

BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

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DOCKET NO. 060555-EI

In the Matter of:

PROPOSED AMENDMENTS TO RULE
25-17.0832, F.A.C., FIRM CAPACITY
AND ENERGY CONTRACTS.



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VOLUME 1

Pages 1 through 117

PROCEEDINGS: HEARING

BEFORE: CHAIRMAN LISA POLAK EDGAR
COMMISSIONER J. TERRY DEASON
COMMISSIONER ISILIO ARRIAGA
COMMISSIONER MATTHEW M. CARTER, II
COMMISSIONER KATRINA J. TEW

DATE: Thursday, November 9, 2006

TIME: Commenced at 9:45 a.m.

PLACE: Betty Easley Conference Center
Room 148
4075 Esplanade Way
Tallahassee, Florida

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REPORTED BY: JANE FAUROT, RPR
LINDA BOLES, CRR, RPR
Official FPSC Hearings Reporters
(850) 413-6732 and 413-6734

1 APPEARANCES:

2 SENATOR MICHAEL S. BENNETT, representing District 21.

3 SUSAN CLARK, ESQUIRE, representing Florida

4 Power & Light Company, Progress Energy Florida, Tampa Electric
5 Company and Gulf Power Company.

6 ROB HUNTER, representing Green Coast Energy, Inc.

7 KATHRYN G. W. COWDERY, ESQUIRE, representing Covanta
8 Energy Corp.9 RICHARD ZAMBO, ESQUIRE, representing the City of
10 Tampa, Solid Waste Authority of Palm Beach County, Florida
11 Industrial Cogeneration Association and Covanta Energy Corp.12 ROBERT SCHEFFEL WRIGHT, ESQUIRE, representing
13 Montenay-Dade Limited and Lee County.14 JON MOYLE, ESQUIRE, representing Wheelabrator
15 Technologies.16 SUSAN GLICKMAN, representing the Natural Resources
17 Defense Council.18 FRANK SEIDMAN, representing FICA, Solid Waste
19 Authority of Palm Beach, City of Tampa and Covanta Energy Corp.20 MICHAEL BEDLEY, representing FICA, Solid Waste
21 Authority of Palm Beach, City of Tampa and Covanta Energy Corp.22 MARC BRUNER, representing the Solid Waste Authority
23 of Palm Beach.

24 DAVID McCRARY, representing the City of Tampa.

25

1 APPEARANCES (continued):

2 SAMI KABBANI, representing Covanta Energy Corp.

3 LEON JACOBS, ESQUIRE, representing the Natural
4 Resources Defense Council.

5 LARRY HARRIS, ESQUIRE, JUDY HARLOW, MICHAEL HAFF and
6 TOM BALLINGER, representing the Florida Public Service
7 Commission staff.

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EXHIBITS

NUMBER:		ID.	ADMTD.
1	Staff Composite Exhibit	38	38
2	Supplemental Comments of Investor-Owned Utilities	39	39
3	11/4/06 Tallahassee Democrat Article	39	39

CERTIFICATE OF REPORTERS: 117

P R O C E E D I N G S

1
2 CHAIRMAN EDGAR: Good morning. Welcome all. And for
3 those of you that were with us the past three days here in the
4 hearing room, welcome back.

5 We will begin by asking our staff to read the notice.

6 MR. HARRIS: Pursuant to notice published
7 October 13th, 2006, this time and place has been set for a rule
8 hearing in Docket Number 060555-EI, Proposed Amendments to
9 Rule 25-17.0832, Firm Capacity and Energy Contracts.

10 CHAIRMAN EDGAR: Thank you, Mr. Harris.

11 And as always, for our next step I'm going to ask for
12 the attorneys representing parties in our discussions today to
13 give appearances.

14 MS. CLARK: My name is Susan Clark. I'm with the law
15 firm of Radey, Thomas, Yon & Clark, and I'm here today on
16 behalf of the four investor-owned utilities, Florida Power &
17 Light, Progress Energy, Tampa Electric Company and Gulf Power
18 Company.

19 CHAIRMAN EDGAR: Thank you.

20 MR. HUNTER: My name is Rob Hunter. I'm the Director
21 of Operations for Green Coast Energy. I'm not an attorney, but
22 I'm a renewable developer and I'm speaking on behalf of my
23 firm. Thank you.

24 CHAIRMAN EDGAR: Thank you.

25 MS. COWDERY: I'm Kathryn Cowdery with Ruden McClosky

1 located in Tallahassee, Florida, representing Covanta Energy
2 Corporation.

3 MR. ZAMBO: Rich Zambo, an attorney representing the
4 City of Tampa, the Solid Waste Authority of Palm Beach County,
5 the Florida Industrial Cogeneration Association, and co-counsel
6 with Kathryn Cowdery with regard to Covanta Energy.

7 CHAIRMAN EDGAR: Thank you.

8 MR. WRIGHT: Good morning, Madam Chairman and
9 Commissioners. I'm Schef Wright. I'm with the law firm Young
10 van Assenderp in Tallahassee. I have the privilege to
11 represent Montenay-Dade Limited, which operates the Dade County
12 Resources Recovery Facility, and also Lee County, Florida, in
13 these proceedings. Thank you.

14 CHAIRMAN EDGAR: Thank you.

15 MR. MOYLE: Good morning. Jon Moyle with the Moyle,
16 Flanigan Law Firm appearing today on behalf of Wheelabrator
17 Technologies, which is a waste energy company. They have
18 three plants in Florida and are one of the largest waste energy
19 companies in the country.

20 CHAIRMAN EDGAR: Thank you. Just a few reminders.
21 This is a rule hearing which will be conducted according to the
22 provisions of Section 120.54, Florida Statutes, and
23 Rule 28-103.004, Florida Administrative Code. The purpose of
24 the hearing today is to allow the Commission to inform
25 ourselves of matters related to the proposed rule language, to

1 give interested persons an opportunity to present statements,
2 evidence and even maybe some arguments, and the opportunity for
3 the Commissioners to ask questions and for all of us to have
4 some discussion. We will be proceeding somewhat informally and
5 will not be swearing witnesses, but I will ask you to go
6 through the Chair so that we can move through things in an
7 orderly manner.

8 We've passed out, I believe, an agenda with the order
9 of speakers that we will follow. And I'm going to begin our
10 discussions today by recognizing and asking for some opening
11 comments by Senator Bennett. We are very pleased to have the
12 senator with us here this morning. The senator has recently
13 chaired the Community Affairs Committee, the Joint
14 Administrative Procedures Committee, and we're pleased to say
15 has an interest particularly in the Public Service Commission
16 by having served on the nominating council. Senator, welcome.

17 SENATOR BENNETT: Thank you very much, Madam
18 Chairman, members. I do find myself in kind of an unusual
19 position today being Chair of Community Affairs, then also
20 being Chair of JAPC and the rules that you all are going to
21 propose, and also being Chair of the Public Service Nominating
22 Council. It's kind of, kind of an interesting role. But more
23 importantly, I find my background of trying to establish for
24 the State of Florida the Century Commission. The Century
25 Commission, we set that up in Senate Bill 360 to really look at

1 a sustainable Florida. We wanted a Florida that we could look
2 out 50, 100 years and hope that your children and their
3 children and their great-grandchildren would have a Florida
4 that we would all be proud of and that we could all live in.
5 And some of the discussions we've had on there, as everybody
6 that's sitting up there today knows, I've been interested in
7 renewable energy since I first got elected to the Florida House
8 in 2000 and actually prior to that. And I found it very, very
9 frustrating that we don't seem to be able to make any progress.
10 And part of the problem that we've got on there is the
11 competing interests between the public utility companies and
12 the renewable energy providers.

13 When we passed the legislation in 2005 which gave you
14 the direction that we're here for today, it really was to give
15 you all the flexibility that you would need. Instead of us
16 trying to micromanage from the Florida Senate or the Florida
17 House what you all do, we wanted to provide you with the
18 flexibility to design rules that would protect the consumers of
19 the State of Florida. And often times it's come back to us,
20 well, yes, Senator, you can get the renewable energy, but it's
21 going to increase the cost to the consumer in the State of
22 Florida and we don't want to do that, and I've always disagreed
23 with that argument. It might increase the price a little bit,
24 but it's not going to increase the cost. If we have
25 sustainable energy and renewable energy in the State of

1 Florida, it'll decrease the cost because part of the cost is
2 polluted air, part of the cost is depleting our natural
3 resources. Those are costs. The price is what you actually
4 pay. It's the cost of not doing renewable energy that the
5 consumers and your children and their grandchildren are going
6 to pay if we all don't do something here.

7 We wanted you to have the flexibility, but we also
8 expected action. We also know that it's a tough, tough
9 situation. And I'd volunteer to the Chair that if we have got
10 to go back and adjust our statutes and give you more help and
11 maybe we left it a little confusing, maybe we left too much out
12 there that makes a conflict with your staff, maybe we weren't
13 clear enough, and I'm willing to go back and do that depending
14 on how these hearings come out. Because sometimes we rely on
15 staff, but staff often times has got also competing interests
16 because of the input from industry lobbyists, industry people
17 that they work with on both sides of the issue, and I recognize
18 that. But that's also -- if I remember correctly, other than
19 possibly Commissioner Deason, just about everybody that's
20 sitting up here today, when we interviewed you, everybody knew
21 my strong interest in renewable energy, and you all conveyed
22 that back us to. And that's why I'm here today is to make sure
23 that you all understand how important it was that when we
24 passed that legislation, we expected you all to make some bold
25 moves, we expected you all to take some serious steps that

1 looked at the future of the State of Florida and understood the
2 difference between price and cost. Because too many times we
3 hear one thing and we don't see the other, we don't see the big
4 picture.

5 We also wanted you to have the opportunity to look at
6 the situation of avoided costs. I've never understood -- and
7 I've seen it happen time and time again where the power company
8 will come in front of the Commission and say, look, it's
9 costing us 7.5 cents to produce this electricity, we're not
10 making money, we've got to increase our rate. I've never
11 understood why the 7.5 cents that they showed here is not the
12 7.5 cents that they show for avoided costs on the other side
13 from a renewable. We cannot expect the renewable companies to
14 take a financial risk if they can't get the financial return.
15 It's up to you all to take those bold steps and make sure it
16 happens, that we treat everybody on a fair basis, and that's
17 what we absolutely need.

18 If we're going to have a sustainable Florida, we're
19 going to have to have it with renewable energy. When the power
20 companies are buying fuel, and we've all seen what happened to
21 the fuel costs, and I understand that -- I saw a release the
22 other day that FP&L and a couple of others have thought the
23 rates are going to go down a little bit because the fuel costs
24 have come down, but we've put the consumer at the risk of
25 absorbing those rates because that gets all directly passed on

1 to them. And we've got to bring a way to level out that
2 playing field, and I think we can do that with renewable,
3 because renewable will not be subject to that same fluctuation
4 in fuel costs that we're putting on the consumer out there
5 today. So if we're really truly interested in the consumer,
6 we've got to look at the air that they breathe, we've got to
7 look at the resources we burn up, we've got to look at taking
8 the risk out of the fluctuations in the fuel costs, and we can
9 do that by having more assets at our disposal to generate
10 electricity.

11 I'm willing to listen to you, Madam Chair, or anybody
12 else on the Commission for changes in Florida Statutes that we
13 need to make your job easier, but at the same time I believe
14 it's up to you all to not be micromanaged by the Florida
15 Legislature, but I think taking the input from all of the
16 industry and see if we can't come up with a sustainable
17 Florida. That was the purpose of the legislation and that's
18 what I'm asking you all to really take to heart and see if we
19 can't come up with some rulemaking that makes this deal done.

20 I will answer any questions, if you want. I don't
21 want to hold up your hearing, but if there's anything in
22 particular, I'll be happy to tell you.

23 CHAIRMAN EDGAR: Thank you, Senator. Commissioners,
24 any comments for the senator before he leaves us today? No?
25 All right.

1 Thank you, Senator, so much for joining us.

2 SENATOR BENNETT: Thank you, Madam Chairman.

3 Appreciate it. Thank you.

4 CHAIRMAN EDGAR: Next on our agenda we have some
5 presentations by our staff.

6 MR. HAFF: Good morning, everyone. I'm Michael Haff.
7 I'm on the Commission staff. And myself and two others are
8 going to give a brief overview of the rule, proposed rule
9 amendments and some of the background that goes into planning
10 and pricing.

11 I'm going to be discussing basics on electric
12 planning and the economics that go behind utility planning.
13 Tom Ballinger is going to discuss the pricing options under the
14 value of deferral and Judy Harlow is going to discuss the rule
15 revisions that we have proposed.

16 Just a brief summary: Peak demand is the
17 instantaneous measurement of load at any point in time of the
18 day. This is actually an annual load duration curve, the red
19 line. The peak demand determines the timing and the size of a
20 needed new generating unit.

21 The net energy for load, NEL, is the accumulation of
22 demand over a period of time, and it's essentially the area
23 under the curve, as we call it, and it determines, it's one of
24 the determining factors in the type of a unit that's needed by
25 a utility.

1 Really we see there's really two ways to look at the
2 need for power. There's a reliability need, which is what we
3 normally bring to the Commission in a determination of need
4 process when a utility has a need for electricity. And the
5 reliability need is defined by the utility's peak demand
6 forecast plus a reserve margin. And that peak demand forecast
7 is net of all conservation and demand-side management that's
8 under the utility-sponsored DSM programs.

9 An economic need is really just the lowest
10 combination of total costs that make up a capacity type,
11 capital and fuel costs combined. And the primary driver behind
12 the economic need is the fuel price forecast, in particular the
13 differential between solid fuels and fuels such as gas and oil.

14 This slide is sort of a graphical summary of the
15 general relationship between capital costs and fuel costs. And
16 essentially on the left there, generally your fixed solid fuel
17 type plants have higher capital costs, nuclear are generally
18 the highest. Peaking units such as combustion turbines are
19 generally the lowest on a dollars per KW basis installed cost.
20 And on the right, the fuel cost, as you see, is generally the
21 inverse. The dispatch cost of combustion turbines is generally
22 the highest. As you work your way down on the dispatch curve,
23 nuclear is cheapest.

24 Which is the lowest cost alternative? And this is
25 information provided by Progress Energy from their 2006

1 planning studies. It's what's known as a levelized cost curve.
2 And in looking at it, you can see the different types of
3 technologies. The, the bottom axis is your capacity factor,
4 the amount of time that the utility would expect to dispatch
5 and operate this unit. And what you can see is for the flatter
6 curve such as coal and nuclear, in order to be the least cost
7 alternative, you generally have to operate it longer. The
8 peaking units such as combustion turbines are generally cheaper
9 if your need is not to dispatch often.

10 The economic decision that utilities make and that we
11 evaluate in determining options is cumulative present worth
12 revenue requirements. And to back up, the annual revenue
13 requirements for a utility for operating their system includes
14 the carrying costs of capital, taxes, insurance, operation and
15 maintenance and fuel. It's an all-in cost. These revenue
16 requirements over a period of time can be present valued back
17 to current dollars and summed in a single value, and that's the
18 cumulative present worth revenue requirements. This is the
19 method that utilities use for performing their long-term
20 analyses of alternatives. And as you may know, the lowest
21 cumulative present worth revenue requirements equals the least
22 cost alternative for utility customers.

23 Here's an example you may have seen from
24 Florida Power & Light's Clean Coal Study from early 2005. The
25 data comes from the study. What this is is a graphical

1 representation of a choice that FPL made for a, at the time it
2 was a 2011 need for power, whether to build a combined cycle,
3 gas-fired combined cycle or a polarized coal unit, and the
4 graph shows the cumulative present worth revenue requirements.
5 Everything above the axis is more costly and below the axis, of
6 course, is least costly.

7 What this shows is that the capital intensive
8 coal-fired unit that FPL evaluated requires a long-term
9 commitment and a number of years to obtain cumulative present
10 worth revenue requirement savings. Now, of course, the savings
11 are heavily dependent on the fuel price forecast, and in
12 particular the differential between coal and gas.

13 What we just talked about was an example of fuel
14 diversity and what would fuel diversity cost at the time a
15 utility is making a resource option choice. Now we're going to
16 discuss the assumption of what would fuel diversity cost if we
17 were to do it today? And what that would assume today is that
18 even without a need for power, we would assume the addition of
19 a hypothetical coal unit in 2006. What it would have the
20 effect of doing for the electric system is displacing the
21 operation of a natural gas unit with similar operating
22 characteristics. Typically the combined cycle units generally
23 run intermediate to baseload in a coal unit to baseloaded unit.
24 What you would get is energy savings because the gas-fired
25 energy is replaced by the least costly coal energy. Coal is

1 cheaper to, to run.

2 The effect of this is the existing units in the
3 utility's system remain in rates, and the additional coal
4 capacity, if you will, that's priced through contracts and the
5 energy of that unit is recovered through our adjustment
6 clauses.

7 There's no additional gas capacity cost associated
8 with this type of option. And the data that we're going to
9 show you here in a minute on the next page is from FPL again.
10 It's taken from their 2006 Ten-Year Site Plan and the
11 supplemental data that we asked for from that plan. And the
12 reason we're using FPL in this instance is they're really the
13 least -- or the most likely candidate if we were to pursue fuel
14 diversity now. As a percentage, FPL has a lot of gas-fired
15 electricity and as an aggregate amount has the most gas-fired
16 capacity of all the Florida utilities.

17 Currently in their Ten-Year Site Plan for 2006,
18 approximately 46 percent of their energy was to come from
19 natural gas. And despite their plan's inclusion of coal-fired
20 units in the outer years of the Ten-Year Site Plan because of
21 capacity needs prior to that being able to add the coal units,
22 they're still expecting almost 60 percent generation from gas
23 by 2015.

24 This graph is an assumption of whether we were to add
25 a -- assume the addition of a coal-fired unit that could enter

1 service today without being based on a reliability need. And
2 what this is is a comparison of a plan that has a coal unit
3 added in 2006, today, as opposed to a, say, a gas-fired
4 combined cycle unit.

5 And what it shows is there is some savings in the
6 first year followed by costs that never break even after that
7 point. This is, remember, this is the cumulative present worth
8 revenue requirements. The fixed costs of the coal plant, the
9 higher fixed costs are never offset by fuel savings if we were
10 to do the coal plant today. And the reason why is the cost
11 differential between gas and coal is, according to FPL's plans
12 and other utilities as well, the differential is wider in the
13 early years and they're expected to narrow as gas prices are
14 forecasted to decline from what late last year was pretty high
15 levels, over \$12 per MMBtu.

16 The thing to take away from this chart is for net
17 benefits to occur from doing fuel diversity today, the gas and
18 coal price differential would have to widen significantly and
19 sustain that differential for net benefits to occur.

20 The impact of, of fuel diversity today would be an
21 increased cost to customers because the plant does not show
22 cumulative savings. We have no future review of fixed costs
23 and, of course, there is a high risk of future fuel costs as
24 well.

25 And now I'm going to turn the next part of the

1 presentation over to Mr. Ballinger. Oh, I'm sorry.

2 CHAIRMAN EDGAR: Mr. Haff, before you do that.

3 MR. HAFF: Thank you.

4 CHAIRMAN EDGAR: I think we have a question.

5 Commissioner.

6 COMMISSIONER ARRIAGA: I don't, I don't have a
7 question for Mr. Haff. You can sit down.

8 CHAIRMAN EDGAR: Okay.

9 COMMISSIONER ARRIAGA: Madam Chairman, because you
10 told me that this was to be an interactive thing, I cannot let
11 the opportunity of the comments made by Senator Bennett, they
12 brought up two basic policy and legislative intent questions
13 that will help me set myself in the mind-set of what is going
14 to be proposed before we go into all these technical things
15 that are coming up that I know are, some of them are
16 mathematically complicated. So if you'll allow me two
17 questions, one to Ms. Clark in representation of the IOUs. I'm
18 going to pick of you from the renewables, it's going to be
19 Mr. Moyle.

20 So, Ms. Clark, would you please help me out? This is
21 a policy legislative intent issue. I read your supplemental
22 comments and they're very thorough, very convincing, very deep
23 in thought. And you seem to be suggesting that we take into
24 consideration, I'll use your own words, quote, Commission
25 long-held policy. Quote again, more than 20 years of

1 well-reasoned, equitable and successful Commission policy.
2 Quote again, no reason exists to create a separate rule for
3 renewable resources. How do you propose that we go about the
4 task of promoting renewable energy as mandated by the
5 Legislature -- you heard Senator Bennett -- if our decisions
6 are to be constrained by past policy and/or past precedent?

7 MS. CLARK: Let me say a couple of things about that.
8 Those policies were developed after thorough consideration and,
9 in fact, over the 20 years they were tested at various times to
10 see if they continued to be the best policy. The polestar was
11 and should continue to be: What is the cost to the customer?
12 That's why I think they're still valid today. Your staff is
13 going to show you about the value of deferral methodology.

14 The other thing I would say to you is I believe the
15 Legislature has looked at a proposal such as the renewables are
16 going to suggest to you today that is artificially providing
17 financial incentives to Mr. Zambo's clients, to require that
18 25 percent of the capacity in the state come from renewables,
19 and there's one other one, I'm missing it right now, but those
20 things, the three things that they proposed were considered by
21 the Legislature and rejected. The reason being is it increased
22 costs to customers without commensurate benefits to customers.

23 The statute hasn't changed regarding that polestar.
24 That's what 366.91 and 366.92 tell you: Accomplish these
25 things and at the same time minimize cost to customers.

1 What I would also say to you is the Legislature, I
2 think, recognized that this past year, and they have, and they
3 have passed some further legislation that was part of Senate
4 Bill 888 to further encourage renewables. There's tax credits
5 in there and there are grant programs. I think those are the
6 right ways to get it done.

7 Keep in mind, if you do what the renewable generators
8 are suggesting to you, particularly Mr. Zambo and his clients,
9 you will substantially increase prices to customers. I don't
10 think that was the intent of the Legislature. And as I think
11 Mr. Haff has demonstrated, that it's going to increase prices
12 with no benefits to them.

13 COMMISSIONER ARRIAGA: Thank you. And that brings me
14 to the second question because it's related, the answer is
15 related to the question, Mr. Moyle. I appreciate your answer,
16 Ms. Clark.

17 The IOUs, as you've just heard, contend that the
18 Legislature never intended that the cost of promoting
19 renewables be passed on to the general body of ratepayers. And
20 note that I'm saying cost, not price. And they specifically
21 quote, as you just heard from 366.91 and 92, quote, it is the
22 intent of the Legislature to promote the development of
23 renewable energy, and it continues, and at the same time
24 minimize the cost of power supply to electric utilities and
25 their customers.

1 So my question is is it your interpretation of the
2 statute that the Legislature intended that the cost, again,
3 cost, if any, of promoting renewables should be passed on to
4 the general body of ratepayers?

5 MR. MOYLE: Let me, let me respond to this. I'll
6 answer your question, but, but, you know, you heard from a
7 sponsor of the legislation. I knock around over at the
8 Legislature. Those are the folks that historically on the
9 floor I look to because they've carried the bill throughout the
10 process. And I think he, you know, he gave you some insights
11 as to what, what was in his mind. And I'll recognize that the
12 legislative intent is what took place back in 2005, and in that
13 case, you know, the way I read it, they said we need to move
14 the ball forward on renewable energy and we need to do it, and
15 we'd ask you all to help us in that.

16 And the first question you asked in response to about
17 the policy, and it's the long-adhered to policy, if I
18 understand things properly, you all are an arm of the
19 legislative branch and you all are charged with some
20 policymaking responsibilities. There's a rule of law, I've
21 heard it many, many years, that says one legislature can't bind
22 another legislature. You have to be able to be free to make
23 decisions to reevaluate things. And I would argue that that's
24 what you're being asked to do now. So this reliance on
25 something that happened 20 years ago, I think is -- I don't put

1 a lot of credence in it because, you know, I guess as he
2 alluded to, a number of y'all have been through the process
3 recently and I think heard comments on renewables, and I think
4 your charge is to look afresh and look anew at the renewable
5 energy issue and how best to structure it. You know, there's a
6 lot of ideas that have been put on the table. You know, the
7 cost is something that needs to be considered. I had some
8 questions that I was trying to understand better, and I
9 appreciate this is an informal process, about the slide because
10 I don't understand on the coal piece --

11 COMMISSIONER ARRIAGA: Can I interrupt you a minute?

12 MR. MOYLE: Yeah.

13 COMMISSIONER ARRIAGA: My question specifically was
14 if the legislative intent was to pass the cost of promoting
15 renewables, if any, to the consumer, the general body of
16 ratepayers. Would you answer that for me?

17 MR. MOYLE: I think it would be, yes, that it is, and
18 I think Senator Bennett said that.

19 COMMISSIONER ARRIAGA: Do you think the general body
20 of ratepayers should carry an additional cost to promote
21 renewable energy?

22 MR. MOYLE: I think that's the policy direction that
23 the Legislature said to achieve fuel diversity. You know,
24 natural gas is not where they want to be. They want to --

25 COMMISSIONER ARRIAGA: At the expense of the general

1 body of ratepayers?

2 MR. MOYLE: I think that's what they said.

3 COMMISSIONER ARRIAGA: Thank you.

4 CHAIRMAN EDGAR: Mr. Ballinger.

5 MR. BALLINGER: Good morning, Commissioners.

6 MR. MOYLE: Madam Chair.

7 CHAIRMAN EDGAR: Just a moment. Mr. Moyle.

8 MR. MOYLE: Would it be appropriate to ask Mr. Haff
9 some questions on a couple of those slides that he presented?

10 CHAIRMAN EDGAR: We can do that. Yes. Yes. We can
11 ask questions.

12 And, Mr. Haff, as you come forward, this may be the
13 appropriate time for an additional comment on procedure. We'll
14 always allow questions from Commissioners first. But if there
15 are questions from hearing participants, I will allow that,
16 remembering that it is for clarification purposes.

17 Mr. Moyle.

18 MR. MOYLE: And I would -- that's what I'm going to
19 try to do with respect to these slides. The first slide, I
20 think it was the first slide, the need for power, it talked
21 about a reliability need and economic need. I was curious with
22 respect to your understanding as to where the diversity need
23 fits in into, into that analysis, if it does.

24 MR. HAFF: I believe it fits into both. A utility
25 has a need for capacity, and at that time they pick the -- the

1 fuel diversity issue comes into play at that time when a
2 utility has a need.

3 MR. MOYLE: Are there situations where a utility will
4 say, well, we need -- we're too heavy in a particular fuel
5 source like natural gas; even though it's going to cost more,
6 we need to go pursue something else, coal or renewables? I
7 mean, is that something that you've seen and is accepted?

8 MR. HAFF: Well, we have in the past. You know,
9 going back 20 something years with oil backout projects, we've
10 had some that were approved by this Commission based on oil
11 backout on fuel diversity.

12 MR. MOYLE: So the policy decision has been made that
13 cost isn't the end-all driver, that diversity can at some
14 points be persuasive enough that a higher cost fuel will be
15 selected?

16 MR. HAFF: I think it just depends on the particular
17 situation, which utility, which case, and the issues it had.
18 It would have to be on a case-by-case basis.

19 MR. MOYLE: Okay. The capital cost versus fuel cost
20 chart, that's helpful to sort of understand that. I was
21 wondering where renewable, like a renewable resource would,
22 would fit into that chart.

23 MR. HAFF: Well, I think it depends. I mean, are
24 you -- if you're, I guess, a municipal solid waste facility,
25 your capital costs may be higher but your fuel would be lower.

1 If you're a, you know, methane gas producing facility, your
2 capital costs may be higher but your fuel would be lower.

3 Generally, the operational characteristics of some of
4 the waste facilities' renewables would have a higher capital
5 cost but a lower fuel cost. But it's not, you know, uniform
6 across the board.

7 MR. MOYLE: Yeah. If you had wind, wind would go
8 where, low capital costs, low fuel costs?

9 MR. HAFF: Wind would be a very high capital cost, I
10 believe, and a very -- well, I guess free fuel cost. Some
11 variable O&M, I imagine.

12 MR. MOYLE: Yeah. All right. Well, I just -- again,
13 as we're going through this -- I mean, one of the things I
14 think that you'll hear today a little bit is, you know,
15 renewable should be part of the, part of the mix, and I was
16 just trying to understand where that might, might fall in on
17 there.

18 One final clarification point. You went to that
19 slide about the cumulative present worth revenue requirements.

20 MR. HAFF: Was it that one?

21 MR. MOYLE: The economic decision, cumulative present
22 worth requirements, revenue requirements.

23 MR. HAFF: Is it that one, Mr. Moyle?

24 MR. MOYLE: Yes. And if I understand that, you just
25 explained you build one of these plants and you need to have

1 enough money to cover your, your debt and your O&M and your
2 fuel; isn't that right?

3 MR. HAFF: Yeah. This is just a general explanation
4 of how the revenue requirements are evaluated.

5 MR. MOYLE: Okay. Could that process also be applied
6 to a renewable energy generator?

7 MR. HAFF: Well, I guess the renewable energy
8 generator could do that internally. But, you know, from a --
9 this is primarily from where we evaluate a utility's request
10 for need and how they evaluate the least cost alternative.

11 MR. MOYLE: I just was wondering whether there's
12 anything -- you know, that's how it is with utilities is we're
13 looking at this with a fresh set of eyes. You know, I was
14 wondering if there was anything that said you can't, you can't
15 do this with renewable energy.

16 MR. HAFF: Well, if a renewable energy provider
17 was -- you know, say Mr. Hunter, who is a project developer,
18 was to pick among alternatives, he would probably look at the
19 one that's the, you know, best to him and lowers his costs.

20 MR. MOYLE: Okay.

21 MR. HAFF: And gives him the most opportunity to earn
22 revenues.

23 MR. MOYLE: Just one, one final question and then
24 I'll move on. But there was a discussion about the
25 hypothetical coal unit. I think you referenced, you know, FP&L

1 having 60 percent of generation from gas in the foreseeable
2 future. Do you recall that?

3 MR. HAFF: Yes. Yes.

4 MR. MOYLE: Is that too high of a, of a percentage of
5 gas?

6 MR. HAFF: I don't know if that's for me to judge. I
7 think that's a decision the Commission would have to make.

8 MR. MOYLE: I was just trying to wonder, are there
9 any parameters out there, industry parameters that say, you
10 know, like I know when you go to a person who helps you with
11 investments, sometimes they say, you know, you ought to have
12 this much in stocks, this much in bonds, this much in cash,
13 this much in foreign. And it seems to me that an energy
14 portfolio, an energy mix, and the Legislature is saying
15 diversity -- are there any parameters that you're aware of that
16 are out there to say here's sort of the ideal mix of fuels?

17 MR. HAFF: You know, that -- not that I know of. And
18 as I said before, if the Commission were to pursue that policy,
19 it would come from the Commission body. And that hasn't come
20 from the Commission body at this time.

21 MR. MOYLE: Do you think as staff that that would be
22 a wise thing to do, to set some parameters as to when you might
23 be too heavy in a particular fuel?

24 MR. HAFF: It's hard to say. We evaluate it on a
25 case-by-case basis among the utilities in the ten-year site

1 planning process.

2 MR. MOYLE: Okay. Thank you. I don't have any
3 further questions.

4 CHAIRMAN EDGAR: Thank you, Mr. Moyle.

5 MS. CLARK: Madam Chairman.

6 CHAIRMAN EDGAR: Just a moment.

7 Commissioner Carter.

8 COMMISSIONER CARTER: Thank you, Madam Chair.

9 Mr. Moyle, you mentioned diversity. I'm all in favor
10 of diversity, as you can probably see.

11 What, what type of diversity currently exists in the
12 renewable industry in Florida today? Can you give me the list
13 of what --

14 MR. MOYLE: Sure. And again, I'll go -- I may need
15 some help on this, but I'll kind of go from what, what I know.
16 I think you have some hydro that is up in North Florida, you
17 have waste energy facilities that are located in a number of
18 different places. That's encompassed within biomass. I think
19 you have some sugarcane product that is being used, the
20 Okeelanta/Osceola facilities that are down in the Glades. I
21 think they use bagasse is the term, which is a refuse from
22 harvesting sugarcane. I'm not sure that there's any wind in
23 commercial operation. I do understand, and I think one of the
24 investor-owned utilities is looking at some wind potential off
25 the New Smyrna, Daytona Beach area. And with respect to some

1 technologies that would try to use the Gulf Stream currents,
2 I'm told that there's some interest in investigation in that
3 technology, but that's not commercial at this point, but I
4 think it's something that's being looked at.

5 I do think also there's some solar energy that's
6 being, being put out there. And there's some landfill gas
7 presently where you take the methane out of the, out of the
8 landfill and clean up the gas and burn it to generate
9 electricity.

10 COMMISSIONER CARTER: Madam Chairman.

11 CHAIRMAN EDGAR: Commissioner Carter.

12 COMMISSIONER CARTER: Is there -- so primarily
13 there's hydro, waste and the biomass?

14 MR. MOYLE: Yeah. And the hydro is a small piece, I
15 believe, because --

16 COMMISSIONER CARTER: And an even smaller percentage
17 of photovoltaic and solar?

18 MR. MOYLE: I believe that's right.

19 COMMISSIONER CARTER: That's the current type of
20 diversity that exists in Florida?

21 MR. MOYLE: That's my understanding.

22 COMMISSIONER CARTER: And wouldn't you agree that in
23 order for there to be a complete renewable industry in Florida,
24 there should be a greater diversity of sources of renewable
25 energy?

1 MR. MOYLE: Yeah. I would agree with that. I think
2 that's part of the policy direction that's being provided is,
3 you know, throw a wide net, see what, see what's out there. I
4 think there may be opportunities for new technologies. I think
5 if the right circumstances are set out there, there may be
6 people that call you up that we're not even thinking about
7 today.

8 COMMISSIONER CARTER: Just one follow-up, Madam
9 Chair.

10 What do you think some of those ideas would be to
11 expand, to expand the scope of diversity?

12 MR. MOYLE: Yeah. I was going to provide this when I
13 had my comments later. But just in the last few days, you
14 know, driving around I'm hearing stuff about -- on NPR a group
15 said that they are advocating more self-reliance on energy
16 almost as a security matter and this was a change that included
17 nuclear. So I think, I think that was kind of an interesting
18 argument from a self-reliance security perspective.

19 In the Democrat this weekend, I was flipping through
20 it and there was an article about, about tides being used that
21 I'll provide copies, if that's okay, Madam Chairman. And
22 you'll see from this, this, this article, Commissioner Carter,
23 this is some, some folks that are looking at tides, generating
24 electricity and energy from tides. I mean, Florida is a
25 peninsula, has a lot of water, it has some potential there. I

1 think that potentially could be something that, that could be
2 pursued. And my friends with the investor-owned utilities, to
3 their, to their credit, I understand are taking some active
4 steps to, to explore ways to derive energy from the Gulf
5 Stream. It's the biggest river, I think, in the, you know, in
6 the world, the Gulf Stream, and I think, I think they are
7 looking at, at that as a potential resource.

8 COMMISSIONER CARTER: Madam Chair.

9 CHAIRMAN EDGAR: Commissioner Carter.

10 COMMISSIONER CARTER: Is there a balance between
11 the -- obviously every member of this Commission is, I think it
12 goes without saying, not just those of us that have been
13 recently appointed, but Commissioner Deason has extensive
14 experience and a commitment to renewable energy, so this
15 Commission is well on record as being in favor of renewable
16 energy.

17 Is there a balance between the need for diversity of
18 fuel sources and the costs to be borne by the grandmothers in
19 Palatka? Because, I mean, the bottom line is whether we call
20 it rates, price, costs or, you know, tomato or tomato, it's
21 still there's a person at the bottom line that's got to write
22 the check. So is there some kind of balance? What kind of
23 formula do you recommend there being?

24 MR. MOYLE: Yeah. In response, I would say, yes, I
25 think this is a balance. I mean, if you said, you know,

1 renewables, it doesn't matter if, you know, the sky is the
2 limit with respect to cost. I mean, I don't think, you know,
3 the renewable generators are advocating price is no object. I
4 think some of the things you're hearing is to say set a fair
5 price, set a price that a lender on Wall Street can look at and
6 say this is financeable. I will invest my capital in Florida
7 for this renewable energy project because I can evaluate the
8 risk, I understand the risk and, and, and it'll work. So I
9 think that, that what you're hearing from this side is to say,
10 you know, give us, give us a mechanism that will work, that
11 will draw capital down, and that will increase renewable energy
12 in the state. But surely there is, there is a balance.

13 You know, I don't -- I think some questions will come
14 out later on, but I'm told that currently, you know, we're at
15 under 2 percent of, of energy in the state. I mean, one of the
16 questions I had is, you know, how do we rank up compared to
17 other states with respect to renewable? I mean, are we in the
18 bottom quartile, the middle quartile? Where are we? And if,
19 if we're not doing as well as a number of other states should,
20 then I think that should provide some direction to say, well,
21 maybe we ought to roll up our sleeves and figure out some ways
22 to try to move up the ladder, if you will, in terms of the
23 renewable piece. But there is a balance. We're not saying,
24 you know, there's no, there's not financial restrictions on it.

25 COMMISSIONER CARTER: Thank you, Madam Chair.

1 CHAIRMAN EDGAR: Thank you.

2 Ms. Clark.

3 MS. CLARK: Madam Chairman, just if I may respond to
4 Mr. Moyle in his comment back to Commissioner Carter. Your
5 staff and the Department of Environmental Protection did do a
6 study about the commercially, the potential and commercially
7 feasible near term new renewable capacity that could be
8 developed in Florida, and people at this table had input into
9 that. And the estimate given at that time was approximately
10 651 megawatts of new, new capacity. That's on Page 10 of our
11 initial comments.

12 The other thing I wanted to ask Mr. Haff was
13 regarding the balancing of fuel diversity in terms of making
14 decisions for what capacity you are going to add, isn't that
15 part of the Ten-Year Site Plan and isn't it also part of a need
16 determination?

17 MR. HAFF: Yes to both of those questions. We have
18 an extensive section in the upcoming Ten-Year Site Plan report
19 on fuel diversity, and we have discussed it at length in the
20 prior years of Ten-Year Site Plan reports. And also that
21 discussion does come up in a determination of need process.

22 MS. CLARK: So it would be correct to say that the
23 Commission looks at this on a number of occasions.

24 MR. HAFF: Yes, we do.

25 CHAIRMAN EDGAR: Commissioner Arriaga.

1 COMMISSIONER ARRIAGA: Mr. Haff, Mr. Moyle made a
2 comment regarding a percentage of renewables, and you said
3 correctly that it was up to this Commission to make that
4 determination. But at the same time, every time I read your
5 recommendation to the Commission is to not make that, that --
6 to not set a goal, don't, don't set a benchmark. So how can it
7 be our decision if, at the same time, you're telling us not to
8 do that?

9 MR. HAFF: I believe what, what we need to do is, as
10 Mr. Moyle actually stated, is find a balance. Now what is that
11 balance? I'm not sure that I have the answer to that question,
12 striking a balance between encouraging renewables and, as may
13 have been said earlier, the impact on customers.

14 COMMISSIONER ARRIAGA: No. No. May I?

15 CHAIRMAN EDGAR: Uh-huh.

16 COMMISSIONER ARRIAGA: The point is that when I read
17 staff's recommendations, it specifically states that it is not
18 proper at this time to set goals. Why?

19 MR. HAFF: Set goals for renewables? Because --

20 CHAIRMAN EDGAR: Mr. Trapp.

21 MR. TRAPP: Commissioner Arriaga, if I may.

22 COMMISSIONER ARRIAGA: Yes, please.

23 MR. TRAPP: I think that if the Commission desires to
24 set numerical goals for renewables, that's certainly something
25 that the staff will pursue. I think the recommendation at this

1 point though is that we have, we have before you today what we
2 call a market-based proposal, and staff does feel fairly strong
3 about markets creating the necessary incentives for proper
4 economic reaction. And, therefore, if we can get the price
5 right such that there's at least no harm to the ratepayers,
6 that price should attract the right level of renewables or
7 conservation or anything.

8 The problem that staff struggles with with respect to
9 numerical goals of any kind is what are those goals? Are they
10 aspirational goals? Is it something that you tell your
11 teen-ager, you know, I'd like for you to be in by 10:00, but,
12 you know, if you make it by 11:00, that's okay, or is it, you
13 know, if you don't get here by 10:00, by gosh, you're going to
14 be grounded for a week? What are we going to do with those
15 goals, first of all? And then second of all, how do you set
16 the number? What is the number, what's the feel good number
17 for that that can be realized, meets economic, you know,
18 conditions and doesn't have adverse effects to the ratepayers
19 while still encouraging what it is you want to task? So
20 that's, I think, where we stand with it. But there again,
21 perfectly, my staff is perfectly happy to pursue numerical
22 goals, if that's the direction the Commission would like to, to
23 direct us to take you in. And I think that's what we're here
24 for. Rulemaking is for you to direct us where to go.

25 CHAIRMAN EDGAR: And if I may, in response to some of

1 those comments as well, to reiterate the point that Mr. Trapp
2 just made, that is part of what we are here for is to hear
3 discussion, have discussion and to give further direction to
4 our staff as to where we want to go from here. Part of that,
5 we have rule language that is before us for discussion and
6 consideration today. But we all know that this is a
7 multipronged effort. The rule is one piece of it and an
8 important piece, but there certainly are other components and
9 other actions that this Commission is taking. And certainly
10 other entities, the Legislature -- Senator Bennett mentioned
11 the Century Commission. I fully expect that the Century
12 Commission will be looking at some of these issues as well from
13 a broader perspective than our statutory authority allows. But
14 from where we sit, there are some other things that we are
15 doing, one of which, as you know, there are reports that our
16 staff is working on drafting and information that we are
17 compiling that is required that gives us an opportunity to look
18 at some of these issues later this year and next year with some
19 of the reports that we are required to do. And, as you know,
20 we are working on putting together a workshop in January to
21 bring in additional expertise from across the country to give
22 us the opportunity to further discuss these issues and to learn
23 more about what is out there about the technology, about what
24 some other states and others are doing as well. And I fully
25 expect that as -- and we've also brought in very recently some

1 additional staff expertise on these issues, and I am very
2 hopeful that as we fold all of that together, we'll have a
3 clearer picture of some of the things that we can do in
4 conjunction with the other efforts of the state. I would
5 expect that the goal discussion would be part of the discussion
6 at our workshop and part of what flows from that as well.

7 Mr. Haff, thank you very much. And, Mr. Ballinger,
8 before you start, I was going to take up the exhibits after the
9 staff presentations, but it looks like this may be a good time
10 to go ahead and do that. So, Mr. Harris, I believe we need to
11 go ahead and enter the staff composite exhibit into the record.

12 MR. HARRIS: Yes, ma'am. And we would suggest that
13 that be Exhibit 1.

14 CHAIRMAN EDGAR: So marked and moved.

15 (Exhibit 1 marked for identification and admitted
16 into the record.)

17 CHAIRMAN EDGAR: And then -- go ahead, Mr. Harris.

18 MR. HARRIS: Yesterday afternoon the IOUs filed some
19 supplemental comments, sent them out. I think the
20 Commissioners have copies; I provided some today. I think
21 Ms. Clark would probably like those to be admitted as
22 Exhibit 2.

23 MS. CLARK: Yes, please.

24 CHAIRMAN EDGAR: Okay. The supplemental comments
25 from the IOUs will be marked as Exhibit 2 and entered into the

1 record.

2 (Exhibit 2 marked for identification and admitted
3 into the record.)

4 CHAIRMAN EDGAR: And then, Mr. Harris, do we need to
5 go ahead and mark the article that was distributed by
6 Mr. Moyle?

7 MR. HARRIS: If Mr. Moyle would like that to be part
8 of the record, I think it should be marked, yes.

9 MR. MOYLE: Sure.

10 CHAIRMAN EDGAR: Okay. We will mark it as Exhibit
11 3 offered by Mr. Moyle, and we will mark it Tallahassee
12 Democrat Article 11/4/06.

13 (Exhibit 3 marked for identification and admitted
14 into the record.)

15 MR. ZAMBO: Madam Chairman?

16 CHAIRMAN EDGAR: Mr. Zambo.

17 MR. ZAMBO: Could I ask Mr. Haff a few short
18 questions?

19 CHAIRMAN EDGAR: You may.

20 Mr. Haff, will you join us again?

21 MR. ZAMBO: Mr. Haff, in your presentation on
22 economic decision, the CPW revenue requirements, I just wanted
23 to make or clarify, when we, when we talk about value of
24 deferral payments later, we talk about present worth of revenue
25 requirements. I want to, I want to make sure I understand that

1 this is, this is different; right? The number you're referring
2 to here includes both capacity and energy?

3 MR. HAFF: Yes. As does -- well the value of
4 deferral is calculated on a capacity payment, but the payment
5 made to a renewable energy provider would also include energy.

6 MR. ZAMBO: Right. But when you do value of
7 deferral, your cumulative present worth of revenue requirements
8 is only the capacity component.

9 MR. HAFF: Well --

10 MR. ZAMBO: And when you're comparing technologies,
11 when the utility is comparing technologies, coal or natural gas
12 or what have you, that cumulative present worth of revenue
13 requirements includes both fuel and capacity over the life,
14 projected life of the plant.

15 MR. HAFF: That's correct.

16 MR. ZAMBO: Okay. So they're not, they're not the
17 same thing.

18 MR. HAFF: Well, in my evaluation on the chart, and
19 Mr. Ballinger is going to look at value of deferral later, the
20 cumulative, the present value of a cumulative present worth
21 revenue requirement stream on just the capital and O&M part is
22 equal to the value of deferral, and he'll explain that in a few
23 moments.

24 MR. ZAMBO: Yeah. But what I want, what I want to
25 clarify here is that when a utility selects the next unit, they

1 do cumulative present worth revenue requirements that projects
2 the capital cost and the energy cost over the life of the
3 plant.

4 MR. HAFF: That's correct.

5 MR. ZAMBO: Okay. Now if their, if their projections
6 of energy costs over the life of the plant are wrong, what
7 happens?

8 MR. HAFF: Well, if they're wrong, if they're higher
9 or lower, the, the fuel or energy component of the utility's
10 plant is brought to us for review in the fuel adjustment
11 clause, as would be the energy payment of a renewable energy
12 provider. That's recovered through the fuel adjustment clause
13 as well.

14 MR. ZAMBO: But once that plant is approved and
15 built, there's really no recourse, is there? A utility has no
16 choice but to operate that plant at whatever the fuel cost
17 happens to be.

18 MR. HAFF: I don't know if they have no choice. I
19 mean, if they have other plants in place and then it becomes an
20 economic dispatch decision. But as far as keeping it in rate
21 base, unless they replace it with something else, then, yes, it
22 would stay in rate base.

23 MR. ZAMBO: Okay. Okay. You also, on that slide you
24 say that the cumulative present worth of revenue requirements
25 equals the least cost alternative to ratepayers. Does that

1 include the risk of fuel price, fuel prices varying from what
2 were projected over that 30-year time period?

3 MR. HAFF: No. The cumulative, the lowest cumulative
4 present worth revenue requirements is the mathematical
5 calculation of a generation expansion plan, including different
6 expansion plans with different alternatives. And when a choice
7 is made of which generating unit to build, it's the one that
8 provides the lowest cumulative present worth to that company
9 over the life of that plant.

10 MR. ZAMBO: But does it include, is there a component
11 added to the price, to the cumulative present worth, is there
12 some sort of an adjustment factor or something to recognize
13 that if I build a gas plant and I forecasted prices over 30
14 years and I know they're going to be wrong, are they likely to
15 be wrong high or wrong low? Is that risk accounted for?

16 MR. HAFF: There's no numerical value given to that
17 risk, if that's what you're asking.

18 MR. ZAMBO: So that risk is totally borne by the
19 customer.

20 MR. HAFF: I believe it's borne by the utility and
21 the customer, as would any wrong fuel price forecast that
22 results in a calculation of an energy payment.

23 MR. ZAMBO: But if the -- isn't fuel passed through
24 directly to the consumer?

25 MR. HAFF: Yes, it is, for a utility and for a

1 contract.

2 MR. ZAMBO: So how does the -- how does that -- how
3 is the utility absorbing that risk?

4 MR. HAFF: Well, their risk is that they would not --
5 you know, their risk, I guess, is in higher bills to the
6 customers. I mean, I don't know, you can call that some sort
7 of risk. I mean, there's a risk. It's passed through to the
8 customers financially. But so are contracts.

9 MR. ZAMBO: Well, it's passed through to the
10 customer, but the customer pays for it; correct?

11 MR. HAFF: Yes. Yes.

12 MR. ZAMBO: It doesn't come out of the utility's
13 bottom line.

14 MR. HAFF: No. The fuel -- no, it does not.

15 MR. ZAMBO: Okay. So when we're talking about --

16 CHAIRMAN EDGAR: Mr. Zambo, you're coming awfully
17 close to what appears to me to be cross as opposed to
18 clarification, so just keep that in mind, if you would.

19 MR. ZAMBO: Okay. Okay. One final question then.
20 On the, on the hypothetical coal unit on the in-service date,
21 what were the basis for the fuel price projections that you
22 used in that, in that chart?

23 MR. HAFF: It was the, it was the natural gas and
24 coal price forecasts that were provided by Florida
25 Power & Light in the supplemental data -- the response to the

1 staff's supplemental data request in the Ten-Year Site Plan
2 process.

3 MR. ZAMBO: Okay. That's all I have. Thank you.

4 CHAIRMAN EDGAR: Okay. Thank you.

5 Thank you, Mr. Haff.

6 Mr. Ballinger, I think we are now ready.

7 MR. BALLINGER: Good morning, Commissioners. I have
8 the enviable task of trying to explain value of deferral, which
9 in our rules is about five pages of exponential equations and
10 stuff like that, and hopefully I'll get it down to a couple of
11 slides.

12 The other thing in my presentation, I'll try to
13 explain the difference. And people brought up, they're
14 correct, renewable generators and utilities are different.
15 They have different business models, they have different needs,
16 different aspirations. And I'll try to explain those
17 differences and then follow up with why value of deferral works
18 and helps to solve that problem between the mismatch.

19 Value of deferral is not a new concept. It came
20 about in 1982 with an IEEE paper by a utility engineer by the
21 name of John Seelke. And the purpose back then was DSM and
22 load management was just coming into vogue and utilities were
23 struggling with how do I analyze the value of adding a load
24 management device or attic insulation or something like this?
25 And the whole purpose of doing conservation or DSM activities

1 it to avoid building a power plant. That's really what we're
2 trying to do is avoid building something. We're faced with
3 those decisions every day in our lives. We're going to need a
4 new roof in the future. Okay? I can spend some money now to
5 prolong the life of that thing, but eventually I'm going to
6 have to do a new roof. There's a value of deferring the need
7 for a new roof. And conservation is the same thing. We have a
8 value of deferring the need for something I have to do.

9 Utilities are basing a plant on a need because they
10 have an obligation to serve under statutory requirements.
11 Renewable generators do not have an obligation to serve. Their
12 business model is based on one of either an economic need,
13 desire to make a profit, which there's nothing wrong with that,
14 or another societal need such as disposable solid waste.
15 Nothing wrong with that either. But the two business models
16 don't quite mesh. They have different timing needs, they have
17 different economic drivers, if you will, to do things with.

18 Anyway, back to value of deferral. The paper was
19 written about how do I analyze the value of adding load
20 management to a system? Well, load management is very similar
21 to renewable generation. It comes onto the system in small
22 increments, 20, 30 megawatt blocks maybe, at various times and
23 it's not really in the control of the utility. But what it
24 does is it helps defer the need of having to build based on a
25 reliability need that Mr. Haff talked about.

1 We look at reserve margin and things of that nature.
2 When do I absolutely have to build something for reliability?
3 I don't want to build excess capacity. So that's the real
4 driver. That's why staff read that paper and said this is
5 pretty similar to how we can price cogeneration. It's having
6 the same purpose on the utility system to defer the need based
7 on reliability to have to construct a utility plant to meet an
8 obligation to serve. That's why we applied the value of
9 deferral method back in the early '80s, we've applied it for 20
10 some years, and it's consistent and it works.

11 I told you earlier that utility planning decisions,
12 or Mr. Haff, are long-term reliability needs and the economics
13 are evaluated over the life of the unit. But renewable
14 facilities have -- their needs are based on economic desires
15 again or societal needs.

16 They also -- and nothing to fault them, they want
17 variable contract terms. They may not want to sign a 30-year
18 contract for the life of the unit. They're not in the business
19 to -- they're not obligated to serve power. They have an
20 economic need. So they may only need a ten-year contract or
21 five-year contract to finance their proposal. And it varies
22 with the type of facility. What if it's an existing facility
23 that's already been built and they're just adding a generator
24 on the back end versus a whole brand new greenfield site that
25 may need a longer contract? So there's a lot of differences in

1 their business model.

2 Next slide, please. What it is is it creates two
3 mismatches or two problems, the first one being the mismatch
4 between the in-service date and the utility need. We've heard
5 in comments that the renewable generators want capacity
6 payments when they come online, that's their desire because
7 they have economic drivers. The utility has an obligation to
8 serve based on need, so the in-service date is the date of the
9 avoided unit, when I absolutely have to build something.

10 The second problem that's caused by the two different
11 business models is contract term. A utility is obligated to
12 serve ratepayers. If anybody shows up, they have to serve
13 them. They don't have a choice. So their economic decisions
14 are long-term life of the unit type of analysis.

15 Renewable generators don't have that. They look at
16 their business model, their debt coverage. Can I pay for this
17 contract, this expansion or unit in five years, ten years?
18 That may be all I need, and then I'll renegotiate a contract.
19 Or I may have gotten the value out of it and I go away.
20 Nothing wrong with that. There's just differences. Okay?
21 Value of deferral is a way to solve that disconnect, if you
22 will, between the two business models.

23 Next slide. Now I'm going to try to take those
24 exponential equations and put them to simple graphs. Mr. Haff
25 talked to you about revenue requirements. And these little

1 block diagrams are not based on real numbers, they're just to
2 give you the concept of what happens in a utility plan.

3 The first set would be if a utility added a plant
4 that has capital revenue requirements that depreciates over 30
5 years, as you see, and then in year 30 I still have an
6 obligation to serve, that plant is retired, I've got to replace
7 it. So I replace it with the exact same type of plant, but my
8 costs have gone up because of escalation. Again, I depreciate
9 that plant for 30 years. I have to add another plant to
10 replace it, and that goes on and on and on. We have this
11 ongoing obligation to serve. So you see there, there will be a
12 stream, if you will, of increasing capital additions as we go
13 through time.

14 Next slide. Now let's just assume that we defer that
15 unit a year. Okay? So you see now that first block has moved
16 out a year but the costs have increased, again, due to
17 escalation. And, again, we follow the same sequential series,
18 an infinite stream of units going out into the future. So that
19 is -- the difference between these two is the value of
20 deferral, the value of deferring the need for that plant.

21 Next slide. If you do this and you do it for 30
22 years and defer something 30 years, you will get a stream, if
23 you will, that looks like this, an ever-escalating cost.
24 Because as we go out in the future, escalation, inflation,
25 things of that nature cause capital costs to increase. So this

1 gives you the value. If I defer it one year, I get that first
2 little bar. If I defer it 30 years, I get all the way up to
3 that top bar on the right.

4 Next slide, please. What I've done here is to show
5 you based on the in-service date of 2012 of a unit, you see
6 this is a payment stream for capacity payments only based on
7 value of deferral. So a renewable generator or utility would
8 see no capacity payments up to 2012, they would jump up and
9 then escalate out for the life of the unit. The area under
10 that curve, present value, if you will, would be the area.
11 Think of it as a water balloon. If you put some water in a
12 balloon and you squeeze it at one end, it'll pop out, you
13 squeeze the other and it pops the other way, but it's the same
14 volume, it's the same present value. So it's the same pot of
15 dollars I have.

16 What our existing rules do is allow you to spread
17 those capacity payments in a variety of ways. Next slide,
18 please. For example, if a generator wants levelized payments,
19 they could spread them out, levelize those top ones, bring them
20 forward, if you will, bring some capital forward to help with
21 financing. You see a slight escalation there. That's because
22 we do not levelize O&M. That is still indexed with inflation
23 going up, where we've taken the capital, the fixed component of
24 the plant and levelized it.

25 Let's say that's not enough, they want to get them

1 early. We can give them early payments. Next slide, please.
2 We take the normal payments, we discount it back, we've taken
3 the same volume, the same present value, discounted it back to
4 today's dollars, to 2006. They can start getting capacity
5 payments today on out to the life of the unit, so it has a
6 36-year contract. Again, same present value, same impact to
7 the ratepayers.

8 Next slide, please. And we can even levelize the
9 early payments. And, again, you see it shifts, you can see how
10 the capacity payments shift, but the total volume, the total
11 present value remains the same. That means the ratepayers are
12 indifferent to whichever payment stream we choose. We leave
13 that to the choice of the renewable generator. They can pick
14 that in today's rules. It's been that way for 20 some years,
15 but those options have been there.

16 Next slide, please. As you can see, all four payment
17 streams have the same present value, so the ratepayer is
18 neutral. The levelized option assists renewables in financing
19 by giving them some capacity payments up-front today when
20 they're online, let's say. Or if their business model calls
21 for their plant to be online, let's say, in 2008, but the
22 utility need is not until 2012, they can get capacity payments
23 in 2008. The early option also does that; it brings it
24 forward.

25 Next slide, please. As you can see, the value of

1 deferral is a method based on sound economics of present value
2 analysis. It's a common practice that even the renewable
3 generators probably do when they're looking at -- let's say he
4 wants to build a new biomass facility. He might have Boiler A
5 and Boiler B, different vendors, and he's got Generator A and
6 Generator B, different vendors. He's going to combine all
7 those, look at his cost to operate and look at a present value
8 analysis of the two before he decides which to build. We're
9 using the same principles here of how to pay renewable
10 generators. It's based on utility cost.

11 The flexible payment options allow the renewable
12 generator to select different methods, different timing and
13 types that best suits their business model. And that's where,
14 again, I go back to that first slide. This solves the problem
15 of that disconnect.

16 Next slide, please. I'm sorry. Go back one. Let me
17 finish up. Again to summarize, utility planning and cost
18 recovery are long-term commitments based on reliability needs
19 and an obligation to serve. And payments based on revenue
20 requirements, if we go that route, require life of the
21 commitment to generate the benefits. As you saw from Mr. Haff
22 earlier, that if we want a coal unit, it's going to take some
23 years for the fuel savings to catch up. So if we go that route
24 with revenue requirements, we want to make sure we have
25 long-term contracts to get the benefits of fuel diversity.

1 Value of deferral strikes a balance between the disconnects
2 that we have between the two business models. And Ms. Harlow
3 now will come up and summarize the proposed rules and explain
4 to you how they are significant changes from the status quo
5 that we've had over the last 20 years. And I'll be happy to
6 take any questions now.

7 CHAIRMAN EDGAR: Commissioners? Commissioner Carter.

8 COMMISSIONER CARTER: Thank you, Madam Chairman.
9 Excellent presentation.

10 MR. BALLINGER: Thank you.

11 COMMISSIONER CARTER: It's got to be excellent
12 because I understood it.

13 MR. BALLINGER: I practiced on my wife.

14 COMMISSIONER CARTER: Keep doing that. Smart man.
15 (Laughter.)

16 As I understood your presentation, it seems to me
17 that it allows for symmetry, although they're divergent
18 perspectives in terms of different business models, but it does
19 allow for the symmetry. And the asymmetry is the value of
20 deferral. I mean, any time anyone or anybody is going to make
21 a purchase, they go through that purchase. Okay. What are the
22 benefits that I'm going to get out of making this purchase and
23 am I going to get any benefits over and above the cost of
24 making the purchase? The perspective of a vibrant renewable
25 industry along with a traditional electrical generation

1 industry, particular IOUs, is that I see, I see some symmetry
2 there. I mean, I may be making it more simplistic than it is,
3 but I understood exactly what you were saying. And I think
4 that the -- I particularly like the ratepayer neutrality
5 perspective on that because if it's indifferent to the
6 ratepayers, then it's a seamless process and we don't even see
7 it. I noted that some years ago there was discussion about the
8 ratepayer neutrality when we were talking about the phones, but
9 let's don't go down that road today.

10 MR. BALLINGER: I don't know phones.

11 COMMISSIONER CARTER: But I think that the
12 perspective is such to where the symmetry between these two
13 divergent perspectives is just like anything else. For an
14 example, government exists primarily to meet the health, safety
15 and welfare needs of our citizenry. But in order to do that,
16 we have to buy paper clips, pens, pads, we have to buy gas,
17 send people here and there. So the symmetry in these two
18 divergent business models lends itself to, to a process where I
19 can see on the one hand the IOUs saying, well, you know, we
20 could build the plant, but if it's cost beneficial for us not
21 to build the plant and we can get this power from reliable
22 renewable sources, then we'll do that and buy it at different
23 places along the grid at different points and all. From the
24 renewable standpoint I can see where they would say, you know,
25 we don't have the capacity for 1,200 megawatts, but we

1 certainly can do 30 megawatts and we can buy it. So I see, I
2 see a symmetry there.

3 And I'm just, as I'm thinking here about your
4 presentation, I just ask myself, and I'd ask all of us here
5 today, particularly those on the other side of the bench, is to
6 look at, you know, look at it as are we here for obfuscation or
7 are we here for action? And I think that's really what the
8 Legislature wants us to do, get beyond the rhetoric, get down
9 to the bottom line, because the people of Florida deserve
10 quality reliable energy. Secondly, the people of Florida
11 deserve to have us doing more than talking. It's time to walk
12 the walk. And the only way we're going to do this is recognize
13 that you don't get everything you want. You said you were
14 talking to your wife this morning, so I know that. I don't get
15 everything I want. But if we, if we just, you know, put the
16 rhetoric aside and look and say, okay, we're committed to
17 renewable energy, we are committed to a reliable electrical
18 grid in Florida. So, I mean, I don't see a conflict there.
19 So, I mean, that's just from my soapbox, Madam Chairman. Thank
20 you.

21 CHAIRMAN EDGAR: Thank you.

22 Commissioner Arriaga.

23 COMMISSIONER ARRIAGA: 100 percent in agreement with
24 Commissioner Carter. Well said.

25 Mr. Ballinger, help me clarify one of the points the

1 renewables have made before regarding value of deferral and
2 their possibility of meeting their financial needs. So look at
3 it from a banker's point of view. Do you think a bank would
4 finance an investment if they saw this possibility? Do you
5 think they're going to feel they're going to be able to get
6 their payments, their loan payments in time?

7 MR. BALLINGER: I think so. We're getting into the
8 next presenter, but I'll go ahead -- no, I'll answer your
9 question. I'll be glad to. Because I appreciate the chance to
10 --

11 COMMISSIONER ARRIAGA: How does value of deferral
12 account for financial needs of the renewables?

13 MR. BALLINGER: Right. Most, if not all, of the
14 existing renewables were financed on value of deferral
15 methodologies. They were done at a time though when coal units
16 were the standard offer and negotiated that, which had higher
17 fixed costs. So that helped them get financed.

18 I think the value of deferral will be financed. The
19 portfolio approach that has been proposed would put coal units
20 back out on the streets, if you will, for negotiations and as
21 part of the standard offers. That's the fixed payment stream
22 that a banker looks at to cover the debt.

23 The variable costs he doesn't want to hear about. He
24 doesn't want to take the fuel risk either. So he looks at the
25 fixed payments on the contract; is that going to cover the debt

1 that the renewable is looking to borrow? That's the bottom
2 line. So if we get coal units out there priced, even at value
3 of deferral, it'll put enough out there, in my opinion, to get
4 some financing done.

5 COMMISSIONER ARRIAGA: Thanks.

6 MR. HUNTER: Madam Chair?

7 CHAIRMAN EDGAR: Yes, sir.

8 MR. HUNTER: I'd like to speak on that issue
9 regarding the financeability of the project based on the fixed
10 capacity payments.

11 I've shown it to my financiers and they've looked
12 over the different options, and we elected to go for an avoided
13 coal plant unit based on the fact of the biomass technology,
14 high capital costs, low fuel costs. At the same time, however,
15 if you're looking at, for example, a combustion turbine plant,
16 you're looking at very, very minimal capacity payments and a
17 variable and unknown energy payment. Now this capacity
18 payment, the fixed amount is what this is essentially going to
19 get financed on because we need to be able to meet our debt
20 service and have a certain debt, you know, coverage ratio. So
21 there is something of an asymmetry if you're putting a
22 renewable plant against, against an avoided unit of CT or
23 combined cycle just based on we have high capacity payments, we
24 have to finance it, you know, to meet those high capacity
25 payments. This offers low capacity payments.

1 And I agree that, you know, the coal unit is an
2 appropriate way to finance, you know, to use as an avoided unit
3 for these plants, which leads into the idea of having a generic
4 coal unit as the avoided unit.

5 And I agree completely with Commissioner Carter.
6 It's time to walk the walk. Thank you.

7 MR. BALLINGER: Chairman --

8 CHAIRMAN EDGAR: Thank you.

9 Mr. Ballinger.

10 MR. BALLINGER: -- if I could clarify another
11 benefit, if you will, of the portfolio approach. I agree with
12 Mr. Hunter that a coal unit would help a biomass facility.
13 They have a high capital cost, low operating. They operate
14 more like a coal plant. However, a PV unit, solar, wind does
15 not operate like a coal unit. It operates very short periods
16 of time. The PV unit is sporadic. It can't serve a baseload,
17 if you will. They may offer a CT pricing for them. And the
18 portfolio approach does that, it puts units out there that may
19 better match the operating characteristics of the renewable and
20 provide for more diversity within the renewable sector.

21 CHAIRMAN EDGAR: Mr. Moyle.

22 MR. MOYLE: Thank you. I just had some follow-up
23 questions. Do you know, are all states compensating renewable
24 energy generators using this value of deferral approach?

25 MR. BALLINGER: I don't know.

1 MR. MOYLE: Have you guys looked into that?

2 MR. BALLINGER: I haven't, no.

3 MR. MOYLE: I don't -- Ms. Clark, on behalf of her
4 clients, filed some supplemental comments yesterday. I don't
5 know if you had a chance to take a look at them. Have you?

6 MR. BALLINGER: I got through about half of them last
7 night.

8 MR. MOYLE: Okay. You and I are in the same boat
9 there.

10 She said on Page 11 of her comments that the, the
11 value of deferral versus the revenue requirements debate was
12 raised and resolved more than 20 years ago. Is that -- do you
13 understand that to be factually accurate?

14 MR. BALLINGER: It was before I got here. I've been
15 here 22 years almost, but it was just before I got here. I'm
16 thankful. That is my understanding that it was argued. I've
17 read those transcripts and stuff like that.

18 MR. MOYLE: Okay. All right. And I wasn't here then
19 either. I, you know, this is complicated stuff and what not.

20 Do you know, do you know, are there other ways in
21 which to consider compensating renewables besides the value of
22 deferral approach or the revenue requirements approach?

23 MR. BALLINGER: I think that question has been out
24 there. And what we're discussing today is what's been brought
25 before us, those two approaches. There may be others, I mean.

1 MR. MOYLE: Yeah. And, again, I'm just trying to get
2 information because it seems to me that the Commission is being
3 asked to make some policy. And if they're going to make policy
4 to encourage renewable generation, you know, I would urge a
5 debate and a discussion to consider all the potential viable
6 approaches to fund renewables. You know, revenue requirements
7 and value of deferral seem to be two that have been previously
8 considered. There may be others. I don't know the answer to
9 the question.

10 MR. BALLINGER: There are others that are not at the
11 jurisdiction, if you will, of the Commission. You have tax
12 incentives, federal tax incentives that help finance
13 renewables, you have a secondary market called TRECs, tradeable
14 renewable energy credits, that help finance renewables and
15 promote them. We have green pricing programs in Florida, one
16 that purchases TRECs to promote renewables through the nation.
17 So there's a variety of other streams, maybe not just how do we
18 pay for power. There's other financing mechanisms out there.

19 MR. MOYLE: Are you aware of anything in Florida law
20 that precludes TRECs being considered by this Commission?

21 MR. BALLINGER: My personal opinion is the TREC is
22 the property of the renewable and he can sell it, trade it
23 however he wishes.

24 MR. MOYLE: Well, what I was trying to -- I know
25 you're not a lawyer, but is there anything that says,

1 Commission, you can't even consider this; you know, take this
2 off the table, don't even consider it as an idea?

3 MR. BALLINGER: I don't know how the idea of a TREC
4 would fall into the price of energy. They're two different
5 animals.

6 MR. MOYLE: I was just following up asking about ways
7 to pay renewable generators. You said tax credits, TREC's, and
8 I was just following up to see if, if you were aware if that
9 could be part of the conversation.

10 Let me move on a little bit. You had talked about a
11 roof analogy, and I think that's a good analogy. But you would
12 agree with me, would you not, that if a roofer comes out and
13 puts a roof on a house, that the roofer ought to be paid after
14 he completes his work in a timely fashion for the roof?

15 MR. BALLINGER: Yes.

16 MR. MOYLE: And to sort of walk through an example,
17 you know, there's this article on tides. Let's say somebody
18 comes up with a technology that they can use the Gulf Stream
19 for renewable energy. And they say, you know what, in 2007 I'm
20 going to be able to provide 100 megawatts of renewable energy
21 that will be baseload, the Gulf Stream is always running, and
22 I'd like to be paid for that when I provide the service. Are
23 you with me?

24 MR. BALLINGER: Uh-huh.

25 MR. MOYLE: If I understand sort of what's being

1 proposed now, if that generator showed up to Gulf and said, you
2 know, let's try to work this out, and wanted to try to get it
3 financed through a coal unit, would they be able to do that?

4 MR. BALLINGER: If under the proposed rules Gulf had
5 a coal unit in its plan, yes.

6 MR. MOYLE: Okay. And Ms. Clark filed something that
7 shows Gulf does haven't a coal unit in its plan, in its
8 proposed plan. Are you familiar with that?

9 MR. BALLINGER: Yes. That was based on last year's
10 Ten-Year Site Plan.

11 MR. MOYLE: So Gulf doesn't have a coal unit
12 presently. So with respect to trying to finance it plugged to
13 a coal unit, the new Gulf Stream guy wouldn't be able to do
14 that, would he?

15 MR. BALLINGER: Correct. But our current rules also
16 allow transmission access to every utility in the state. So,
17 for example, FP&L has a coal unit, TECO had a coal unit and so
18 did Progress, so they could work with one of those utilities.

19 MR. MOYLE: And they get charged for that wheeling
20 charge, would they not?

21 MR. BALLINGER: That's a FERC-regulated tariff, yes.

22 MR. MOYLE: Okay. The -- you know, you had made some
23 comments about financing. I don't know if you're the best
24 person to ask this question of. The gentlemen from Green Coast
25 had a couple of questions. But if I understood what you said,

1 you said back in this value of deferral approach that was done
2 20 years ago, that that was used to finance some things because
3 they were all pegged to coal units; correct?

4 MR. BALLINGER: No. What I said, it wasn't used
5 because they were. I'm saying that the existing units today,
6 most of them were financed under the value of deferral
7 methodology. It just so happened at that time there was a coal
8 unit out there pricing the value of deferral.

9 MR. MOYLE: Was it the statewide unit?

10 MR. BALLINGER: For some of them it was, yes.

11 MR. MOYLE: Okay. But in financing, you would agree
12 with me, would you not, that longer term contracts are better
13 to finance from a lender's perspective than short-term
14 contracts?

15 MR. BALLINGER: I don't know. As a banker, when you
16 get a longer term contract, there's that much more risk that
17 that person has to perform to pay his debt.

18 MR. MOYLE: That's a fair point.

19 The idea on the coal though, with respect to the
20 approach proposed by staff, if a, if a utility doesn't have
21 coal, then you've got to look for a utility that does and then
22 wheel it over there; is that right?

23 MR. BALLINGER: That's correct.

24 MR. MOYLE: Okay. So if the wheeling charges became
25 prohibitively expensive, then, you know, it could be, if coal

1 is not available, you may have a situation where people aren't
2 locating renewables in Gulf's territory.

3 MR. BALLINGER: And that's the same thing a utility
4 faces of where to locate a plant. You have transmission costs.
5 It's a fact of life. We'd love to locate every generating
6 plant right next to the load center. We can't do it. We have
7 to pay transmission. That's part of the economic decision that
8 we have to make to get the least-cost alternative for the
9 ratepayers.

10 Again, I agree with Commissioner Arriaga. We're kind
11 of bound with the balancing mandate from the Legislature.
12 Encourage renewables, but at the same time minimize cost to
13 ratepayers. And I think staff is trying to do rules that go
14 beyond, well beyond what we've had in the past, but maintain
15 that balance.

16 MR. MOYLE: Okay. The final question on the
17 hypothetical guy who is using the Gulfstream. If he were able
18 to do that in 2007 and was providing that energy, I mean, the
19 capacity would have value that would be relied upon by the
20 utility, correct?

21 MR. BALLINGER: If it was on-line in the year that
22 the utility needed, yes.

23 MR. MOYLE: Well, but it would have value on the year
24 it was being delivered, as well, would it not?

25 MR. BALLINGER: It would be excess capacity at that

1 time. I mean, it's a larger reserve margin.

2 MR. MOYLE: And that is of value, is it not?

3 MR. BALLINGER: Some. It is extra cost, too.

4 MR. MOYLE: We had the debate about the reserve
5 margin of 15 to 20 percent, and I think the utility said more
6 reserve margin is better than less.

7 MR. BALLINGER: Actually they were saying less is
8 better.

9 MR. MOYLE: Thank you, Tom, for the discussion.

10 CHAIRMAN EDGAR: Mr. Moyle, are you done?

11 MR. MOYLE: Yes, thanks.

12 CHAIRMAN EDGAR: Mr. Zambo was first; and then, Mr.
13 Wright, we will come back to you.

14 MR. ZAMBO: Mr. Ballinger, I just wanted to
15 clarify -- and, Madam Chairman, tell me when, I'm not sure
16 where that line is between --

17 CHAIRMAN EDGAR: I recognize that it is subjective,
18 but I'll let you know.

19 MR. ZAMBO: I'm looking at your chart, the value of
20 deferral where you have the two block diagrams, and it seems to
21 me like the longer you can defer a plant, the less cost there
22 is to the utility, is that what this is showing? For example,
23 you have got zero to 30 years, 30 to 60, 60 to 90. At the end
24 of the first 30-year period, the utility has to incur a big
25 cost because of inflation, and then 30 years later he has got

1 another large capital cost involved. So does that indicate or
2 does that mean that the longer the contract with the renewable
3 energy facility the lower the cost would be to the utility? I
4 mean, the longer you can put off this need to invest.

5 MR. BALLINGER: The more value there is to the
6 utility the longer you can put it off.

7 MR. ZAMBO: So why would you limit the term of a
8 contract to the useful life of the avoided unit? Why wouldn't
9 you let it go beyond that so you could put it off even further
10 into the future?

11 MR. BALLINGER: Theoretically, you could. I mean, we
12 are trying to keep it somewhat in bounds of reality. I haven't
13 seen somebody asking for an 80-year contract.

14 MR. ZAMBO: But we seem to be arguing about whether
15 we can have more than ten or not. I mean, that's one of the
16 issues here is whether we can have a contract greater than ten.
17 It seems like if you are saying you need to leave that to the
18 utility, then the utility, if it chooses something less than
19 the useful life, they're actually, it's going to cost their
20 customers money.

21 MR. BALLINGER: You have jumped ahead a little bit.
22 The statute required a minimum of ten years, it did not address
23 maximum or anything like that. Our existing rules are silent
24 on who selects the term, let me make that very clear. There
25 was discussion, and recent history has been the utility has set

1 that term, and shortened it to five years, basically. Staff is
2 now proposing that we think the renewable should be able to
3 select the term up to the life of the unit. So we think that
4 is an option that should be the renewable generator. I think
5 it will go a long way in helping financing. We have listened
6 to that, the term is something. And they have different
7 business models. They are going to have different terms, and
8 let them pick it, up to the life of the unit. So we're trying
9 to keep some bounds on it to make it somewhat reality.

10 MR. ZAMBO: But even going beyond the life of the
11 unit would be beneficial, right?

12 MR. BALLINGER: Theoretically, yes.

13 MR. ZAMBO: I want to ask you one more question. Mr.
14 Moyle referred to the IOUs' supplemental testimony. Do you
15 have that handy?

16 MR. BALLINGER: I can get it.

17 MR. ZAMBO: Well, I tell you what, I will just defer
18 that to a later point.

19 MR. BALLINGER: I've got it. I have it, Mr. Zambo.

20 MR. ZAMBO: What strikes me about this is if you look
21 at the next to the last page, there's a chart that -- a table,
22 I guess. It's revenue requirements versus value of deferral
23 methodology. And you've talked about how the value of deferral
24 strikes this balance and it addresses the interests of the
25 utility and the ratepayers and the renewable energy facility,

1 and yet when I look at this chart, I look at the column that
2 says total revenue requirements. Now, that's what the utility
3 expects to get if it builds a power plant. That's what anybody
4 would expect to get if they made a large capital investment.
5 But what the value of deferral gives us is in the first year it
6 is less than half of what the actual carrying charges are. And
7 I don't understand how that addresses everybody's -- how that
8 addresses and balances the interests?

9 MR. BALLINGER: I think it comes down to being able
10 to select the term of contract. If you do revenue requirements
11 but you only pick a ten-year contract, you've gained all the
12 benefits of revenue requirements those first ten years of very
13 highly payments and not the last 20 years of lower payments to
14 get the benefits. That's why value of deferral works on that
15 aspect of the disconnect of allowing people to have flexible
16 terms in contracts.

17 MR. ZAMBO: But if someone wanted to sign a contract
18 for the full life of the avoided unit, are you saying then the
19 revenue requirements would be the appropriate payment
20 methodology?

21 MR. BALLINGER: I'm not saying it's appropriate.
22 Value of deferral allows and equates to the same present value.
23 Our current rules allow that if somebody wants to do the life
24 of the unit. The present value to ratepayers will do that.

25 MR. ZAMBO: But from a financing standpoint, again,

1 I'm just trying to clarify. If I'm financing something, I have
2 evidence here from this column that says total revenue
3 requirement. I have evidence that that is what the utility
4 needs to finance the power plant, and yet you're telling me
5 that you believe it can be financed under the column value of
6 deferral, which your payments start out half as much as they
7 would under the revenue requirements.

8 MR. BALLINGER: Correct, because a renewable may only
9 want a 10-year contract or 15-year contract.

10 MR. ZAMBO: Assuming that he wants --

11 MR. BALLINGER: Then you could look at structuring
12 one under revenue requirements under a negotiated contract.
13 Remember, again, we're talking about standard offers. We're
14 trying to put one that is on the table as a starting point, if
15 you will, as a fallback position.

16 MR. ZAMBO: One other point. You had mentioned
17 earlier that value of deferral is originally conceived for
18 purposes of determining the value of conservation programs,
19 right?

20 MR. BALLINGER: Correct.

21 MR. ZAMBO: Now, conservation programs don't require
22 huge capital outlays up front, do they, like a hot water heater
23 timer?

24 MR. BALLINGER: They are different because our
25 programs are partial financed through utility incentives which

1 all ratepayers pay and partially through the participant, so it
2 is not a direct, you know, and you look also at participant
3 tests. If a measure, let's say, has a very short payback, a
4 utility won't offer an incentive for that because the customer
5 should be doing it anyway. And they have found that it is not
6 a wise thing to take other ratepayer money to incent that
7 customer to do that. So there is a little bit of difference.
8 I was talking more from the reliability standpoint of how they
9 impact the system. They are very similar.

10 MR. ZAMBO: But what I'm trying to understand is if
11 it was designed for conservation programs, which in some cases
12 are actually subsidized by the utility, the utility comes to a
13 customer and says, I will pay you \$100 to put window tinting on
14 your windows to cut down your heat load, and the out-of-pocket
15 cost to the customers isn't a real large amount anyway, but the
16 utility is willing to subsidize that. To compare that to a
17 situation where somebody is paying maybe \$2,000 a kW to install
18 a power plant seems like there is a disconnect.

19 MR. BALLINGER: There is a disconnect, and now I
20 understand the question. And the disconnect comes back to
21 this. We're looking at the ratepayer. They are going to pay
22 what the utility would pay otherwise. Conservation and
23 renewable generation are alternatives to a utility building a
24 plant. So you want to look at the cost of that plant. If I
25 can do something a little cheaper, I'll do it. That is the

1 difference. We're not looking at what does it take to finance
2 a renewable and do that, we're looking at what does it take a
3 utility to provide service. And then that cost, if it can
4 cause the financing of a renewable and get it, great. If it's
5 not, the utility should build it. That is the least cost
6 alternative.

7 MR. ZAMBO: So you equate renewable energy with
8 conservation?

9 MR. BALLINGER: They're very similar. They have the
10 same impact on the system. And I think they are both
11 identified under FEECA as conservation efforts.

12 MR. ZAMBO: One last question. Wouldn't a renewable
13 energy facility typically offset a lot more energy than a
14 conservation program would?

15 MR. BALLINGER: Yes and no; it depends on the
16 conservation program. Attic insulation is 24/7 saving energy.
17 Load management is not. So they are all over the board.

18 MR. ZAMBO: Okay. That's all I have. Thank you.

19 CHAIRMAN EDGAR: Commissioner Arriaga.

20 COMMISSIONER ARRIAGA: Mr. Ballinger, like
21 Commissioner Carter, I also understand the concept and I like
22 it. And I haven't spoken to my wife about this today, so --

23 MR. BALLINGER: Don't do it.

24 COMMISSIONER ARRIAGA: I do understand the concept
25 and it's attractive. But why are you -- in implementing this,

1 why are you proposing that you leave so many ifs to negotiation
2 when you know that up to today we have not been able to get
3 consensus from the two confronting parties here?

4 MR. BALLINGER: I'm a firm believer in the market
5 and --

6 COMMISSIONER ARRIAGA: May I stop up right there,
7 please, because I heard Mr. Trapp say the same thing. But we
8 are not talking about -- we're talking with technical
9 monopolies here. This is not free market.

10 MR. BALLINGER: I understand. But each project is
11 going to be different. For example, you have an existing
12 municipal solid waste, it's in the ground, it has been financed
13 already. Their contract is going to end in a couple of years.
14 They are looking at just re-upping, selling the same power.
15 That project has been financed. So we don't have the same
16 problem as a new biomass facility, let's say, Mr. Hunter trying
17 to get a greenfield site built and constructed actually has to
18 go and borrow money. You may have a waste-to-energy facility
19 that wants to expand slight megawatts. The capital costs are
20 lower than a brand new facility. So you have all of these
21 different factors affecting everything.

22 You have location. You have, again, on the
23 waste-to-energy, I hate to harp on it, but that is the bulk of
24 what we have of renewables is waste-to-energy. I think there
25 is about 500 megawatts of firm contract, about 300 of that,

1 350 is municipal solid waste facilities. So that's our
2 renewables, okay? I think it is about 500 megawatts firm under
3 contract that currently sell to utilities, and of that, that's
4 all renewables, that's about 500 megawatts, of that about 300
5 or 350 is municipal solid waste. Which is it, Mike? 350.

6 COMMISSIONER CARTER: (Inaudible. Microphone off.)

7 MR. BALLINGER: It would be some biomass, a little
8 bit of landfill gas, very small hydro.

9 COMMISSIONER CARTER: (Inaudible. Microphone off.)

10 MR. BALLINGER: Okay. 55 of hydro and then some
11 waste heat from the phosphate mines.

12 COMMISSIONER CARTER: I'm just trying to get an
13 answer to a question I asked earlier. You said it is 55 for
14 hydro. What was it for biomass?

15 MR. HAFF: Commissioner, the remainder after
16 approximately 350 of solid waste is approximately 55 of hydro,
17 and the remainder is biomass and landfill gas.

18 COMMISSIONER CARTER: Thank you.

19 MR. BALLINGER: And we will have those numbers for
20 you in the Ten-Year Site Plan report that you will see in
21 December.

22 COMMISSIONER CARTER: Thank you.

23 Thank you, Madam Chairman.

24 CHAIRMAN EDGAR: Mr. Wright.

25 MR. WRIGHT: Thank you, Madam Chairman. I just had a

1 couple of questions that are generally follow-ons to
2 Commissioner Arriaga's questions, and also a little bit of a
3 follow-on to the discussion that Mr. Zambo had with
4 Mr. Ballinger.

5 Mr. Ballinger, you and I have discussed the issue of
6 payment streams many times over the years, I think. In your
7 second slide, I believe -- you don't need to put it up there --
8 you identified two problems with revenue requirements type
9 approach. One is that you can have a mismatch of the
10 in-service date and a mismatch of the term of the contract,
11 vis-a-vis the life of the unit.

12 Now, we'd agree, I'm sure, that if the renewable
13 energy producer or QF were willing to sign a contract that had
14 an in-service date equal to the in-service date of the avoided
15 unit, and a term equal to the life of the avoided unit, that
16 the present worth revenue requirement -- that the revenue
17 requirements payment methodology, starts high, diminishes,
18 would be exactly what the utility would otherwise incur?

19 MR. BALLINGER: Correct.

20 MR. WRIGHT: And that the present value, the CPWRRs
21 of that payment stream would also be equal to the VOD payment
22 stream?

23 MR. BALLINGER: Correct.

24 MR. WRIGHT: Okay. I really brought that out to try
25 to really clarify for you all what the issue is as to revenue

1 requirements versus the VOD, value of deferral method. And you
2 mentioned in response to a comment by Mr. Zambo, that if a
3 renewable producer or QF wanted a revenue requirement stream
4 under those circumstance, they could negotiate. And the only
5 question I would ask is would there be anything wrong, is there
6 anything technically wrong with, I mean, it solves your
7 problem, was there anything technically wrong with allowing a
8 renewable energy producer to sign a revenue requirements based
9 contract if the contract by its own terms solved the problems
10 you identified as to in-service date and term?

11 MR. BALLINGER: I don't think so. And in that
12 negotiated contract you would probably see issues addressed
13 like dispatchability, security deposits, and that's where they
14 need to be. That's where they need to be negotiated.

15 MR. WRIGHT: My question, and I apologize, I left a
16 couple of words out, is there anything wrong with allowing a
17 renewable producer to sign a standard offer contract as long as
18 it solved your problems? A standard offer contract using the
19 revenue requirements payment methodology as long as it
20 addressed the two problems of in-service date and term?

21 MR. BALLINGER: Theoretically, yes, I think that
22 would be possible.

23 MR. WRIGHT: I think you answered the question
24 opposite. Did you mean --

25 CHAIRMAN EDGAR: Let's try again. I got turned

1 around.

2 MR. WRIGHT: That's what I thought. Did you agree --
3 I suggested that it should be okay for a renewable energy
4 producer, or a QF for that matter, to execute a standard offer
5 contract using the revenue requirements payment methodology as
6 long as the in-service date were the same as the in-service
7 date of the avoided unit and as long as the term was equal to
8 the projected life of the avoided unit. And do you agree that
9 that would be appropriate?

10 MR. BALLINGER: I see Mr. Trapp wanting to jump in
11 here, too, I think.

12 MR. TRAPP: If I can be part of the discussion here.
13 Tom has identified two of the areas of concern that's addressed
14 by the present rule, I just want to remind that the current
15 rule also addresses the risks associated with longevity
16 associated with a 30-year contract. And as it stands now,
17 there are two requirements in the rule that I will remind you
18 of. One is that the payments to a cogenerator be constrained
19 by the total of the annual -- the sum of the annual values of
20 deferral during the term of the deferral. But then there is a
21 second requirement in the rule that says that in any year where
22 a payment to a QF exceeds that year's value of deferral, the
23 issue of security has to be addressed. And my understanding of
24 the philosophy of that is that basically the difference between
25 that year's value of deferral and the actual payment that's

1 made to a QF is a loan. It's a loan. What are you doing to
2 secure the loan?

3 As you pay value of deferral, because you are paying
4 the money up front and it declines over time, in the business
5 world contracts can be breached. Contracts are breached. So
6 the Commission was concerned in establishing that policy that
7 there be security there to secure the contract in the latter
8 years when the revenue requirements stream had declined to a
9 point where it was no longer attractive for the QF to worry
10 about it, but the value of deferral hadn't been paid up yet.
11 If you understand that, it's basically a banking financial type
12 of concept, protection that is put in the rule.

13 So that would be the third concern that I would have
14 relative to the existing rule about your example. Otherwise,
15 yes, we agree with you, Schef. Revenue requirements is a fine
16 thing to put out there in a standard offer if you address
17 in-service date matching, life of unit matching, and security
18 concerns.

19 MR. WRIGHT: If I may, I would like to respond
20 briefly. I don't disagree with that, and I'm glad we agree so
21 far. I think that a -- personally, I'm just suggesting to you
22 that I think a standard offer contract could be crafted that
23 appropriately addressed security. And one of the other facts
24 is that after the cross point between the value of deferral
25 payment stream and the revenue requirement payment stream,

1 every year thereafter the QF will be paying less than the value
2 of deferral.

3 I have some doubts about overlaying the value of
4 deferral excess surplus restriction on a revenue requirements
5 methodology. I personally think that it's completely
6 satisfactory that the revenue requirements methodology produces
7 exactly the same revenue requirements and payment stream that
8 the utility's customers would otherwise be paying. And we also
9 have in the contracts, and we wouldn't have any objection at
10 all to the contracts including security provisions and other
11 appropriate provisions, not unduly onerous, but appropriate
12 provisions to ensure against what was the real concern back in
13 1983. I was on staff. I didn't work on the docket, but I was
14 around the issue and Bob and Tom and I have discussed this many
15 times. The real concern, and it was not -- at that time anyway
16 not an unreasonable concern, was that QFs would come in, take
17 the revenue requirements payment stream for 12 years, kept most
18 of the money and walk away. And I don't think that history
19 bears out that that is really a legitimate concern based on the
20 performance of the independent power industry. But having said
21 that, current contracts even with the VOD methodology have
22 completion security and have performance security requirements
23 already in them, and there's nothing wrong with having such in
24 the standard offers. Thank you. That was all I had, and I
25 appreciate it.

1 CHAIRMAN EDGAR: Ms. Clark.

2 MS. CLARK: Yes, Madam Chairman.

3 I would point out that the issue of the security for
4 the revenue requirement payment is that it assures that the
5 customers will receive the value of what they have paid for.
6 You would have to substantially increase your security
7 requirements under the revenue requirements philosophy. The
8 utilities are regulated by you all, they have an obligation to
9 serve, and they have to be there for the life of the unit. The
10 only way you can assure, and even then there is no assurance,
11 there is a monetary penalty if they are not there. The only
12 way you can assure the same performance on the part of the
13 renewable generators is through your contracts. And that's why
14 the rule has been done that way, and that is why, as Mr. Trapp
15 has said, there are the need for these security requirements if
16 you are going to have these longer term contracts with
17 renewables.

18 I would also tell you that regarding the revenue
19 requirements, that's an issue that was taken up extensively
20 when the value of deferral was considered. It has since been
21 taken up, I think it was in 2002 or 2003, those same arguments
22 were advanced and appropriately rejected. The other thing I
23 would say is this is a standard offer contract. The negotiated
24 contract could be used to vary the payment streams in a manner
25 that would be appropriate for the particular type of renewable

1 generator and at the same time protect customers. It would be
2 inappropriate to do that in a standard offer contract.

3 CHAIRMAN EDGAR: Commissioner Carter.

4 COMMISSIONER CARTER: Thank you, Madam Chairman. If
5 I may be recognized for a couple of questions. One to
6 Mr. Wright and one to Mr. Trapp, in that order.

7 CHAIRMAN EDGAR: Okay.

8 COMMISSIONER CARTER: Mr. Wright, you looked at the
9 rule as it is currently drafted?

10 MR. WRIGHT: Yes, sir.

11 CHAIRMAN EDGAR: I was really intrigued by what you
12 had to say about your perspective on the standard offer
13 contract. As drafted on this rule, where do you see that we
14 would have to change this rule to make the recommendation that
15 you say in terms of a standard offer contract being able to
16 meet those terms and conditions such that it would apply and
17 cover the concerns raised by the parties?

18 MR. WRIGHT: Madam Chairman, Commissioner Carter, to
19 be clear, that is not -- obviously you have read our comments.
20 That is not one of our key issues. It came up in the
21 conversation. It is part of what has been put on the table by
22 some of my brethren on the renewable energy side. And I felt
23 that it was important to illustrate the equivalence of the
24 methodologies. And, for your edification, I think the answer
25 is that you would put it in 25-17.0832(4) somewhere as to the

1 choice of capacity payments, which I think would fall -- I
2 think it falls somewhere within -- gee, what is it? I'm not
3 sure. With the renumbering and some sections not being
4 specifically identified, it's somewhere in there.

5 COMMISSIONER CARTER: Maybe 4C or in that
6 neighborhood?

7 MR. WRIGHT: I think it actually winds up in -- I
8 think it actually winds up in I with the renumbering, but I'm
9 not positive.

10 COMMISSIONER CARTER: Well, I won't hold you to that,
11 but -- thank you, Mr. Wright.

12 Madam Chairman.

13 Mr. Trapp, you understood where I was going on this
14 question based upon Mr. Wright's comments to Mr. Ballinger?

15 MR. TRAPP: Yes, sir.

16 COMMISSIONER CARTER: What is your take on that? I
17 mean, it just seems to me that -- it seems like five blind men
18 trying to describe what an elephant looks like and they are all
19 at different portions -- I mean, different locations of the
20 elephant. What Mr. Wright says sounds so simple to where -- I
21 mean, you understand where I am coming from here?

22 MR. TRAPP: Yes, sir.

23 COMMISSIONER CARTER: What impact would that have on
24 our rule as it is drafted?

25 MR. TRAPP: You know, quite honestly, I think the

1 rule already addresses it. I think it's already there. I
2 think this is a tariff issue. I think if you want a standard
3 offer contract from the utilities that is based on a revenue
4 requirement stream, we can get you one. But I think it is best
5 done as a tariff standard offer. It's allowed by the rules.
6 The rules allow you to structure the payment stream any way you
7 want to as long as it conforms to the principles of don't pay
8 anymore than total value of deferral and pay attention to how
9 you're paying the dollars with respect to security. It's a
10 tariff issue. I can have it for you tomorrow. No big deal.

11 COMMISSIONER CARTER: Thank you, Mr. Trapp.

12 Thank you, Madam Chairman.

13 CHAIRMAN EDGAR: Mr. Zambo.

14 MR. ZAMBO: At my peril I would make a comment that I
15 believe it is still true, there was at one time a statutory
16 provision that exempts municipal solid waste facilities from
17 the security requirement of excess payments. They are still
18 liable for the payments, but they aren't required to post
19 security. So the issue has been addressed, it has been -- I
20 think it is covered for facilities that are owned and operated
21 by or on behalf of a local government. The recognition being
22 that the full faith and credit of the local government will be
23 there to pay any outstanding liability.

24 CHAIRMAN EDGAR: Ms. Clark.

25 MS. CLARK: Yes, I think Mr. Zambo may be correct,

1 that that does happen for a municipally-owned one. But as he
2 pointed out, they are on the hook for payments in excess of the
3 value received. The other thing that I would point out is -- I
4 just lost my train of thought thinking about what I wanted to
5 say to him. I will think of it in a minute.

6 CHAIRMAN EDGAR: We'll come back.

7 MS. CLARK: Okay.

8 CHAIRMAN EDGAR: Mr. Wright. No. I think it's time
9 to take five. Up here we need to take five. A short break and
10 we will be back.

11 (Recess.)

12 CHAIRMAN EDGAR: We'll go back on the record. And,
13 first, Ms. Clark, I think we left off when you were going to
14 make a further comment.

15 MS. CLARK: Yes. I was trying to remember what my
16 comment was. There are a couple of things I want to say with
17 respect to the proposal of the revenue requirements. First of
18 all, Mr. Wright has suggested that, you know, renewables have
19 proved themselves to be -- rather, QFs have proved themselves
20 to be reliable. It reminds me of what you hear when you buy
21 stocks, past performance is no guarantee of future performance.
22 That is why you have to cover that in contracts. QFs may find
23 themselves in a situation where they have gotten the high
24 payments up front, they become lower through the life of that
25 contract, and they start losing money. They have the incentive

1 to default at that point. And QFs have faulted.

2 The other thing is revenue requirements would work
3 only if the size of the unit that is being contracted for is
4 the same size as the unit being deferred and it is for the same
5 term. Otherwise, the unit is not avoided, it is only deferred.
6 That is why it is not appropriate to use that methodology in a
7 standard contract where you are going to have varying terms and
8 varying size of megawatts being offered. Thank you.

9 CHAIRMAN EDGAR: Okay. In the interest of trying to
10 accommodate a variety of scheduling requirements and perhaps
11 even some hunger pangs, I'm going to propose that for the next
12 little bit we do it a little built differently and see how that
13 works. And, so I'm going to recognize Ms. Harlow in just a
14 moment to give her presentation.

15 What I would like to request, and like I said, we
16 will see how this works, because I do want discussion and I do
17 encourage it. We will ask her to do her presentation. I would
18 like to ask you to hold your questions. After Ms. Harlow's
19 presentation, then we will hear from the next speaker on the
20 agenda, Ms. Glickman. Then we will break for lunch and when we
21 come back from the lunch break we will take up any questions to
22 Ms. Harlow or on her presentation.

23 Ms. Harlow.

24 MS. HARLOW: Thank you. I will try and be brief.

25 Much of this has been covered earlier today in the questions

1 and by my co-workers here. My role today is to discuss the
2 existing rule, the statute, and how the proposed rule meets the
3 intent, in our opinion, of the statute, and also how we think
4 it moves us forward from status quo with, in our opinion,
5 significant opportunities for renewables.

6 The first point in the statute is that these
7 contracts be continuously offered. That investor-owned
8 utilities continuously offer a purchased contract to producers
9 of renewable energy. Under our current rule, these contracts
10 are issued on an as-needed basis. We typically see them soon
11 before a utility is going to issue a request for proposals on a
12 planned unit that's subject to a need determination. The
13 contracts would have an open -- what is called an open
14 solicitation period. These are typically, in our recent past,
15 two to three weeks, that is when the contract is open. They
16 are filed before the Commission, the Commission approves them
17 or disapproves them, and if they are approved you have this
18 open solicitation period. What this means is the renewable or
19 qualifying facility has a very short period of time to jump on
20 this opportunity. They have to know what type of contract they
21 are interested in and be ready to sign on the dotted line
22 within a very short period of time. And this introduces a lot
23 of uncertainty into their planning process.

24 Under the proposed revisions the staff has proposed a
25 methodology for new contracts to be filed that we think

1 introduces much more certainty for the renewables. On every
2 April 1st, concurrent with the filing of the ten-year site
3 plans, we would have new contracts filed. Those contracts
4 would be based on a portfolio of units, and they would be --
5 the units would be established according to the utility's plans
6 on a going-forward basis. There is also a process in the rule
7 for when the contracts would close.

8 And in order to meet the concerns of the renewables,
9 we made a change in the proposed rules to require utilities to
10 file a new contract before they close an existing contract. As
11 I was saying, we believe this offers new opportunities to
12 renewables. First of all, the contract is available on a
13 continuous basis. This is per the statute, and the staff also
14 believes this is a great idea. It increases certainty. You
15 don't have that speed of reaction need by the renewables that
16 we had in the past.

17 Also, if you combine this with the portfolio approach
18 that the staff is suggest, you see much more information
19 available in these contracts that are open continuously. The
20 renewables would have information on a continuous basis on the
21 utility's avoided costs, and that would promote, in our
22 opinion, negotiations.

23 Moving on to the next slide, the statute also states
24 that the payment provisions should be based upon a utility's
25 full avoided costs. Avoided costs are defined under the

1 current rule as the utility's next avoided unit in their plan.
2 In the recent past what we have seen is these were natural gas
3 units. They were either combustion turbines which, as Mike
4 Haff discussed, have low capacity payments and high fuel, but
5 that fuel is difficult to predict. And also combined cycle
6 units, which have a higher capacity payment and lower fuel on a
7 per kWh basis.

8 What the staff is suggesting as we have discussed
9 previously today is the portfolio methodology. Under this
10 methodology, the utility files a contract based on each
11 technology type in their upcoming site plan. So what you would
12 see, for example, if you had a utility that had five units in
13 their ten years, they had two combustion turbines, they had two
14 combined cycle, and they have one pulverized coal unit. We
15 would see three contracts filed based on the first combustion
16 turbine, the first combined cycle, and that pulverized coal
17 unit.

18 This gives renewables an opportunity to find
19 contracts that have various pricing and timing and operating
20 characteristics. We think this expands the opportunities for
21 renewables. It might meet different timing needs for when they
22 plan to put their plans in, and also different renewables have
23 different operating characteristics, and in our opinion it is
24 more likely that various types of renewables, some of them are
25 perhaps not even developed yet, so we can't see all of those

1 answers, that these contracts, a portfolio of contracts would
2 be more likely to meet the operating characteristics and timing
3 needs of various types of renewables.

4 The statute also states that the contracts should
5 provide a minimum contract term of ten years, a contract term
6 of at least ten years. The current rules have a minimum term
7 of five years up to the life of the unit. What we have seen in
8 recent contracts is that the contract term was five years. The
9 staff has provided language in the proposed rule that the
10 minimum term is ten up to the life of the unit. As Tom said,
11 the rule is currently silent on who selects that term, and Tom
12 also discussed that the staff is prepared to propose that the
13 renewables should have the option of selecting that term.

14 Of course, what we are seeing here is we have various
15 renewable parties and they are not all of one mind, but there
16 is some agreement across the parties on various issues. But we
17 have seen a theme in the comments over the past year as we have
18 worked through this process, so staff wanted to discuss some of
19 the themes of the concerns that the renewables have and address
20 how we think the rule meets those needs.

21 The first question was will subscription limits as we
22 have proposed hamper the development of renewable generators?
23 Staff's opinion is no, we don't believe the subscription limit
24 set equal to the size of the unit will hamper development. Why
25 not? Well, first of all, in the recent past we have seen

1 subscription limits as little as five megawatts. The highest
2 we have seen recently is 20 megawatts. If you have a
3 subscription limit of that size, Mr. Hunter's biomass plant,
4 which is approximately 42 megawatts gross, could not sign that
5 contract for his new unit he's proposing.

6 Under the current proposed rule, if you set that
7 subscription limit equal to the size of the unit, that contract
8 would be available for Mr. Hunter's proposed plant. He could
9 sign on the dotted line for his entire capacity. Now let's
10 just put this number in perspective. Again, I said that we had
11 recent contracts at just five megawatts. Well, another number
12 to look at is that our utilities currently have 500 megawatts
13 approximately, as Tom also discussed, under firm contract with
14 renewables. Well, if you look at when the Commission initially
15 proposed this methodology for specific contracts, we would have
16 opened up 5,000 megawatts of contracts. That is ten times what
17 is currently under signature firm contract with our utilities,
18 and we think that that is a significant opportunity for these
19 facilities. We do not feel it's a status quo.

20 Also, going back to the portfolio approach, excuse
21 me. Another number to put this in perspective is biomass
22 plants. We have recently seen a lot of development, talk of
23 development of biomass plants in the state. How big are these
24 plants? Tallahassee just signed a contract for 30 megawatts.
25 Mr. Hunter has a plant with 42 megawatts gross he's discussing.

1 The Progress contract that the Commissioners recently signed
2 that uses e-grass as a fuel and turns that e-grass into a
3 synthetic oil is 130 megawatts. So let's compare that number
4 to our subscription limit we have. Five thousand megawatts
5 were on the table a year ago.

6 Next slide. Another theme we have seen and we think
7 this is an important theme, will the proposed rule allow
8 renewable generators to obtain financing. We think that the
9 change that we made that Mr. Ballinger discussed that allows
10 the renewable to select the term of the contract will go a long
11 way toward meeting their financing needs. This slide contains
12 language that the staff would propose to implement this change.
13 It says the qualifying facility shall have the option of
14 selecting the contract term between ten years and the life of
15 the avoided unit. I would also like to say that Mr. Wright
16 gave us specific language in his comments and the staff is
17 indifferent between the two languages and we appreciate his
18 providing us with that specific language. Another issue on
19 financing. Value of deferral, as Tom discussed, allows the
20 renewable to begin receiving early capacity payments. We think
21 this could help with financing needs.

22 And, finally, Mr. Hunter has suggested in his
23 comments at the past workshop that there be an option for a
24 fixed fuel payment. Not just fixed capacity, but also fixed
25 fuel. The staff has had extensive discussions on whether we

1 felt like this belonged in the rule or not. We understand Mr.
2 Hunter's concerns. We considered shifting a portion of that
3 variable fuel price into a fixed payment that the utility could
4 get, and the result of our discussions were it really depends
5 on which renewable you're talking about. What percentage of
6 that fuel payment would have to be fixed in order for them to
7 get financing, and it is very difficult, in our opinion, to set
8 up a standard offer contract that would give you that
9 flexibility to do that to meet the needs of all renewables.
10 And because of that, we believe that that leads more to a
11 negotiated contract.

12 Finally, another common theme we heard was should
13 avoided costs be based on a single statewide avoided unit. Our
14 opinion is no. We feel that the Commission has been over this
15 in the past, there were difficulties with this methodology. We
16 don't feel it appropriately represents avoided costs for each
17 utility.

18 Finally, on a more positive note, we believe the
19 portfolio approach gives more types of renewables more
20 flexibility. If you have a statewide unit, that's a single
21 technology type, and that is the same problem that the staff
22 felt was there with a single unit approach.

23 And, finally, it's our opinion that under the current
24 rules, even though we don't have a statewide unit, according to
25 Mr. Zambo comments, set up the way Mr. Zambo has defined

1 statewide avoided unit, we do have access to all of these
2 contracts for renewables all over the state as long as they pay
3 the transmission cost under the FERC's rules.

4 And I believe that concludes my comments. I would
5 like to let the other speakers know that as you come up, you
6 don't need to stand at the podium. If you would be more
7 comfortable, stay where you are, or you can come up, however
8 you wish.

9 CHAIRMAN EDGAR: Thank you, Ms. Harlow.

10 As I said, I'm going to ask that everybody hold their
11 questions. I also ask that you remember your questions,
12 because I expect that there will be some, and I'm hoping that
13 there will be some. So we will come back to that. But, again,
14 in the interest of time and as to other scheduling requirements
15 we will do that after the break.

16 Ms. Harlow, you are going to be here after lunch,
17 right?

18 MS. HARLOW: (Indicating yes.)

19 CHAIRMAN EDGAR: Thank you.

20 Ms. Glickman, you are recognized.

21 MS. GLICKMAN: Yes, Madam Chair. I'm very grateful
22 to you for accommodating my schedule being on the road for five
23 days. I really appreciate that. I'm here to speak to a couple
24 of issues related to the actual proposed rule and then a couple
25 of the other topics that had been raised in the September 21st

1 memo, that being renewable trading credits, the carbon taxes,
2 and the goals for renewable energy. But I think it is
3 important to echo what Senator Bennett had to say, because I
4 couldn't agree more, that we do a true disservice to both
5 society and what he articulated as the legislative intent when
6 we assume that customers will pay more for renewables. I think
7 it's just more complicated as some of you have inferred here
8 today.

9 He made a couple of points on that. Ironically, even
10 though we call them ratepayers, ratepayers don't really pay a
11 rate, they pay a bill. And I think that when this whole area
12 of renewables and efficiency and conservation evolves, it is
13 all going to come together that when renewables are matured and
14 developed, that's going to drive the cost down. I'm going to
15 give my age away, but when I was in high school my parents
16 bought an Amana radar range. It was like a very big thing. It
17 costs \$1,000 to get a microwave oven. So we know where that
18 has come, and that is a volume issue. And we don't have the
19 luxury of that quite yet, so I think we need to keep in mind,
20 you know, American ingenuity and the God given intelligence
21 that we all have to sort of mature these technologies.

22 So you combine that with driving the cost of the
23 renewable energy itself down with efficiencies and
24 conservation, and you are going to find consumers paying less.
25 And I think we have to look at the big picture just at the

1 beginning here while we are getting this started. I'm reminded
2 that in December of last year when the Governor held an energy
3 forum, the Department of Environmental Protection passed out
4 pie charts. And of the 51 percent of our electric use in
5 Florida, 51 percent of that goes to residential. Of the
6 51 percent, 20 percent is used for swimming pools. Of the
7 51 percent of our electric generation that goes to residential,
8 20 percent goes to swimming pools. I've got believe that we
9 can do better. And we are spending a lot of time, obviously,
10 talking about the renewables that are sort of in the pipeline
11 here, but I would say there is a role for solar panels for
12 swimming pools somewhere in moving us away in the state of
13 Florida.

14 The other thing that Senator Bennett mentioned that I
15 don't think could be emphasized any more is this cost of the
16 externalities that no one talks about. And whether we are
17 talking about the air pollution, the asthma, the lost work
18 days, the emergency room visits, the cardiovascular issues, or
19 global warming, the costs to Florida which is on the first line
20 of the implications of global warming, and we are already
21 seeing this, is unimaginable.

22 Those are costs that the ratepayers are going to pay.
23 And I understand that that might not necessarily be in the
24 narrow sort of rate and reliability focus, but those are the
25 costs that the customers will pay. And I will add to that, and

1 I will get to it a little more in a minute, which is the cost
2 of carbon. I remind you that in California they have managed
3 to keep energy consumption flat for the last 30 years because
4 of a whole lot of regulatory things that they are doing.
5 Believe you me, those customers are paying less and not more.
6 I thought, generally speaking, that the proposed rule was
7 good, albeit an incremental first step.

8 Contracting is, sort of, one element, but there is a
9 much bigger picture, and it is clear that you all understand
10 that. I look forward personally to work with all of you all
11 and staff and also to bring in more technical help and
12 resources, people that are far more expert than I am on the
13 technical aspects of it, but there are a lot of resources out
14 there to help us dig into this new territory that we find
15 ourselves in.

16 Increasing Florida's reliance on renewable energy is
17 really going to result in a more stable energy bill for
18 consumers. It's going to help protect customers from future
19 increases in natural gas and electricity prices and from the
20 cost of meeting these future environmental regulations, such as
21 the limit on global warming, the cap on carbon that's coming
22 down the road, and mercury pollution. Renewable energy
23 technologies are not subject to these risks and they have more
24 stable and predictable long-term costs than coal and natural
25 gas power plants.

1 Projected improvements in renewable energy
2 technologies, along with the policies that encourage renewable
3 energy development will drive down the costs of renewable
4 energy over time. In its current form, the rule does not fully
5 recognize the nature of the developing technologies and even
6 the need for market calming mechanisms such as risk contracts
7 to allow for the development over time of redundancy and time
8 in the multiple systems as, again, this technology matures.

9 The renewable industry is still relatively new in
10 Florida, and we can learn from a recent report by the
11 California Energy Commission. It examined renewable energy
12 contracts from California and 21 other North American
13 utilities, representing more than 21,500 megawatts of renewable
14 energy contracts. The report is called Building a Margin of
15 Safety into Renewable Energy Procurements, A Review of
16 Experiences with Contract Failure. The staff may have looked
17 at this. If not, I can give you all of that information.

18 The report finds that contract failure rates vary
19 considerably among utilities across situations and by
20 technology. The data suggests that a minimum overall contract
21 failure of 20 to 30 percent should generally be expected for
22 large solicitations conducted over multiple years, and ongoing
23 monitoring of contract failure is highly recommended. It seems
24 to me with this high rate of failure that it would be useful to
25 really scrutinize the different approaches used by these

1 utility purchasers to mitigate contract failure.

2 Both the federal government and private industry can
3 provide risk mitigation techniques, insurance being one of
4 them. That's available to renewable energy developers. For
5 instance, they have crop risk management tools, so obviously if
6 there is a problem, a failure with the crops, that they have
7 got some backup for that. And there are also operational risk
8 management tools.

9 Without this option, the only mature renewable
10 industries in Florida able to meet the rule provisions are
11 waste-to-energy plants and landfill gas. And since I have
12 certainly heard from this conversation today we want to get
13 beyond what we're doing, not to diminish what is already going
14 on, so we really need to look at that. These risk management
15 techniques and financial instruments need to be recognized in
16 this rule, or it is unlikely that these techniques can be
17 recognized in the contracts, and thus creating a higher risk of
18 failure.

19 I wanted to mention the issue of carbon taxes. The
20 memo also states that it's premature to consider carbon taxes.
21 And while there is no regulation yet, carbon constraints are on
22 the horizon. In June you all heard from the Natural Resources
23 Defense Council science director about the financial risk of
24 carbon, and I wanted to remind you that last year the U.S.
25 Senate adopted a sense of the Senate resolution that comes to

1 some consensus on global warming, and they move on to look at
2 the design elements of a mandatory greenhouse gas emissions
3 trading system. They have a 14-page white paper that I would
4 be happy to provide.

5 So the good news is the Senate is moving on to
6 solutions, and I think that, of course, with the elections this
7 week, I just have a feeling that you are going to see a lot
8 more on these kinds of energy issues and global warming in the
9 U.S. Congress. And even the Florida Energy Commission, I'm
10 proud to say the legislature had the wisdom to establish and
11 charge them with developing a greenhouse gas reduction plan for
12 the state of Florida. So that is coming.

13 So carbon costs need to be recognized in this rule,
14 so when the credits become regulated the rule will accommodate
15 the role that carbon constraints or taxes will play and be able
16 to react to that new instrument. And I think the bottom line
17 is that when you compare the costs of utilities, when the real
18 costs, be they the actual costs, like carbon, or the
19 externalities like public health implications are factored in,
20 the renewables don't look so, you know, cost in-effective
21 because you are going to get a more level playing field with
22 that.

23 Also, they mentioned the tradable renewable energy
24 credits. Many states allow utilities to comply with the RPS
25 through tradable renewable energy credits. The tradable

1 renewable energy credits were not included. And as staff
2 stated, they felt that they were a new concept in developing.
3 I'm sure there is room for argument, but I would disagree with
4 that. TRECs are operating in both regulated and unregulated
5 environments, they are recognized and fully vetted instruments,
6 fully controlled and audited, and they are currently being
7 traded in Florida. Lakeland, the City of Tallahassee, JEA, so
8 I think that's something we might want to dig into a little bit
9 more.

10 And, lastly, I want to mention the issue of setting
11 goals. And, of course, pursuing the development of renewable
12 energy goals which we all commonly call renewable portfolio
13 standards. I think it is imperative that this standard be
14 defined in a way to really develop the broadest range of
15 renewables. And to do so, you must bring together a broad set
16 of stakeholders and experts to participate and expand the level
17 of participation. There are 23 states and the District of
18 Columbia that have adopted renewable portfolio standards. The
19 standards range from modest to ambitious, and definitions of
20 renewable energy do vary. Nine states do not include energy
21 from garbage incinerators in their RPS. Seven states actually
22 have specific requirements for solar as parts of their goals.
23 So they have a goal within a goal. With the elements of those
24 policies, while they are all different, renewable portfolio
25 standards have the potential to jump start and open up the

1 renewable market.

2 But like most things in life, the devil is in the
3 details. So in any deliberations over an RPS, the goal must be
4 to develop the broadest range of renewables. And, frankly, we
5 have a lot of other states in which we can follow along. We
6 are not really out in front on this, so let's borrow from their
7 lessons learned. Let's see what they are doing, what is
8 working well, and then we need to combine that with the unique
9 characteristics of Florida.

10 It was mentioned, wind energy for instance, we do not
11 have on-shore sustained winds, so we don't have that as a
12 resource. Hopefully some of the offshore will develop. Some
13 of these efforts have been particularly successful. For
14 example, Connecticut increased its RPS in 2003, extending the
15 standard to all utilities in the state. Iowa already met its
16 standard in 1999. New York is on its way to meeting its goal
17 of 25 percent of its electricity from renewables by 2013, and
18 that was first announced by New York's governor in 2003.

19 New Jersey's renewable portfolio standard is one of
20 the most aggressive in the United States. It requires each
21 supplier and provider serving retail customers in the state to
22 include in its electricity. It sells 22.5 percent qualifying
23 renewables by 2021. I think that one of the things that you
24 will want to look at as you are looking at a standard will be
25 this idea of a particular solar requirement, because I do think

1 that we are going to have to really make specific, if we want
2 to develop some of these alternatives, and I think there is a
3 great opportunity for that.

4 So, once again, Madam Chair, I really appreciate your
5 courtesy to me in allowing me to speak. Thank you.

6 CHAIRMAN EDGAR: Thank you.

7 Commissioners, any questions for Ms. Glickman?

8 COMMISSIONER CARTER: (Inaudible.)

9 CHAIRMAN EDGAR: My understanding is that she will
10 not be here this afternoon.

11 MS. GLICKMAN: Yes. I have a 2:45 flight, I'm sorry.

12 CHAIRMAN EDGAR: Commissioner Carter.

13 COMMISSIONER CARTER: Thank you, Madam Chairman.

14 Thank you so very much.

15 MS. GLICKMAN: Sure.

16 COMMISSIONER CARTER: I sincerely appreciate your
17 passion for the protection of the environment as well as
18 dealing with this necessary perspective. I had asthma at age
19 12, and my 72-year-old sister who lives in St. Petersburg, she
20 still suffers with it. So a lot of times we're here talking
21 about the nuts and the bolts of industry, and we don't look at
22 the fact that there are people on the other end of it, so I
23 appreciate your passion.

24 I think that we do need to look at how to do a better
25 job. And I don't know if you were here this morning, but one

1 of my comments is that we need to do something. And, I mean,
2 this rule is a good start. The Chairman mentioned about some
3 of the other things that we are going to be doing later on, and
4 we sincerely appreciate if you could come back with us when we
5 do those other things and give that to us.

6 You have heard the discourse this morning. Do you
7 really think -- well, let me just ask you this. What would you
8 put in the parameters of coming up with some -- what would be
9 your standards that you would impose, if we're going to set any
10 kind of goals, what would be the fundamental standards that you
11 would import in those?

12 MS. GLICKMAN: Well, I think we need to look at the
13 fundamental process of bringing a wider group of stakeholders
14 to the table. And I don't mean to sound flippant when I say
15 when there is a notice in the Florida Administrative Weekly,
16 I'm not sure everybody gets to see that. I don't know, you
17 know. So I think it's really going out of our way. And I
18 already had the sense that you are probably going to be looking
19 at renewable portfolio standards and goals in maybe another --
20 you said a meeting in January where this is going to be
21 developed. So I think let's work together to do that. Let's
22 look at -- I mean, I have a map right here of what all the
23 other states are doing. It is very easy. We can look at who
24 is doing what well.

25 You know, I happen to work with a large national

1 organization. So, you know, we have a nationwide perspective.
2 So, you know, you look at the map and you can see it from here,
3 there is nothing in the southeast. So, you know, it's time.
4 So I think it has to be a goal, a specific amount. I think it
5 has to be a time certain. I think we have to look slightly
6 differently at some of the -- you know, there are different
7 kinds of renewable energy. There is clean renewable energy,
8 and there is renewable, and there is a balance. And, I mean, I
9 think, again, it's going to have to be a balancing act.

10 Florida has some limitations as to our opportunities.
11 I think it is one of the reasons why the waste-to-energy
12 industry has grown, but we need to be doing some other things.
13 And we need to create a playing field that takes into account
14 these costs, these externalities that we sometimes either don't
15 pay attention to, or don't dismiss, or because they are not
16 right in front of us.

17 So I think it's a goal, it's a time certain. And I
18 appreciated what was said earlier about the issue of
19 conservation and efficiency. We need to, in a regulatory way,
20 look at conservation and efficiency as a resource, as a utility
21 resource. So if the average person in Florida uses twice the
22 electricity of the average person in California per capita,
23 which they do, and California has maintained a complete flat --
24 I mean, that's a great state to compare us to because they are
25 not -- they are doing really well economically, so nobody is

1 suffering in California.

2 And we should look at the job creation. Arizona just
3 came up with a climate plan, and their stakeholder group was
4 very broad and diverse, and they indicate they could have as
5 many as 300,000 new jobs based on development of renewable in
6 these new industries. And I can provide you with all of those
7 information.

8 But that is what I would like, is I would like an
9 opportunity where we can really dig down and bring everybody to
10 the table. That's the utilities, the conservation community,
11 and the people who really understand efficiencies,
12 conservation, and the development of renewable. Lakeland
13 Electric has a solar thermal program where they own the solar
14 hot water heaters. It actually passes RIM, which I think RIM
15 is another discussion, the rate impact measure, the cost
16 benefit test. You all look at efficiency and conservation.

17 But let's learn from that program, and that might be
18 something that the utilities want to take up where they
19 actually, like Lakeland, own the solar hot water heaters. And
20 solar hot water is a no-brainer. That is 20 to 25 percent of
21 the average person's utility bill. So I strongly believe that
22 you can do this by saving costs to customers, and saving money,
23 and right now most people -- and it may not be, you know, the
24 people in this room, but most people are suffering tremendously
25 with their taxes having gone up, their insurance going through

1 the roof, their gas prices are up, and now we are socking them
2 with even higher electric bills.

3 And, again, it's not a blame thing, we are all in
4 this together. Thank God the utilities provide electric
5 electricity. I, for one, am not ready to give up my air
6 conditioner just yet, you know, as much as I would like. So I
7 think we have to have a we're-all-in-this-together attitude.
8 And we have no choice but to do something. This isn't a
9 luxury. And, yes, we have done some things the old certain way
10 for the last 20 or 30 years, but it is a new day dawning. And
11 the practical realities of what climate change is going to mean
12 to Florida is sea level rise and what it is doing to everything
13 from our fish, our habitat, to coral reefs, to dengue fever
14 (phonetic) and malaria, I mean, it is unimaginable kind of a
15 nightmare. And it is just time that we come to the table and
16 reality.

17 And you know I have come to you all before very
18 concerned nationally that the utilities are looking to get
19 under the wire of carbon constraints by putting up 154 coal
20 plants. I happen to think it's immoral. And so I'm concerned
21 about the couple of coal plants that are being proposed here.
22 And, of course, we will deal with those on a one-by-one basis,
23 but it is a big mixture of issues. The problem with energy is
24 there is not a simple silver bullet. Solar is not going to
25 solve the problem, you know, but it's a piece of the puzzle.

1 And we need to be thinking differently about
2 distributed generation, so you are not losing all of that
3 electricity with the transmission and the line loss. I mean,
4 we're just going to have to get really smart about it and
5 understand we are all in the boat together and move toward
6 solutions. And we have lots of other states to look to, and
7 also other countries that have done a far better job than what
8 we have done.

9 So, I just think it is time to roll up our sleeves.
10 And I offer not only my help, but our colleagues, like my
11 colleague Leon Jacobs, who has some more technical expertise
12 than I, and lots of other folks. The Florida Solar Energy
13 Center, as you all know, is a tremendous resource. They should
14 be in this room today, right, talking about the role of solar.
15 But I think solar hot water heaters, which I am proud to say I
16 just got a solar hot water heater, and I got a solar-powered
17 attic fan. And, you know, a solar-powered attic fan, it lowers
18 the temperature of your whole house, so it makes your air
19 conditioner not have to work as hard. I mean, what a genius
20 idea that is, and it is not expensive.

21 And when you get a 30 percent federal tax credit, and
22 you get a rebate from the state, and now I understand, of
23 course, after I have paid for it, Progress is now going to have
24 another rebate. So I've got to see if somebody from Progress
25 can help me out there. But I'm just saying these are simple

1 things. It overlaps with the issues of insurance and all the
2 things about fortifying our homes that the Governor is working
3 very hard to do. I mean, this is not an exclusive thing.

4 Someone mentioned the Governor's Commission, the
5 Century Commission on sustainability. It would be sad and
6 laughable if we did not have climate change and sea level rise
7 and all of those things on the agenda of the Governor's
8 Commission on sustainability. It is looking at 50 and 100
9 years. It would be irresponsible, actually. So I think we
10 have to take these issues and integrate them so when you are
11 building new homes, efficiency, solar, it would be insane not
12 to build new homes without solar hot water. I mean, it would
13 just be silly. So I think we just have to be adults, and, as
14 we say, take our medicine and do it as best as we can.

15 COMMISSIONER CARTER: As a beneficiary of
16 integration, I'm with you on that. Thank you for your time.

17 And, Madam Chairman, thank you for indulgence. And
18 let me just say that we are, as a Commission, committed to
19 being not just one of the leaders in the country, but we are
20 committed to being the leader in the world in renewables. And
21 also a leader in the world in the protection of our
22 environment, because that is what makes Florida Florida. Thank
23 you so much for your time.

24 And thank you, Madam Chairman.

25 CHAIRMAN EDGAR: Thank you, Commissioner.

1 Are there are any questions from any of the other
2 participants for Ms. Glickman?

3 MS. GLICKMAN: Leon Jacobs had a comment to add to
4 that.

5 MS. CLARK: Madam Chairman, could I just ask
6 Ms. Glickman something quickly?

7 CHAIRMAN EDGAR: You may.

8 Let's do questions, and then we will come back.

9 MS. CLARK: You mentioned renewables and clean
10 renewables. Can you tell us the difference and where each type
11 falls, and why they fall in the other category?

12 MS. GLICKMAN: The point I was making is there are a
13 number of states that do not include incinerated garage as part
14 of it, so people with different states define it differently.
15 So there are some toxics involved and some air emissions, so I
16 don't want to get into a debate over that, because I don't
17 think this is the proper forum, but I'm just saying these are
18 the issues. That's why you need to sort of dig into it. So
19 there are some renewable energies that are cleaner than others,
20 that's all.

21 CHAIRMAN EDGAR: Commissioner Arriaga.

22 COMMISSIONER ARRIAGA: Thank you.

23 Ms. Glickman, you mentioned the TRECs, and I think I
24 heard you say that they are a very well-known financial
25 instrument. They are tradable. It is used. What would you

1 recommend that we include in a rule, if at all, to make this a
2 more participatory or to promote the use of TRECs, because it
3 is not included as it is right now?

4 MS. GLICKMAN: I think it's opening the door so
5 that -- I'm not prepared, but I could get back with you with
6 some actual suggested language and work with staff. But I
7 think it is not excluding it at this point. Maybe, again, it
8 is taken up in a different place, or, you know, whether or not
9 it is this particular rule that deals with the credits, but it
10 seems to me that that is an instrument where people can, you
11 know, meet these renewable standards that you will
12 theoretically be setting. So I just don't want to close the
13 door on that when you have JEA and the City of Tallahassee and
14 others already trading them. So it's an accepted form of
15 trading.

16 COMMISSIONER ARRIAGA: Okay.

17 CHAIRMAN EDGAR: Commissioner Tew.

18 COMMISSIONER TEW: Thank you, Ms. Glickman. I had
19 one quick question, I think, for you. You mentioned that this
20 was part of an incremental approach, and I think you had some
21 nice things to say about the direction we're going in. And I
22 just wanted to ask you, do you think it is preferable to move
23 ahead with some version of a rule, even if it's not the optimum
24 of everything you would want to see Florida do, rather than to
25 postpone rulemaking at this point?

1 MS. GLICKMAN: I think you have two separate things
2 on the table here, and I think working out rules so that the
3 generators who -- renewable generators who already are in
4 business can actually make arrangements with the utilities and
5 have the protections they need and everybody works out a
6 contract, I think that's one conversation. I think the other
7 is a bigger conversation. So it's not to suggest -- and the
8 folks that are doing these contracts are going to have a much
9 better, you know, notion of this. But I think that we are
10 selling the whole thing short if we think it is only about a
11 contract between the handful of renewable energy generators
12 that we have now. Then it is sort of missing what the
13 legislature has asked you all to do, and I don't think you are
14 missing that, because there has been a lot of conversation
15 about that.

16 So I think there are -- in some sense it's two
17 separate things. But I do think those couple of things that I
18 mentioned, like we should look into those, you know, risk
19 contracts. Because if they are being used -- and, you know, so
20 I think we need to look at a few things. And it may be that we
21 really do need to put something about carbon in there, even if
22 it isn't elaborated on, and we need to put something about the
23 tradable renewable energy credits in there, so we don't
24 eliminate that from being a part of it. So I would imagine,
25 again, the technical folks will know better, but we may not

1 want to just leave that out because those things are coming
2 around the corner.

3 COMMISSIONER TEW: I understand that we will have
4 some discussion about some of those type proposals later today.
5 I know that some of the commenters have included those kind of
6 proposals in their comments, so I think we will have a
7 discussion of those later on. I appreciate that.

8 CHAIRMAN EDGAR: That is my expectation. Okay. I'm
9 going to go this way just because that way I can keep track.

10 Mr. Hunter.

11 MR. HUNTER: Ms. Glickman, you have spoken about how
12 having renewables on board will ultimately protect the
13 ratepayers from the volatile cost of fuel and uncertainty in
14 the future. Do you feel then that it would be appropriate to
15 have the option for a fixed energy cost, you know, for what the
16 utilities pay for renewables, which fixes their cost of fuel?
17 For example, be it 6 cents per kilowatt or whatever, and in
18 that case if the cost of, for example, natural gas goes up,
19 that bill stays the same, and if the cost does go down, well,
20 at least the cost doesn't increase. Is that what you're
21 getting at when you are talking about how it would free them
22 from the -- make them independent from the cost of fossil
23 fuels?

24 MS. GLICKMAN: Well, I was getting at more of the
25 general notion that the renewables aren't subject to, you know,

1 ballooning escalating natural gas prices. But I imagine, and
2 folks who are more into the economics of this, that any time
3 you have certainty, you know, that's just going to provide some
4 comfort for folks. So I think certainty is important in it,
5 but I was really speaking more generally. You know, solar
6 energy, I mean, you're in a hurricane, everybody's electricity
7 is out. You know, I'm the one that everybody on my street is
8 going to come shower at my house, okay, because I'm going to
9 have hot water. So, you know, it just depends, but I would
10 think certainty is an important part.

11 CHAIRMAN EDGAR: Mr. Moyle, were you --

12 MR. MOYLE: I had just a couple of questions. I had
13 asked staff earlier some questions about, you know, goals, I
14 guess is the right word. The legislature used that term
15 recently, and said that the Commission could adopt rules with
16 respect to goals. And I think I heard staff say we have 500
17 megawatts of renewable presently. Is that your understanding,
18 approximately?

19 MS. GLICKMAN: Approximately, yes.

20 MR. MOYLE: Do you know how many megawatts the state
21 has as a total?

22 MS. GLICKMAN: In their charts, it's less than one
23 percent, so I don't know what it comes to in megawatts, but --

24 MR. MOYLE: How does that compare with what you have
25 seen in some of the other states in terms of where they are on

1 renewables as part of the generation mix?

2 MS. GLICKMAN: Well, it doesn't compare to where
3 other states are at. You know, 23 states and the District of
4 Columbia have goals. As I mentioned, Iowa, whose goal -- it's
5 is a little hard to read, but they met their goal in 1999. You
6 know what, I'm having a hard time reading. They don't have a
7 percentage by their name. But New York is almost there at,
8 like, 18 percent, they have a 25 percent goal. Washington,
9 15 percent by 2020. I mean, I can give you a whole list.
10 California, 20 percent by 2018. I mean, they have really
11 significant goals. Montana, 15 percent by 2025.

12 You know, I think it is really hard to compare the
13 states, because different states -- if you have wind energy,
14 you know, it makes it a whole lot different. I mean, Florida
15 Power and Light has a green pricing program called Sunshine
16 Energy, and it effectively is they buy wind energy from a
17 couple states away. You know, when they get a certain amount
18 of people signed up, they put 150 kW of solar up, which is a
19 relative small amount. I'm very supportive of that program,
20 even though it is not ideal and it is maybe not perfect, and
21 it's not developing renewable capacity in our state, but you
22 have got to start somewhere. So, you know, I can, like, say
23 something nice and criticize all at the same time, because it
24 is just kind of where we are here. I mean, we have got to move
25 forward, so --

1 MR. MOYLE: A related question. And we have had a
2 lot of issues out here and whatnot, and I know that you follow
3 the legislative process and whatnot, but it's your
4 understanding that this rulemaking is to adopt rules to promote
5 the development of renewable energy, correct?

6 MS. GLICKMAN: As a general goal, yes.

7 MR. MOYLE: And you would agree with me, would you
8 not, that the place and the way to do that would be to take the
9 ideas that are provided by you on carbon and others that may be
10 appropriate as policymakers and to put it into a rule that
11 people can look to that addresses renewable energy? You would
12 agree with that, wouldn't you?

13 MS. GLICKMAN: Yes, absolutely.

14 MR. MOYLE: One of the issues, and I don't want to
15 get into it, but it's a separate rule versus amending an
16 existing rule. And, you know, there are a lot of issues that
17 relate to renewable energy as you have developed. If we needed
18 additional information on this risk mitigation that you talked
19 about, would your group be able to provide that?

20 MS. GLICKMAN: Yes, absolutely. And probably put you
21 to the California Energy Commission that developed this report.
22 I think that report is significant. I mean, to look at 21, you
23 know, areas that are looking at this, so if your staff hasn't
24 seen that, I think it would be worth looking at in terms of
25 contract failure.

1 MR. MOYLE: Thank you. I have nothing further.

2 CHAIRMAN EDGAR: Thank you.

3 Mr. Jacobs, welcome. And if you would start with an
4 appearance for the court reporter.

5 MR. JACOBS: I'm sorry. My name is Leon Jacobs of
6 the firm of Williams and Jacobs. I was here just to kind of
7 buttress Ms. Glickman's, but I wanted to respond to, I think, a
8 general inquiry that I hear from you of how to -- some input
9 about how to proceed with your rulemaking effort. And that
10 comment would be, I think, you are beginning that effort in a
11 wise way and that is to take a wise and strategic approach.
12 However, I would suggest to you that it is a beginning, and I
13 would echo Ms. Glickman's comments that you are at the
14 beginning of an important journey. That journey will require
15 you to embrace a lot in a varied scope of input.

16 The California Commission, I think, is an excellent
17 reference point. Before that Commission actually did their
18 report, they had come out with an analysis of what the impact
19 to the state was of their heavy reliance on gas. And what I'm
20 hearing a lot of the resource planning issues that you are
21 facing in dealing with this approach to solving this problem is
22 to look at, okay, we have a diversity problem in that we have
23 heavy reliance on gas. We don't want to harm consumers
24 additionally by going to renewables. And I suggest to you that
25 is the proper perspective.

1 However, what you should find as you move along this
2 continuum is that this should be one of the tools that you look
3 to to address that heavy reliance, not a cost. And what we
4 think you will find is that you have an incredible opportunity,
5 because Florida has not utilized alternative sources of energy
6 in anywhere near their potential. And so you stand at an
7 important threshold that I think Senator Bennett outlined for
8 you, and that is to take a strategic review of this wholesale
9 area and using your expertise and the expertise of your staff
10 draw a map for the legislature and for the state about how to
11 proceed effectively down this path.

12 And I think you have tools available to you. Yes,
13 there are limitations to what raw renewable potential there is
14 today. You can set a path that would incent more providers to
15 come into this. As a classic example, what we have assumed in
16 your approach is that the coal plant is going to insulate the
17 market from volatility. I would suggest to you that it will
18 insulate you from the volatility of gas, but you want to do a
19 lot more careful research about whether or not it insulates you
20 from total volatility in the energy markets.

21 What I would hope would happen is that over time you
22 will begin to drive the conduct of this market by the presence
23 of renewables and DSM and conservation and efficiency so that
24 what you will begin to see is that those market presences, the
25 volatility in coal that we are seeing now, the volatility in

1 capital costs for coal plants, we will begin to see them
2 respond to what you are doing in these kinds of areas, rather
3 than being the tail that's wagging the dog. And I suggest to
4 you that if you want -- that will be our very most specific
5 input to you is don't waste this moment in time, because I
6 think it will be critical to the future of the state, it will
7 be critical to the consumers of the state. They don't have
8 anybody else with whom they share the risk with.

9 As I am hearing the discussion today, ultimately they
10 are going to pay the avoided cost, okay, however that cost is
11 calculated. And so the only ox that I'm hearing today that may
12 get gored is theirs. So I suggest to you that we are at a
13 beginning point. We are at an early point. There are not real
14 simple solutions to the task you have before you today. They
15 gave you a tough job, but I think it's manageable. I think you
16 have some good leads that have been given to you by other areas
17 in other states and I would highly encourage those to you.

18 CHAIRMAN EDGAR: Thank you, Mr. Jacobs. Any other
19 comments? Okay.

20 We're going to go on lunch break. It is
21 approximately 12:35. We'll come back at 2:00. When we do, we
22 will take questions on Ms. Harlow's presentation. 2:00. And
23 then after the questions, Mr. Wright, we'll begin with you.

24 (Lunch recess.)

25 (Transcript continues in sequence with Volume 2.)

1 STATE OF FLORIDA)
2 COUNTY OF LEON)

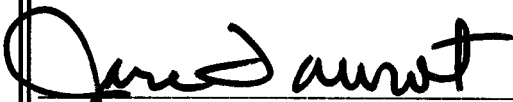
CERTIFICATE OF REPORTERS

3
4 WE, JANE FAUROT, RPR, and LINDA BOLES, CRR, RPR,
5 Official Commission Reporters, do hereby certify that the
6 foregoing proceeding was heard at the time and place herein
7 stated.

8 IT IS FURTHER CERTIFIED that we stenographically
9 reported the said proceedings; that the same has been
10 transcribed under our direct supervision; and that this
11 transcript constitutes a true transcription of our notes of
12 said proceedings.

13 WE FURTHER CERTIFY that we are not a relative,
14 employee, attorney or counsel of any of the parties, nor are we
15 a relative or employee of any of the parties' attorneys or
16 counsel connected with the action, nor are we financially
17 interested in the action.

18 DATED THIS 14th DAY OF NOVEMBER, 2006.

19 

20 

21 JANE FAUROT, RPR
22 FPSC Official Commission
23 Reporter
24 (850) 413-6732

25 LINDA BOLES, RPR, CRR
FPSC Official Commission
Reporter
(850) 413-6734