacts, you cannot look at just the gross side of
24 either part of the equation, the ecoPower jobs versus
25 the rate increase. Don't you have to look at the net

1 effect?

2 A Yeah, the more comprehensive a picture
3 you take, I think, the more relevant it is for policy,
4 yes.

5 Q Now, you described the Eastern Kentucky
6 economy as a box. Do you recall that?

7 A You can characterize any regional
8 economy as a box, and you draw the line generally --
9 in this case it's based on a service territory, so
10 it's almost a legal jurisdiction.

11 Generally you start with commuting
12 patterns and look at where people live and work and
13 then you draw your box that way, but however you want
14 to -- once you define a regional economy for whatever
15 purpose, you can think of it as a box, and that box
16 only gets bigger if more money is coming in than is
17 going out, and that's the metaphor I was trying to
18 use.

19 Q That's what I wanted to ask you. If you
20 have a -- assume that \$9 million is going into the
21 box, the regional economy, from additional wages, and
22 35 to 39 million is coming out because of higher
23 electricity costs, that box is shrinking, correct?

24 A That would be my prediction.

25 Q And that means there'll be less jobs

1 total, correct?

2 A Yes.

3 Q That's because there's a multiplier
4 effect on both sides of the equation, as you have
5 indicated, correct?

6 A That's true.

7 Q Where is that money going? Where is
8 that 35 to \$39 million going?

9 A Well, obviously that wasn't part of the
10 scope of what I examined, but based upon what I've
11 heard the last two days, if you've got, let's say
12 \$35 million in new revenues and you're only paying out
13 6, 9, \$10 million in wages and salaries, the rest of
14 it has to go for capital equipment and supplies.
15 Trucks will be purchased, chain saws will be
16 purchased, other things to operate the plant will be
17 purchased.

18 A lot of those things -- most of those
19 things are probably not made in Eastern Kentucky,
20 which creates kind of a leakage. So if you purchase
21 trucks, large trucks, I don't think there's a truck
22 factory in Eastern Kentucky, so that money is going to
23 wherever the community is that makes trucks. Chain
24 saws, the money is going to the plant -- the community
25 that has the plant that makes chain saws. So you've

1 got a leakage there. Unless you can establish the
2 fact that all the things that go into running the
3 plant are produced in Eastern Kentucky, you've got a
4 leakage of dollars.

5 Q Well, the -- there's no -- a biomass
6 electric generation facility is a fairly complicated
7 piece of machinery; is that correct?

8 A I don't think I've ever seen one, but
9 any generating plant is -- yes, it's going to be
10 very --

11 Q Do you --

12 A -- sophisticated.

13 Q Do you know what part of the world
14 those -- that machine is manufactured in?

15 A No, but I don't believe there's a
16 turbine factory in Eastern Kentucky. I've never heard
17 of one.

18 Q Okay. If your conclusion is that the
19 box is -- the box is getting smaller, the Eastern
20 Kentucky economy is getting smaller, or would get
21 smaller as a result of in transaction and therefore
22 there would be a net job loss, can you estimate how
23 much the net job loss would be, or you just know
24 directionally there would be a job loss?

25 A Actually, I could, but I can't right

1 now. If I had been asked this question a week or two
2 ago, I could have done the calculations and made a net
3 estimate of this whole thing, but it was never
4 characterized that way until the last day or two,
5 so --

6 Q But there would be a net job loss, in
7 your opinion?

8 A That would be my forecast, sure. If you
9 take twice as much out as you put in, the economy will
10 get smaller.

11 MR. KURTZ: Thank you. Thank you,
12 Dr. Coomes.

13 CHAIRMAN ARMSTRONG: Anything?

14 MR. NGUYEN: No questions, Your Honor.

15 CHAIRMAN ARMSTRONG: Thank you,
16 Dr. Coomes. You're excused.

17 MR. KURTZ: Your Honor, KIUC's last
18 witness is Mr. Kollen.

19 COMMISSIONER BREATHITT: Mr. Chairman,
20 may we take a five-minute break?

21 CHAIRMAN ARMSTRONG: We're going to take
22 about a five-minute break and --

23 COMMISSIONER BREATHITT: Five or ten.

24 CHAIRMAN ARMSTRONG: Ten.

25 COMMISSIONER BREATHITT: Thank you.

1 Thank you very much.

2 MR. OVERSTREET: Thank you,
3 Commissioner.

4 (Recess from 11:47 a.m. to 11:58 a.m.)

5 CHAIRMAN ARMSTRONG: Back on the record.

6 MR. KURTZ: Oh, Your Honor, we call Lane
7 Kollen as our final witness.

8

9 * * *

10

11 LANE KOLLEN, called by Kentucky
12 Industrial Utility Customers, Inc., having been first
13 duly sworn, testified as follows:

14

15 DIRECT EXAMINATION

16

17 By Mr. Kurtz:

18

19 CHAIRMAN ARMSTRONG: Have a seat. Speak
20 up loud and clear. Your name?

21 THE WITNESS: My name is Lane Kollen.

22 CHAIRMAN ARMSTRONG: What do you do,
23 Mr. Kollen? What do you do, Mr. Kollen?

24 THE WITNESS: I am an economic
25 consultant and principal with the firm of J. Kennedy

1 and Associates.

2 CHAIRMAN ARMSTRONG: Located?

3 THE WITNESS: In Roswell, Georgia, a
4 northern suburb of Atlanta.

5 CHAIRMAN ARMSTRONG: What brings you
6 here?

7 THE WITNESS: I'm here to testify on
8 behalf of KIUC in opposition to the Company's request,
9 unnecessary rate increase, completely avoidable, for
10 capacity and energy that is not needed.

11 CHAIRMAN ARMSTRONG: Your witness.

12 MR. KURTZ: Thank you, Your Honor.

13 Q Mr. Kollen, do you have in front of you
14 a document, Direct Testimony and Exhibits of Lane
15 Kollen?

16 A I do.

17 Q Was it prepared by you or under your
18 supervision?

19 A Yes.

20 Q If I were to ask you the same questions,
21 would your answers be the same?

22 A Yes.

23 Q Any changes or corrections?

24 A No.

25 MR. KURTZ: Your Honor, I tender the

1 witness for cross.

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

3 CHAIRMAN ARMSTRONG: Mr. Gish.

4

5 * * *

6

7 CROSS-EXAMINATION

8

9 By Mr. Gish:

10

11 Q Good morning, Mr. Kollen.

12 A Good morning. Well, it is --

13 Q Good noon.

14 A -- for about 38 seconds, right.

15 Q You obviously reviewed the REPA in this
16 case, correct?

17 A Parts of it.

18 Q And you reviewed Section 6.1?

19 A Refresh my recollection, please.

20 Q Mr. Kollen, I have handed you what is
21 Exhibit -- part of Exhibit JFG-1. The version I
22 handed to you is labeled confidential, but the
23 materials we are going to discuss are not confidential
24 and the highlighting that is in here is not
25 confidential highlighting, it's just my highlighting.

1 And I probably should have -- and I apologize for not
2 using a different color than yellow. Are you familiar
3 with Section 6.1?

4 A I have read it.

5 Q Okay. Have you reviewed Section 6.1(C)
6 and Section 6.1(D)?

7 A I have read them.

8 Q And Section 6.1(C) allows the Company to
9 terminate the REPA in the event that the Commission
10 takes an action, an order or otherwise, to invalidate,
11 terminate, revoke, modify, or disallow or has the
12 effect of disallowing concurrent recovery by the
13 purchaser of an amount that is greater than five
14 percent of all the costs, rates, terms, and conditions
15 associated with the REPA; is that correct?

16 A Yes. That's what it says.

17 Q And Section 6.1(D) similarly allows the
18 Company to terminate, again without any further
19 financial or other obligation, the REPA in the event
20 that the Commission invalidates, terminates, revokes
21 modifies, or disallows or takes an action that has the
22 action of disallowing concurrent recovery by the
23 purchaser.

24 This 6.1(D) is slightly different than
25 6.1(C) in the effect that it gives ecoPower the

1 opportunity to mitigate the impact of the rate
2 recovery denial; is that correct?

3 A Generally I think I would agree with
4 that. I'm assuming that you're referring to the
5 unless and until provision in the middle of the
6 paragraph? The mutually acceptable amendment?

7 Q Yeah. Correct.

8 A Okay.

9 Q And in the event that a -- the -- no
10 mutually agreeable amendment to the REPA is agreed, or
11 the -- a -- the Commission denies mutually amended --
12 or, excuse me, mutually agreeable amendment, the
13 Company has the right to terminate the REPA; is that
14 correct?

15 A Could you repeat that?

16 Q That's a -- probably a long --

17 A It was kind of a messy question.

18 Q I'm sorry.

19 A So --

20 Q The -- if the Company comes to a
21 mutually-agreed-upon amendment to the REPA to address
22 the fact that the Commission has denied or revoked or
23 modified the Company's ability to obtain concurrent
24 cost recovery of an amount less than five percent of
25 the amount -- of the cost it needs to recover, that

1 amended REPA would be brought to the Commission, and
2 if the Commission denies that REPA, the Company can
3 terminate -- the amended REPA, the Company can
4 terminate it without further financial obligation; is
5 that correct?

6 A The Company can terminate if the
7 Commission does not provide recovery; that's correct.

8 Q So the Sections 6.1(C) and 6.1(D) give
9 the Company a right to terminate if concurrent
10 recovery is denied, correct?

11 A Right. They protect the Company on a
12 recovery basis.

13 Q And you're familiar with Senate Bill 46,
14 correct?

15 A Yes.

16 Q Which has been codified at KRS 278.271;
17 is that correct?

18 A I'm not sure what the subpart is, but
19 it's certainly in Section 278.

20 Q And can you turn to page 16 of your
21 testimony?

22 A Yes.

23 Q And can you read lines 6 through 11 and
24 stop after "decision"?

25 A Yes. Question: "Should the Commission

1 apply a strict scrutiny test when assessing the
2 Company's request to enter into this REPA and recover
3 the costs thereunder?"

4 Answer, (Reading) Yes. A strict
5 scrutiny test should be applied because of the special
6 regulatory treatment awarded to biomass power plants
7 by Senate Bill 46. Under this new law, once a biomass
8 power plant is approved for recovery from ratepayers,
9 the Commission can never revisit that decision.

10 Q This, Senate Bill 46, was passed
11 unanimously in the Kentucky state legislature; is that
12 correct?

13 A I've heard that. I don't know that
14 personally.

15 Q This was in the most recent legislative
16 session?

17 A Yes.

18 Q And did the Legislature mandate that the
19 Commission employ any heightened standard of review
20 for biomass agreements, strict or otherwise?

21 A Well, it did specify that no recovery
22 shall be allowed unless the full cost of the purchase
23 power agreement over the full term of the agreement,
24 which shall be included as part of the application,
25 have been found by the Commission to be fair, just,

1 and reasonable.

2 And I -- you know, I think that's
3 consistent with the standards that the Commission has
4 employed previously in assessing other contracts,
5 purchase power contracts, REPA or otherwise.

6 Q Okay. So there's no -- there's no
7 mandate to employ any heightened standard in the
8 legislation?

9 A I'm not sure I would call it a
10 heightened standard, but it does codify the standard
11 that the Commission has previously employed.

12 Q So the -- and you further testify that
13 the prohibition against subsequent Commission review
14 would appear to apply even if it later turned out the
15 contract was procured by fraud, that there was a
16 change in the law, if lower cost of resources were
17 available, or for any other significant reason which
18 we cannot envision now; is that correct?

19 A Yes.

20 Q Okay. And just so we're clear, nowhere
21 in your testimony do you allege any fraud in the
22 procurement of -- procurement of this REPA, right?

23 A No. I must say, I don't know why the
24 Company is in before the Commission proposing this
25 contract. I do not understand the rationale for it,

1 but I haven't alleged any fraud or any other
2 disreputable act.

3 Q Okay. So your concern, though, is that
4 if the Commission approves this -- the cost recovery
5 mechanism under this REPA, that it can never be
6 changed; is that correct?

7 A Well, it can never go down. Even though
8 there may be lower cost resources or if later on it's
9 discovered that there was fraud involved in the
10 negotiation or the procurement of this contract,
11 there's just no way that this contract price can be
12 modified, unless, for example, the Company were to
13 come in and ask for a reopener, but certainly it
14 wouldn't be in the Company's interest to try to bring
15 it down.

16 Q All right. But if -- just so we're
17 clear, that if the Commission approves the cost
18 recovery mechanism that the Company is seeking for
19 this biomass energy resource, under Senate Bill 46,
20 that cannot be changed for the full term of the REPA;
21 is that correct?

22 A Well, I'm not an attorney, but that's my
23 understanding. In other words, once the Commission
24 sets in motion its approval of this contract, that's
25 it unless the Company were to come in and seek a

1 reopener for whatever reason.

2 MR. GISH: No further questions, Your
3 Honor -- or Mr. Chairman.

4 MS. HANS: No questions, Your Honor.

5 MR. NGUYEN: No questions, Your Honor.

6 VICE-CHAIR GARDNER: I have a couple
7 questions.

8

9 * * *

10

11 EXAMINATION

12

13 By Vice-Chair Gardner:

14

15 Q Mr. Kollen, good afternoon.

16 A Good afternoon. It is now afternoon,
17 yes.

18 Q Right. My first question has to do
19 with, were you here when I was asking Mr. Wohnhas
20 questions yesterday about the capacity and the
21 imputation or implying capacity into the payments?

22 A Yes, I was here.

23 Q Okay. And so specifically I'm looking
24 at paragraph 43 of the amended application, which
25 states that -- one of the sentences is, (Reading) This

1 is done by imputing a portion of the net present value
2 of the stream of capacity payments as a debt
3 obligation of the utility for purposes of evaluating
4 the utility's credit statistics.

5 I think today Mr. Taylor helped me
6 understand this a little bit better, but let me ask
7 you if what I'm about to say is what this says and
8 what you understand it to be, which is that in these
9 contracts, these are just -- the payments, by
10 agreement of the parties, do not break down the
11 different component -- components of the stream of
12 money that would be coming to -- that would be coming;
13 is that correct?

14 A Yes, that's correct.

15 Q Okay. And therefore, one of your
16 concerns, and this is what -- where you quantified an
17 increase in the cost from 70 something to 780
18 something, I believe, is that it would, because of
19 that, what is a possibility is that, first of all,
20 there would be the amount that's energy, the amount
21 that capacity would be calculated, I guess by the
22 ratings agencies --

23 A Yes. There's a -- Standard & Poor's
24 uses a standard 50 percent ratio for that, so --

25 Q Between energy and capacity?

1 A Yes, it does.

2 Q Oh, okay.

3 A And, in fact, that's what the Company
4 reflected. Mr. Wohnhas wasn't quite correct yesterday
5 when he described this as being my analysis. I did
6 compute the effect on the rate increase, but the
7 Company itself did the analysis to determine the
8 amount of debt that Standard & Poor's would impute
9 and --

10 Q Can -- before do you that --

11 A Uh-huh.

12 Q So the first step is, is how much of the
13 payment is energy and how much is capacity?

14 A Yes, that's correct. And Standard &
15 Poor's --

16 Q Is that 50/50? Is that --

17 A Yes.

18 Q -- what you have -- okay.

19 A Yes.

20 Q So now we know how much is --

21 A Is capacity.

22 Q -- is capacity, and the Company agrees
23 with that calculation?

24 A Well, the Company did the calculation --

25 Q Okay.

1 A -- and assumed 50 percent.

2 Q Okay.

3 A And --

4 Q So the next step is, once we've got that
5 split -- well, how does the -- how do the RECs fit
6 into that if it's 50 --

7 A They do not.

8 Q Okay. So there's not allocated for
9 these pur -- this is different purposes than what
10 Mr. Taylor was talking about?

11 A That's correct.

12 Q Okay.

13 A That's correct.

14 Q So for purposes of this, the entire
15 payment is either going to be -- for Standard & Poor's
16 purposes, it's going to be either energy or capacity?

17 A Yes, that's correct. And Standard &
18 Poor's just simply assumes a 50 percent ratio.

19 Q Okay. So now we know how much is
20 capacity, how much of the payments coming are
21 capacity, and then the next step or concern is that
22 some of that has to be allocated to debt, because
23 there -- because -- because --

24 A Well, the assumption is that these
25 payment streams represent a debt equivalent liability,

1 and so if -- and this is the methodology that the
2 Company employed, which is consistent with the S&P's
3 methodology, but you project out for the lifetime of
4 the REPA the capacity portion of the stream of
5 revenues that will be going to the developer and then
6 you discount that back at a debt interest rate. That
7 then is the debt equivalent.

8 And then what Standard & Poor's does is
9 it applies a risk factor. And Mr. Wohnhas described
10 this in his direct testimony, and I generally agree
11 with that, with the exception of the risk factor that
12 would be applied. I think that the minimum that S&P's
13 would apply is a 25 percent risk factor, but the
14 Company did a ten percent and a 25 percent. And then
15 that defines, according to the Standard & Poor's
16 methodology, the debt equivalent.

17 And then what I did was I just said,
18 "Well, what does that then cost customers if you have
19 to add more equity in order to offset the" --

20 Q In order to maintain --

21 A -- "increase in the debt?"

22 Q -- the same ratio?

23 A The same capital structure, right.

24 Q Okay.

25 A And so that was the additional

1 \$4 million. That was the piece that I computed. The
2 Company computed the debt equivalent.

3 Q Okay. And then I have one more
4 question, and I raised this yesterday. It's on page 6
5 of your direct testimony, and it has to do with --
6 it's your paragraph beginning with "Sixth" and has to
7 do with off-system sales. And what you state here --
8 so currently -- and it's hard for me to keep these in
9 my head, but currently on off-system sales, 40 percent
10 goes to the Company and 60 percent to the customers?

11 A Yes, on the margins.

12 Q Right. Right.

13 A In other words, on the profit, right.

14 Q Right. So --

15 A And there's a base amount in base rates,
16 so we're only talking about the increment, the
17 increment in margins or the decrement in margins
18 that's shared 60/40.

19 Q Okay. And in the stipulation in
20 Mitchell, the Company would receive for the next
21 14 months or 16 months or whatever it is --

22 A Seventeen months.

23 Q -- they would -- yeah, 17. They would
24 receive the entire amount above that \$16 million,
25 \$17 million figure?

1 A I believe that's correct. The threshold
2 may have been raised. I don't recall the specifics of
3 that, but it would be a hundred percent over a
4 threshold level.

5 Q Okay. So is your concern that -- with
6 this point that they are building extra capacity that
7 is needed, therefore, they will be able to have --
8 should have additional off-system sales above what
9 they need and there's no reason for them to be able to
10 retain, going forward, 40 percent of the margins?

11 A Yes. That's correct. That's one
12 factor. That's one factor on the list here.

13 Q Correct. But that's what this factor
14 is?

15 A That's correct. Yes.

16 Q Okay. Did you quanti -- did you do any
17 sort of estimate as to what that might be?

18 A I did not. It would depend upon the
19 PJM, you know, the average off-peak/on-peak energy
20 pricing. But if you think that -- keep in mind that
21 the energy purchased under the REPA is must-run. In
22 other words, it's loaded first into the system. That
23 moves everything else up the stack. And so that means
24 there's simply that equivalent amount of energy or
25 perhaps even more, because you'll have lower cost

1 energy available to sell into the PJM market.

2 So there will be additional off-system
3 sales margins and there will be, more likely than not,
4 more than just the amount of energy that's being
5 purchased under the REPA.

6 Q Okay. Why for PJM purposes is this --
7 would this be considered must-run?

8 A Well, actually for purposes of the
9 Company, this is the way their energy loading would be
10 stacked. They're obligated to purchase it, and that
11 just -- would just simply be the sequence.

12 Q Okay. And therefore PJM recognizes that
13 bilateral agreement where they're --

14 A Yes.

15 Q -- required to do it and therefore that
16 would be stacked first?

17 A Yes, that's correct.

18 VICE-CHAIR GARDNER: Okay. That's all I
19 have. Thank you so much.

20 COMMISSIONER BREATHITT: No questions.

21 MR. KURTZ: Your Honor, I have no
22 redirect.

23 MR. NGUYEN: No further questions, Your
24 Honor.

25 CHAIRMAN ARMSTRONG: Thank you,

1 Mr. Kollen. You're excused.

2 THE WITNESS: Thank you, Your Honor.

3 CHAIRMAN ARMSTRONG: Anything else?

4 MR. KURTZ: No more witnesses, Your
5 Honor.

6 MS. HANS: None here.

7 CHAIRMAN ARMSTRONG: Has there been any
8 agreement, Quang, on --

9 MR. NGUYEN: Post-hearing data requests
10 or briefs, Your Honor?

11 CHAIRMAN ARMSTRONG: Yes.

12 MR. NGUYEN: No, we have not spoken
13 about that, but there's only a limited number of
14 post-hearing data requests that --

15 MR. OVERSTREET: Right.

16 MR. NGUYEN: So --

17 MR. OVERSTREET: You tell me, Quang.

18 MR. NGUYEN: How about two weeks, the
19 13th?

20 MR. OVERSTREET: That would be great.

21 MR. NGUYEN: And then briefs,
22 simultaneous briefs, ten days after that, the 23rd?

23 MR. GISH: That would be fine for the
24 Company.

25 MR. NGUYEN: That's on a Monday.

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. KURTZ: Kurt?

Yeah, Quang, that's great. Thank you.

CHAIRMAN ARMSTRONG: Once again.

MR. NGUYEN: Responses to post-hearing data requests September 13th and post-hearing briefs simultaneous September 23rd.

MR. OVERSTREET: That would be fine, Your Honor.

CHAIRMAN ARMSTRONG: Okay. Fine. Thank you all. We will adjourn.


(Hearing adjourned at 12:18 p.m.)

* * *

1 STATE OF KENTUCKY)
 2)) SS.
 3))
 4))
 5 COUNTY OF JEFFERSON)

6 I, Laura J. Kogut, Notary Public within
 7 and for the State at Large, my commission as such
 8 expiring 25 July 2015, do hereby certify that the
 9 foregoing hearing was taken at the time and place
 10 stated and for the purpose in the caption stated; that
 11 witnesses were first duly sworn to tell the truth, the
 12 whole truth, and nothing but the truth; that the
 13 hearing was reduced to shorthand writing in the
 14 presence of the witnesses; that the foregoing is a
 15 full, true, and correct transcript of the hearing to
 16 the best of my ability; that the appearances were as
 17 stated in the caption.

18 WITNESS my hand this 5th day of
 19 September 2013.

20 
 21 Registered Merit Reporter
 22 Certified Realtime Reporter
 23 KY CCR 20042BF060
 24 Notary Public, State at Large
 25