

1 A P P E A R A N C E S

2 STACY DOCHODA - FRCC

3 JOSE APONTE - Tampa Electric Company

4 STEVE SIM - Florida Power & Light Company and Gulf Power Company

5 MAGGIE SHOBER - Southern Alliance for Clean Energy

6 KATIE CHILES OTTENWELLER - Vote Solar

7

8 PUBLIC COMMENT SPEAKERS:

9 ZELALEM ADEFRIS - Catalyst Miami

10 MACKENZIE MARCELIN - Climate Justice Organizer

11 RAQUEL FERNANDEZ MAKAROV - Sierra Club

12 FRANCOIS J. ALEXANDRE - Konscious Kontractors

13

14 PSC STAFF:

15 GABRIELLA PASSIDOMO

16 TOM BALLINGER

17 PHILLIP ELLIS

18 DOUGLAS WRIGHT

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

2 CHAIRMAN CLARK: Okay. I think we've got
3 everything cleared up. We are going to go ahead
4 and call the workshop to order.

5 Welcome to the Commission workshop on the 2020
6 10-year site plan for Florida's electric utilities.
7 I would like to ask staff, if they would, to please
8 read the notice.

9 MS. PASSIDOMO: Good afternoon, Chairman Clark
10 and Commissioners. Gabriella Passidomo on behalf
11 of Commission staff.

12 By notice issued on August 11th, 2020, this
13 time and place has been set for a Commission
14 workshop to review the 2020 10-year site plans for
15 Florida's electric utility. The purpose of the
16 workshop is set out in the notice.

17 CHAIRMAN CLARK: Thank you, Ms. Passidomo.

18 We've got several presentations that are going
19 to be made this afternoon. What I would like to
20 ask is that Commissioners and staff, as the
21 presentations are concluded, we will take an
22 opportunity to ask questions of those individuals
23 making the presentations, and then we will, at the
24 end of the hearing, have a public comment section.
25 We do have five members of the public that have

1 requested to comment today. So we will take those
2 up -- take their comments at the very end today.

3 Our first presenter this afternoon is the
4 Florida Reliability Coordinating Council. We've
5 got a little bit of feedback, I believe. Let's get
6 some microphones.

7 Just a reminder to anyone that's participating
8 in today's meeting, please mute your microphones.
9 Please mute your microphones until you are going to
10 be -- and your cameras, unless you are speaking or
11 presenting at that time.

12 All right. Let's move on to FRCC's
13 presentation. Stacy, is it Dochoda?

14 MS. DOCHODA: Good afternoon, Chairman. It's
15 Stacy Dochoda. The C in my last name is silent, so
16 it's a rather challenging name.

17 Are you able to hear me okay?

18 CHAIRMAN CLARK: Yes, we can hear you fine.

19 MS. DOCHODA: Great. And.

20 I think I will pause to let staff pull up the
21 slides. I don't see those yet. Oh, there they
22 are. Great.

23 Well, thank you for inviting me to speak to
24 you. Again, I am Stacy Dochoda, President and CEO
25 of the Florida Reliability Coordinating Council,

1 and today I will be providing you a summary of our
2 work looking at the 2020 10-year site plan.

3 Next slide, please. Can you advance to the
4 next slide, please? Thank you.

5 A little bit about FRCC. We are a nonprofit
6 corporation that was formed in the 1970s. Our
7 vision is to be the premier organization for grid
8 reliability and security in North America. And our
9 vision -- excuse me -- our mission is to coordinate
10 a safe, reliable and secure bulk power system with
11 our members.

12 We have 20 members. They are the utilities in
13 Florida include investor-owned utilities,
14 cooperative and municipal utilities.

15 We carry out our activities on behalf of our
16 members, and that includes being a reliability
17 coordinator for Florida, and in that role we act
18 like the air traffic controller in the high voltage
19 electric grid.

20 We are also a planning authority working with
21 our members to coordinate transmission planning in
22 our area, with a staff of 26, and an annual budget
23 of \$15 million.

24 Next slide, please.

25 Today, I will describe the results of the 2020

1 FRCC load and resource plans. The topics will
2 include how Gulf Power data is handled in the plan,
3 the utility's integrated resource planning
4 processes, and the aggregate load forecast,
5 generation forecast, reserve margin and fuel mix in
6 the 10-year site plan.

7 I will also discuss the reliability
8 considerations of both utility solar additions and
9 the natural gas infrastructure in Florida.

10 The data that I will show you was filed by the
11 utilities earlier this year, and it does not take
12 into account any projected impacts of COVID-19.

13 Next slide, please.

14 In the 2020 FRCC load and resource plans, firm
15 peak demand and energy forecasts are comparable to
16 the 2019 10-year plan. The utilities are projected
17 to add over 12,000 megawatts of new firm capacity.

18 Now, when we consider the demand forecast and
19 the plan generation, the planned reserve margins
20 are above 20 percent over the 10 years. Demand
21 response is reducing summer peak demand by 6.1
22 percent by 2029, and energy efficiency codes and
23 standards are projected to reduce peak demand by
24 5.1 percent by 2029. Meeting those target reserve
25 margins is increasingly dependent upon demand

1 response in the latter years.

2 And finally, the aggregate forecasts have
3 renewable energy increasing from four percent to 13
4 percent on an energy bases.

5 Next slide, please.

6 On January 1st of 2019, Gulf Power became a
7 subsidiary of NextEra Energy, which also owns
8 Florida Power & Light. Now, in the previous FRCC
9 load and resource plan, Gulf was not part of the
10 FRCC load or generation, but we did supply their
11 data. It was included in the state section of our
12 report.

13 Now, FPL plans to integrate Gulf, creating a
14 single operating system on January 1st, 2022. Now,
15 Gulf has about 2,300 megawatts of existing
16 generation that will be added to the FRCC region.
17 And in this presentation, we will show the first
18 two years, '20 and '21 without a Gulf, and then in
19 2022, Gulf Power's data has been added.

20 Next slide, please.

21 In Florida, each utility develops its own
22 integrated resource plan to look out in into the
23 future to forecast customer demand, and how to
24 reliably serve that demand. The utility will
25 prepare forecasts of demand and energy usage

1 considering drivers such as customer growth,
2 impacts of energy efficiency and normal weather.
3 Fuel and resource price forecasts are also
4 developed.

5 The utility will consider the demand in energy
6 that can be produced by its existing resources, and
7 also consider plans for upgrades and outputs, and
8 will also consider the impact of resource
9 retirement, or the expiration of purchased power
10 agreements.

11 The forecast of demand and energy needs are
12 compared to the resources available, and then
13 compared to the target reserve margin criteria.
14 And where there is a shortfall, the utility will
15 consider options to meet the reserve margin
16 targets.

17 Now, these options will include supply side to
18 just new generation or purchased power, and demand
19 side options, such as load control. The cost and
20 operating criteria of these options are used to
21 evaluate the alternative. And the result of this
22 analysis is each utility's integrated resource
23 plan.

24 Next slide, please.

25 The individual utility integrated resource

1 plans are brought together by FRCC to create the
2 FRCC load and resource plan. In addition, we use
3 the load and resource plan data to conduct
4 reliability assessment of generation adequacy and
5 transmission reliability.

6 Next slide, please.

7 So looking first at the load forecast portion
8 of the load and resource plan, firms on repeat
9 demand growth is similar to last year's 10-year
10 site plan, and grows on average 1.1 percent per
11 year.

12 Forecasted energy sales growth is also similar
13 to last year's 10-year site plan, and it grows on
14 average, 0.75 percent per year.

15 Demand response is reducing firm summer peak
16 by 6.1 percent. And then there are two types of
17 impacts from energy efficiency on the summer peak
18 forecast. First, mandated codes and standards are
19 reducing peak demand by 5.1 percent, and utility
20 sponsored energy efficiency programs are reducing
21 peak demand by 1.4 percent.

22 Next slide, please.

23 This slide includes the several factors that
24 impact the load forecast. Please note again that
25 the load forecast for this year's 10-year site

1 plan, they were prepared prior to COVID-19. And
2 rates at the time these forecasts were developed
3 have increased to about three percent in January of
4 2020. Population growth was projected to remain
5 strong, however, wage and income growth have not
6 kept pace with employment growth.

7 Energy efficiency codes and standards and, to
8 a lesser extent, distributed solar are dampening
9 energy use growth.

10 In addition, commercial customer forecasts are
11 being dampened by on line commerce.

12 And then finally, the impact of electric
13 vehicles is forecast to grow to 500 megawatts by
14 2029.

15 Next slide, please.

16 This graph shows the 2019 and the 2020 10-year
17 site plan firm peak demand forecast. The 2020
18 10-year site plan forecast is in the red.

19 Now, the unusual shape of the lines on this
20 chart is due to the effect of the integration of
21 Gulf into FPL in January of 2022. The first two
22 years displayed, '20 and '21, are without Gulf.
23 And then in '22, we included Gulf's demand in both
24 the 2019 and the 2020 10-year site plan demand so
25 that you can see the growth on a comparable basis.

1 The growth rates are the line between the two
2 forecasts from '22 to '29 were very similar, at
3 about one percent.

4 Next slide, please.

5 Now, this is the chart of the energy forecast
6 from the 10-year site plans. Again, Gulf Power
7 data is included beginning in the year 2022.

8 Now, the 2020 10-year site plan forecast has
9 an average annual growth rate of 0.75 percent
10 between 2022 and 2029.

11 Next slide, please.

12 On this graph, the black line shows the actual
13 historical summer peak demand from 1991 to 2019.
14 So those were actual demand. And then to the
15 right, we have the forecasted from this year's
16 10-year site plan.

17 Next slide.

18 And so here, you can see that expanded. This
19 is Slide 13. And we show the 2020 10-year site
20 plan forecasted summer peak demand. And here we
21 are highlighting the impact of demand response and
22 utility energy efficiency programs.

23 The red line on the bottom is the forecasted
24 summer firm peak demand. The top yellow line is
25 the forecasted demand without demand response and

1 energy efficiency.

2 If we didn't have demand response, peak demand
3 would be 6.1 percent higher in 2029. Similarly,
4 without energy efficiency programs, demand would be
5 1.4 percent higher by 2029.

6 Next slide, please.

7 Here we have the compound average annual
8 growth rate for firm peak loads of the summer in
9 red and the winter in blue. The chart really
10 highlights the decline in forecasted growth rate
11 from around two percent in the early 2000s to
12 around one percent today.

13 Next slide, please.

14 This bar chart shows demand response as a
15 percentage of peak demand in various areas of the
16 United States. In 2020, demand response in the
17 FRCC area is projected to be 5.9 percent of peak
18 demand.

19 Next slide, please.

20 Now I will turn to capacity additions and
21 reserve margins.

22 Utilities are planning over 12,000 megawatts
23 of new capacity over the next 10 years, and that
24 includes 4,500 megawatts of firm solar. That 4,500
25 megawatts of firm solar is drawing from 9,700

1 megawatts of nameplate solar. On average, the
2 utilities counted 42 percent of fuller nameplate as
3 firm at peak.

4 This new capacity also includes 1,400
5 megawatts of battery storage. And the 10-year site
6 plans project 5,100 megawatts of capacity
7 retirement.

8 When we consider the load and generation
9 forecast and the planned reserve margins that are
10 projected to remain above 20 percent over the 10
11 years, but meeting that reserve margin target is
12 increasingly dependent on demand response in the
13 latter years.

14 Next slide, please.

15 This bar chart shows the available capacity
16 over the 10 years. It includes the impacts of
17 plans, new built and retirement. Again, there is
18 over 1,200 megawatts of new capacity planned for
19 the region. Of this, 3,400 megawatts is combined
20 cycle generation, and 1,900 megawatts is from
21 combustion turbines or reciprocating engines.
22 Again, there are 4,500 megawatts of firm solar, and
23 1,400 megawatts of battery capacity. And during
24 that time --

25 COMMISSIONER BROWN: Could you please -- I am

1 sorry, could you please repeat that?

2 CHAIRMAN CLARK: Commissioner Brown.

3 MS. DOCHODA: Certainly, Commissioner Brown.

4 So the -- this chart shows -- what's embedded
5 in this graph are 1,200 megawatts of new capacity,
6 and of that, there is 3,400 megawatts of combined
7 cycle generation, and 1,900 megawatts from
8 combustion turbine, or reciprocating engines. And
9 then in addition, there is 4,500 megawatts of firm
10 solar, and 1,400 megawatts of battery capacity.

11 COMMISSIONER BROWN: Thank you.

12 MS. DOCHODA: Certainly.

13 And then finally, there are 5,100 megawatts of
14 plant retirement planned.

15 Next slide, please.

16 This chart shows the incremental generation
17 changes, additions or retirement, by fuel type for
18 each year. In the blue, we show coal. In the red,
19 natural gas. The green is solar. And for the
20 first time this year, we are showing purple, with
21 the battery capacity being added.

22 Next slide.

23 For nuclear generations, there is no material
24 change in projected capacity over the 10 years. We
25 have 3,600 megawatts, and we have 20 megawatts of

1 planned upgrades over the 10 years.

2 Next slide.

3 So now I will turn to reserve margin. And
4 here, we are using the forecasted firm load. So
5 this is assuming that demand response and utility
6 energy efficiency programs are used to reduce
7 demand. So using the firm load and the projected
8 available resources, we calculated the reserve
9 margins over the 10-year period, and they are
10 expected to be above 20 percent over the forecast
11 period.

12 Next slide.

13 These charts show forecasted capacity by fuel
14 type on a megawatt basis. In the blue, you can see
15 that natural gas goes from 74 percent in 2020 to 71
16 percent in '29. In yellow, the coal capacity is
17 decreasing from 11 percent to eight percent, while
18 in red, renewables increased from three percent to
19 12 percent on a capacity basis.

20 Next slide.

21 These pie charts are looking just at the
22 renewable resources, and the sources of renewable.
23 In the red, solar is growing from 79 percent this
24 year to 93 percent of renewable capacity in 2029.

25 Next slide.

1 This chart shows how the amount of forecasted
2 solar capacity has changed from the 2018 10-year
3 site plan to this year. Each year's 10-year site
4 plan has shown more forecasted solar than the prior
5 year's plan for the same year, however, the rate of
6 increase has slowed this year.

7 Next slide.

8 These pie charts show the forecasted fuel mix
9 on an energy, or a gigawatt hour basis. In the
10 blue, natural gas decreases from 71 percent to 65
11 percent in 2029. In the yellow, coal decreases
12 from 10 percent to 7 percent. And in the red,
13 renewables are going from four percent to 13
14 percent on an energy basis.

15 Next slide.

16 Now looking at renewables only on an energy
17 basis, in the red, solar is growing from 73 percent
18 to 95 percent in 2029.

19 Next slide.

20 With the significant growth of solar that is
21 forecasted, the utilities and FRCC are working to
22 understand the reliability considerations of this
23 change in resource. At the current levels of solar
24 penetrations, we haven't seen any significant
25 operational impact.

1 FRCC is working with our members this year to
2 conduct a solar study looking at the plan levels
3 for solar and sensitivity on those demands, and the
4 impacts on reliability.

5 In the meantime, utilities are developing
6 experience with these resources, understanding the
7 importance of solar output forecasting, and
8 integrating that into their generation dispatch to
9 ensure reliable and efficient operation.

10 We also have the ability to learn from other
11 parts of the country that already have high
12 penetration rates of solar. We do see in the data
13 that the utilities are assigning varying firm
14 capacity values to the utility solar in terms of
15 its contribution to peak.

16 Next slide.

17 Now turn to a discussion of Florida's natural
18 gas infrastructure.

19 For years, FRCC members have employed a
20 consultant to maintain a comprehensive gas
21 infrastructure model and a utility fuels database.
22 This allows the members to identify periodic
23 reliability studies where we examine different
24 infrastructure contingencies.

25 We also have the consultant perform studies to

1 see if the capacity is projected to be adequate
2 based on the forecasted infrastructure and
3 forecasted needs.

4 And based on these studies, I can report the
5 natural gas infrastructure capacity is on pace to
6 support planned generation additions.

7 On a realtime basis, we need to do system
8 conditions. FRCC coordinates regional responses to
9 fuel emergencies with utilities and the pipeline.

10 And to bolster reliability, utilities and FRCC
11 have a large percentage of gas generation with
12 alternate fuel capability of between 64 and 66
13 percent.

14 Next slide, please.

15 So I will just conclude by reiterating that we
16 show planned reserve margins above 20 percent for
17 the next 10 years, however, meeting the reserve
18 target is increasingly dependent on demand response
19 in the latter years. We show renewables increasing
20 from four to 13 percent due to growth in solar, and
21 that's on an energy basis. And then finally,
22 natural gas infrastructure capacity is on pace with
23 natural gas generation.

24 Next slide.

25 CHAIRMAN CLARK: All right. Thank you, very

1 much, Ms. Dochoda.

2 Any questions from Commissioners?

3 Commissioner Brown.

4 COMMISSIONER BROWN: Thank you. Appreciate
5 always hearing your presentation. You know, this
6 is kind of like our -- our game plan, right? It's
7 not binding, but it does give us a perspective
8 every year as we look at the future, so I really
9 appreciate it.

10 The thing that really kind of jumped out at
11 me, the first thing, was the demand forecast -- if
12 I can find it. It's somewhere in there. You have
13 projected demand --

14 MS. DOCHODA: By 10. By 10.

15 COMMISSIONER BROWN: That's it. Okay.

16 So you have projected demand being forecasted
17 to -- for 2020 to go below the 2019 forecast, yet
18 load forecast, of course, is above. Can you kind
19 of elaborate for us?

20 MS. DOCHODA: I'm sorry, just ask it one more
21 time. I couldn't hear the first part. Sorry.

22 COMMISSIONER BROWN: Certainly. It's probably
23 the lawnmower outside.

24 You have the demand forecast for 2020 being
25 projected from the '29 forecast to be a little bit

1 below, I think you said roughly one percent-ish low
2 for the demand from firm peak compared to your net
3 energy load forecast being above. If you could
4 just explain the disparity also from the prior
5 forecast.

6 MS. DOCHODA: Right. Now, that's -- so if you
7 were to look at Slide 10, which shows the demand,
8 and then Slide 11 I think is the energy that you
9 are speaking of, yes, exactly. The -- what we saw
10 in the energy forecast is that this year, there was
11 a slightly higher usage per customer from the
12 utilities in their forecast, and that was
13 attributed to the impact of the warmer temperatures
14 that we've seen that are now starting to impact
15 the -- you know, we do the normal -- normalized
16 weather and adjust the forecast, that's starting to
17 show up in a little bit higher usage per customer,
18 and so that's what's showing up in this energy
19 forecast.

20 COMMISSIONER BROWN: Sorry. Thank you.

21 You talk a little bit about the solar study
22 that you are going to be partaking in. Battery
23 storage, you have -- what was it -- 1,200 megawatts
24 projected?

25 MS. DOCHODA: 1,400.

1 COMMISSIONER BROWN: Okay. So of the 1,400,
2 could you tell us, are they all IOUs? Are they all
3 the IOUs?

4 MS. DOCHODA: It does include all the IOUs --
5 oh, no, I am sorry. You are talking batteries or
6 the solar? Sorry.

7 COMMISSIONER BROWN: Batteries.

8 MS. DOCHODA: Batteries. No, the batteries
9 are -- it's Florida Power & Light, and then I think
10 it's TECO. Let me -- let me check my notes. I
11 have that.

12 COMMISSIONER BROWN: Obviously, battery
13 storage is a huge component of the reliability
14 focus, and I am assuming that your solar study that
15 you are going to partake in is going to have an
16 aspect of that -- examining the effects of
17 batteries on -- on the reliability.

18 MS. DOCHODA: At this point, I believe our
19 study is really a thermal study, and so I don't
20 know that it will impact -- I don't know that it
21 will actually consider the battery interplay.
22 That's something that I will check for you and I
23 can follow up with you on.

24 COMMISSIONER BROWN: No, I think -- what is
25 the shoal study supposed to be based on, really?

1 Is it going to be talking about the varying firm
2 capacity values or --

3 MS. DOCHODA: So one of the things that the
4 study will look at is -- certainly we are seeing
5 this large increase certainly on a percentage basis
6 of solar in -- in the -- in the mix. And so
7 looking at geographically where that solar will be,
8 the impact on the grid of those locations, and
9 the -- the way that that will impact the -- the
10 load flow, that's what that study will look at.

11 And so we did a study a couple of years ago,
12 and that study was similar, but it just had much
13 less solar projected. So we did think we needed to
14 updated that to make sure that we have captured the
15 increase that they are showing us today.

16 COMMISSIONER BROWN: Absolutely. And I think
17 that that 1,400 megawatts of planned battery
18 storage, I think it would be helpful for the
19 Commission next year to kind of look at how that
20 has affected reliability, and possibly the firm
21 capacity attributes associated with solar. So I
22 would love to see the effects of the planned
23 battery, which is so important for solar.

24 Thank you.

25 One last question really, and it's kind of not

1 related to your -- your agenda here, but it -- we
2 had this come up I guess at an Internal Affairs
3 meeting, so I just wanted to know if you know
4 anything about the Southeast Energy Exchange
5 Market? And I know it's an energy imbalanced
6 market that has some of our parent companies, like
7 Duke Energy. I know it's not an RTO, nor does it
8 prohibit any companies from joining. It's
9 voluntarily -- voluntary wholesale, but do you know
10 anything about it and also why, you know, we are
11 not thinking of -- (inaudible) -- if at all.

12 MS. DOCHODA: I -- I know a small amount.
13 It's not something I am engaged in, but certainly
14 Duke is one of our members, and I have spoken with
15 our -- our members there.

16 What I do understand is that Duke Energy
17 Florida is not participating, but Duke Carolinas
18 would be. As I understand it, I don't know that
19 it's really an imbalanced market. I think it's
20 more of an exchange. An imbalanced market would
21 involve more security dispatch. And I do believe
22 this is, if I understand, more really of an
23 opportunity exchange when power -- when the -- the
24 parties have power available. And I am going to
25 describe it more of a bulletin board sort of

1 system. That's what I understood.

2 Now, there may be much more to that than what
3 I know, but that's my understanding.

4 COMMISSIONER BROWN: So you are not -- I am
5 just curious. I mean, Florida is not having
6 discussion with, Florida utilities aren't engaged,
7 there is no reason for us to be participants in
8 that?

9 MS. DOCHODA: To my knowledge, they are not
10 engaged in that.

11 COMMISSIONER BROWN: Okay. Thank you.
12 Thanks, Stacy.

13 MS. DOCHODA: Certainly. Thank you.

14 CHAIRMAN CLARK: Thank you, Commissioner
15 Brown.

16 Any other Commissioners have questions?
17 Commissioner Fay.

18 COMMISSIONER FAY: Yeah. Thank you, Mr.
19 Chairman.

20 Just real quick for you, Ms. Dochoda. On
21 Slide 13, you are discussing the forecasted summer
22 peak demand, and I think you were saying between
23 the projected firm peak demand and then the demand
24 with the adjustments made, it would be about a 6.1
25 percent, is that -- was that right?

1 MS. DOCHODA: Right. What we show on the
2 chart is really two pieces. So the -- if you go up
3 to the -- from the red line to the orange line,
4 which you can barely see below the yellow line,
5 that is the 6.1 percent. So that's the demand
6 response piece.

7 COMMISSIONER FAY: Okay.

8 MS. DOCHODA: And then that narrower band,
9 that's the contribution from the utility sponsored
10 programs, energy efficiency programs.

11 COMMISSIONER FAY: So that's the 1.4 in
12 between the yellow and the orange?

13 MS. DOCHODA: Correct.

14 COMMISSIONER FAY: Got you. Okay. Perfect.

15 All right. Thank you for that. That's all I
16 had. Thank you.

17 CHAIRMAN CLARK: Thank you.

18 Other questions?

19 Commissioner Polmann.

20 COMMISSIONER POLMANN: Thank you, Mr.

21 Chairman.

22 Ms. Dochoda, I am -- well, you mentioned,
23 first of all, that the forecasts were presented
24 back in the spring, and certainly developed earlier
25 than that, but not including impacts from COVID-19.

1 Can -- can you tell us, do you think there will be
2 enough information for these to be updated in the
3 coming year, or is that kind of information being
4 gathered now, or are we going to await updates that
5 would include that in sufficient detail for a
6 longer period of time, can you tell us?

7 MS. DOCHODA: Based on my discussions with the
8 utilities, they are working hard at trying to make
9 those evaluations right now. And I think it's -- I
10 am certain they will do what they can, but,
11 frankly, I think don't know just yet today whether
12 we will -- whether they will be able to capture
13 those impacts in next year's. I am sure they
14 will -- they will put in what they can estimate,
15 but I -- I think we are all living through really a
16 once in a lifetime first time ever event, so I
17 think what we will know by that time, you know, at
18 this point, I don't know that we can really say.

19 COMMISSIONER POLMANN: Looking at your slides,
20 I am trying to understand how far into the future
21 these -- these forecasts go, and given that this is
22 a 10-year plan, I guess I take that in certain
23 terms to be a 10-year forecast, is that -- am I
24 reading that correct?

25 MS. DOCHODA: That's correct. Uh-huh.

1 COMMISSIONER POLMANN: So as an example, just
2 looking at Slide 11 -- (inaudible) -- through 2029,
3 there are a number of different ways, of course, to
4 do forecasting, and it really depends on the data
5 and the type of models you use. But are there any
6 confidence bands, or -- or some kind of uncertainty
7 around these forecasts?

8 We -- we see here, you know, essentially
9 straight lines, more or less linear projections.
10 Is there any effort, or any understanding about
11 how -- how good of a forecast it is, or -- or is
12 this just something that we update every year?

13 MS. DOCHODA: So that's a good question.

14 Now, what I am showing you here is really
15 simply the sum of the utilities' forecast. So, no,
16 at FRCC, I don't attempt to, you know, do some sort
17 of aggregate sensitivity.

18 I really would need to refer you to the
19 utilities. I think each of them do a little bit
20 different things, and certainly, you know, there is
21 levels to look at around weather and -- and -- and
22 other aspects. So I would need to defer that
23 question, really, to the individual utilities.

24 COMMISSIONER POLMANN: Okay. So you are
25 taking information from the utilities and compiling

1 it?

2 MS. DOCHODA: Correct. Correct. It's not an
3 FRCC forecast. This is really the aggregate of the
4 utilities' forecasts from their 10-year site plans.

5 COMMISSIONER POLMANN: Okay. Well, then let
6 me -- my last question then would be to jump ahead
7 here in my notes then.

8 From your experience, we have a number of --
9 of items that you displayed for us, and I very much
10 appreciate it. This is a great compilation. You
11 have forecast of -- of need over the time period
12 that we are discussing, and then there is, further
13 on your presentation, generation mix among
14 different fuels, if you will, and so forth, the
15 gas, nuclear and the alternatives, and then there
16 is a schedule going out into the future.

17 So on -- on these different aspects, the time
18 period, and the need, and the -- and the fuel mix
19 and the schedule of projects, from your experience,
20 what is it that is typically revised here? It's
21 really the forecast that changes, or the fuel mix
22 that -- that the utilities suggest is -- is moving
23 the schedule of projects, the types of projects?
24 What have you seen, and what -- what might be, and
25 understand might, we anticipate going forward over

1 the next decade? Is there a lot of flux? Big
2 change? I know solar has changed a lot over the
3 past decade. What's -- what's typically your
4 experience? Is there anything typical or is this
5 all just some --

6 MS. DOCHODA: I was going to say, I think over
7 the last 40 years I have been in the industry, I
8 started when it was all about nuclear, and nuclear
9 was too cheap to meter, we were all going to be
10 nuclear, and so I -- I guess the thing I have
11 learned is whatever I think is going to happen the
12 next year is not going to be what's going to
13 happen. That's why we have reserve margins, and
14 all those things.

15 I guess what I would say, in the last couple
16 of years in these forecasts, you know, the notable
17 changes that perhaps are a little more startling,
18 or, you know, more sizable than what I might have
19 seen in my history is certainly around the solar,
20 and now batteries coming in.

21 If you would have asked me five years ago if I
22 thought I would see these numbers in Florida, I
23 would probably not have -- as a matter of fact, I
24 did say that I didn't think we would see them, but
25 here they are. And -- and so that, I think, is

1 very got notable, and I think you can see each of
2 the utilities working to bring those in. And, you
3 know, I think that's driven, certainly by
4 technology, by economics, and all of those factors
5 have made the forces competitive and -- and -- and
6 brought into the plan, you know, you have seen a
7 quick reaction to bring them in.

8 The other thing that I would say that I saw
9 this year, and that I haven't seen recently as
10 much, is the -- on the chart where we show the
11 additions and -- and retirements by year, saw a
12 little bit more gas being retired than I had in
13 recent years. That was another -- another change.

14 COMMISSIONER POLMANN: So -- so given your
15 comparison five years ago to today, I -- I
16 shouldn't ask you and hold to you what's going to
17 happen five years from now?

18 MS. DOCHODA: You are right. I would be
19 unworthy to predict that for you.

20 COMMISSIONER POLMANN: Yeah, you mentioned
21 nuclear from 40 years ago. I will simply mention
22 that I graduated college in 1979, which, you know,
23 I -- I studied engineering with many nuclear
24 engineers who I think maybe ended up working for
25 the Navy in nuclear engineering because that's all

1 they had available.

2 MS. DOCHODA: Yeah. I had a best friend who
3 came into the cafeteria that day and said, I think
4 I am changing my major.

5 COMMISSIONER POLMANN: Yeah. Yeah. That's
6 exactly what happened.

7 So -- well, thank you very much. It's a great
8 presentation.

9 MS. DOCHODA: Thank you.

10 COMMISSIONER POLMANN: Thank you, Mr.
11 Chairman, that's all I have.

12 CHAIRMAN CLARK: Thank you, Commissioner.

13 MS. DOCHODA: Thank you.

14 CHAIRMAN CLARK: Any other -- any other
15 questions for Ms. Dochoda?

16 All right. Thank you very much for your
17 presentation today.

18 Let's move on to the TECO presentation, Jose
19 Aponte. There we go.

20 Mr. Aponte, you are recognized.

21 MR. APONTE: Good afternoon, Commissioners,
22 members of staff and the rest of the audience.
23 Thank you for the opportunity to be here.

24 Can y'all hear me okay?

25 CHAIRMAN CLARK: We are having a little bit of

1 trouble hearing you. Can you speak up a little, or
2 get a little closer to the mic?

3 MR. APONTE: Yes. Is this better now?

4 CHAIRMAN CLARK: That's a little better. Yes,
5 sir.

6 MR. APONTE: Okay. Thank you.

7 My name is Jose Aponte, Manager of Resource
8 Planning for Tampa Electric Company. And today I
9 will be presenting on distributed energy resources,
10 and how they fit into our portfolio of new capacity
11 additions as shown in the 2020 10-year site plan.

12 Next slide, please.

13 Distributed energy resources, or DERs,
14 consider a variety of technologies of various sizes
15 that can stand alone or work together within a
16 network of integrated technologies to meet the
17 needs of both large and small energy users.

18 Some DERs have more market experience on
19 generation than others, and some more are in rapid
20 stages of development than others.

21 Historically, generation was typically
22 consolidated at a single location to maximize
23 efficiency and minimize support costs. Distributed
24 generation, on the other hand, is strategically
25 located based on the availability of the energy or

1 fuel source, or strategically placed for system
2 benefit avoided in for continuous operations.

3 Distributed power modalities are today more
4 widely available than ever, have come down in price
5 and have improved the efficiency. They provide
6 benefits of being distributed while competing
7 economically with centralized generation.

8 Next slide, please.

9 Tampa Electric's generation portfolio has
10 evolved, and continues to do so. With the Polk 2
11 combined-cycle conversion completed in 2017, the
12 SoBRA solar capacity additions about to be
13 completed in 2021 and the Big Bend 1 Modernization
14 project expected to be completed in 2023, they have
15 provided TECO with abundant low-cost energy.
16 Additionally, their reserve margin needs have
17 shifted to the winter due to the absence of firm
18 solar capacity in the early morning hours during
19 the winter season.

20 We looked at various alternatives for meeting
21 the winter capacity need. One alternative we
22 considered was the deployment of large peaking
23 combustion turbines at existing central stations.
24 Due to our modest low growth that our systems
25 experienced, this approach, although viable, would

1 result in having excess winter capacity in the year
2 the unit goes in service until the peak demand
3 grows and the reserve margin declines.

4 Another alternative we evaluated, and a more
5 streamline approach for our system is to meet
6 winter peaks with smaller distributed energy
7 resources that allow for a more agile deployment of
8 capacity that better matches the reserve margin
9 need. As a result, our system is expected to
10 greatly benefit from flexible, quick response
11 peaking capacity that reciprocating engines and
12 battery storage delivers.

13 Next slide, please.

14 Even with the addition of incremental DSM
15 programs, SoBRA, solar and Big Bend Modernization,
16 Tampa Electric still has a winter capacity need
17 that grows every year. With a modest 40 to 50
18 megawatts a year peak demand growth, smaller
19 distributed energy capacity additions is a viable
20 and favorable option for our system.

21 Next slide, please.

22 This slide shows various benefits that we
23 evaluated. The expansion plan alternative on the
24 left demonstrates the winter reserve margins under
25 a -- under a centralized generation plan approach,

1 versus the one on the right, which shows the
2 reserve margins under a distributed generation
3 approach.

4 As you can see, the distributed generation
5 plan on the right allows for a tighter reserve
6 margin closer to the 20 percent.

7 One of the benefits of the smaller, more
8 streamlined capacity additions, is that it gives
9 the distributed generation plan more flexibility
10 and adaptability in the event of changing
11 circumstances, such as advancements in technology,
12 a decrease in technology costs, changes in fuel
13 pricing and load forecast, and others.

14 Next slide, please.

15 This pie chart demonstrates the capacity mix
16 by percent addition the 2020 10-year site plan for
17 future capacity additions. Solar and battery
18 storage accounting for approximately 74 percent of
19 the total new capacity additions.

20 Next slide, please.

21 This graph illustrates Tampa Electric's
22 approach. It illustrates a sample summer
23 generation dispatch with centralized and
24 distributed generation resources.

25 The dark blue area is primarily low cost,

1 highly efficient natural gas combined cycle running
2 flat line around the clock to maximize efficiency,
3 reliability, and as a result, cost savings.

4 Solar fills the bulk of the peaking need
5 during the long sunny days of Florida.

6 Energy storage is used to store energy at
7 night, keeping the natural gas combined cycle units
8 at a very efficient rate, and the solar in the
9 morning then is charging the energy in the evening
10 as the load picks up at the same time that solar
11 energy is declining.

12 Peaking assets such a reciprocating engines
13 provide the flexibility, reliability to react
14 quickly as imbalances arrive sporadically during
15 the day.

16 TEC -- the TEC system benefits from all of
17 these components working together to simultaneously
18 lower fuel costs and build reliability.

19 Next slide, please.

20 The following are some of the value components
21 considered when we evaluated distributed energy
22 resources. Just to name a few, you see an increase
23 in efficiency and lower fuel cost as a result;
24 decreasing transmission and distribution line
25 losses from placing generation closer to the load.

1 We see an offset of capacity and demand charges by
2 peak savings. We see enhanced ancillary
3 services benefit; environmental benefits; a
4 potential deferral of transmission and distribution
5 investments, and then increase in resiliency and
6 reliability.

7 But what's really more, the real potential of
8 DERs is the stacking of all of these value streams
9 inside an optimized portfolio, with all the
10 component -- components working in concert to
11 maximize the total benefits.

12 Next slide, please.

13 Tampa Electric has selected a mix of elements
14 that provides a robust, reliable and resilient
15 cost-effective expansion plan. As a portfolio of
16 distributed energy resources consisting of the
17 utility-scale solar, battery storage and
18 reciprocating engines, it's a favorable option, and
19 it's in the best interest of Tampa Electric Company
20 customers.

21 This resource has synergies that work in
22 concert to provide cost savings, operational
23 flexibility, environmental and reliabi--
24 reliability benefits, and value to include system
25 reliability.

1 The geographical flexibility and quick
2 deployment timeframe of DERs enables TEC's system
3 to adapt to changing needs.

4 To summarize, distributed energy resources fit
5 Tampa Electric's need. They provide a better match
6 for the load growth. They provide operational
7 flexibility and highly reliable cost-effective, and
8 can be easily adapted to changing circumstances.

9 Thank you again for allowing me to be here,
10 and this concludes my presentation.

11 CHAIRMAN CLARK: Thank you, Mr. Aponte.

12 Do Commissioners have questions for Mr.
13 Aponte?

14 Commissioner Brown, begin with you.

15 COMMISSIONER BROWN: Thank you.

16 Just a comment. I mean it's a different
17 approach to presenting a 10-year site plan today,
18 Mr. Aponte, and I -- I like the -- the focus on the
19 distributed energy resources. It's definitely a
20 novel approach to kind of showing what -- how you
21 have analyzed your projections on the DER side.

22 What is the percentage on new additional
23 additions other than solar for Tampa Electric over
24 the -- the 10-year horizon?

25 MR. APONTE: Yes. So more utility scale solar

1 accounts for about 54 percent of the new capacity
2 additions over the 10-year horizon. Right after
3 the solar, about 20 percent of it is battery
4 storage. And then about 60 percent is natural gas
5 reciprocating engines, and then about nine percent
6 or so are existing -- existing system enhancements,
7 efficiency type of enhancements existing
8 combined-cycle stations --

9 COMMISSIONER BROWN: Upgrades?

10 MR. APONTE: Yes.

11 COMMISSIONER BROWN: Well, thank you, Mr.
12 Aponte. I love what your company is doing to help
13 improve the environment, and excited about the
14 future for -- for you all.

15 MR. APONTE: Thank you, Commissioner Brown.

16 CHAIRMAN CLARK: Commissioner Fay.

17 COMMISSIONER FAY: Thank you, Mr. Chairman. I
18 think I will be really quick.

19 Mr. Aponte, Slide 7, just help me understand
20 this. I am guessing we've got the time periods
21 listed out here, and then at the beginning you have
22 got the batteries charging and then the solar
23 generation. Explain how that works.

24 MR. APONTE: Yes, that is correct,
25 Commissioner Fay. As you can see by -- by having

1 to charge the batteries in an optimum -- optimum
2 time, which is in the off peak when the energy
3 costs are lower, it helps also keep existing
4 base-load type of generation, mostly
5 combined-cycle, at a better point in the reactor at
6 a more efficient operation. By having to charge
7 the batteries, you accomplish that with the
8 existing stations. Then as the solar generation
9 starts to ramp up, the combined cycle units stay
10 flat. And then as the solar generations start to
11 decline, we continue to keep the combined cycle
12 units flat, and then we discharge the batteries to
13 account for an hour or two worth of peaking type of
14 need in the early evening of the day.

15 COMMISSIONER FAY: Great. I appreciate that.

16 And then I also just want to thank you for
17 your -- your Slide 8, the value type, I think there
18 is also a lot of discussion as to the financial
19 component, but you listed a bunch of things on here
20 that touch on the resiliency and optimization, I
21 think those are key components for us to include,
22 and so I appreciate you including that.

23 Thank you so much.

24 MR. APONTE: Thank you, Commissioner Fay.

25 Appreciate it.

1 CHAIRMAN CLARK: All right. Mr. Aponte, I
2 have a couple of just questions, observations.

3 I am -- I am interested in your capacity needs
4 in the winter beginning in 2022. As I understand
5 the -- the slides, you begin to have reserve margin
6 concerns in the wintertime in 2022, which you
7 propose to address with -- with solar as your
8 primary source of addressing those margins, is that
9 correct?

10 MR. APONTE: Well, actually the winter
11 capacity needs are not going to be met with the
12 solar due to the lack of capacity value in the
13 winter. So our plan is to fill the winter capacity
14 need with the combination of battery storage and a
15 small portion of reciprocating engines, natural
16 gas-fired.

17 CHAIRMAN CLARK: What's -- are you powering
18 your battery storage with simple cycle CT, or are
19 you using solar to power your batteries?

20 MR. APONTE: It's is a combination. We
21 optimize them, and it will be basically all of the
22 above as -- as the system sees the most optimum way
23 of charging, that's how we do it. And it's
24 certainly on a -- on a project-by-project basis.

25 CHAIRMAN CLARK: Okay. So -- so we wouldn't

1 be looking at, for example to -- to meet your
2 demand needs for the wintertime, a solar farm that
3 has battery storage in it and that being your
4 primary driver to offset your winter reserves,
5 right?

6 MR. APONTE: We -- we are actually looking at
7 that as one as an option. Yes, sir, that is one of
8 the options we are looking at.

9 CHAIRMAN CLARK: So how do you -- how do you
10 justify -- in terms of the cost, you are saying
11 that's a cost-effective solution. If you are
12 looking at basically, I assume from FRCC's
13 presentation, 42 percent factor, capacity factor
14 awarded to solar and then add the battery cost in,
15 you can still get that in more effective than a
16 simple cycle CT?

17 MR. APONTE: Well, that's -- that's a great
18 we. And the new way of looking at our integrated
19 resource plan is that we have to look at it at the
20 portfolio basis, not just looking at one particular
21 capacity addition in isolation, because all of the
22 capacity additions that we show complement each
23 other in many ways, and -- and so looking at the
24 whole portfolio as -- as -- as a one big entity as
25 demonstrated cost-effectiveness, just looking at

1 just one specific unit component by itself.

2 CHAIRMAN CLARK: Okay. My last question,
3 your -- and I read in here you are looking at, I
4 guess, Sterling engine as a -- is this some new
5 development, new technology, or -- I realize
6 Sterling engines have been around since the 1800s,
7 but is there something that you guys have that --
8 that's going to make this an effective model?

9 MR. APONTE: No, actually, it's not. That
10 Slide No. 2 was more of an inflow of some high
11 level screening that we did on different types of
12 technology. But by far, the reciprocating engine
13 has gone through a lot of very important
14 developments in terms of it efficiency, costing,
15 flexibility, that -- that is the number one option
16 for a natural gas type of distributed --
17 distributed generation asset.

18 CHAIRMAN CLARK: And that leads to my final
19 question, is distributed generation, and making
20 sure we are all -- I think that term probably
21 catches some folks and has different meanings, but
22 distributed generation, as opposed to central
23 generation, give me your take on -- on how that
24 operates in the real world.

25 MR. APONTE: Yeah. Sure.

1 Distributed generation would be, like I said,
2 any combination of recip engines, small
3 utility-scaled solar, battery storage,
4 strategically located at closer to the load in
5 order to provide benefits such as congestion
6 relief, perhaps some deferral of DMD investments,
7 certainly a high resiliency and high reliability
8 component, which brings a lot of benefit because
9 you won't have to 100 percent rely on your central
10 station in the event of a -- of an unwanted event,
11 could you -- you could have pockets of distributed
12 generation close to your territory that will
13 definitely help with the types of customer service
14 that we are looking for.

15 CHAIRMAN CLARK: Have you ever looked at --
16 has TECO ever explored the possibility of
17 dispatched generation from customers that had
18 on-site combustible generators?

19 MR. APONTE: Yes. We are looking at those
20 options also.

21 CHAIRMAN CLARK: Do you have a plan in pla--
22 or do you have that system in place now, or is it
23 something you are looking at?

24 MR. APONTE: We have a little bit of that in
25 place now.

1 CHAIRMAN CLARK: Any idea how many megawatts
2 you can dispatch?

3 MR. APONTE: I want to say about 40 or 50
4 megawatts.

5 CHAIRMAN CLARK: Wow, that's pretty good.
6 Great, thank you very much.

7 Any other questions?

8 All right. Let's move it along.

9 Thank you very much, Mr. Aponte.

10 Next is --

11 MR. APONTE: You are welcome, sir. Thank you.

12 CHAIRMAN CLARK: -- Mr. Sim from FPL and Gulf
13 Power.

14 Mr. Sim, are you on the line?

15 DR. SIM: Yes, sir.

16 CHAIRMAN CLARK: We hear you, but haven't seen
17 you yet. There we are. Welcome.

18 DR. SIM: Good afternoon, Mr. Chairman and
19 Commissioners. It's -- it's a pleasure to be here
20 today to speak on behalf of Gulf and FPL regarding
21 our combined 10-year site plan.

22 Because we are discussing both Gulf and FPL,
23 let me make a point off the bat that perhaps needs
24 to be made, and that is we do not do a singular or
25 special resource planning exercise in order to

1 prepare the 10-year site plan each year. That's
2 been our practice at FPL, and it continued this
3 year now that we've rolled in Gulf.

4 Instead, our resource planning process is a
5 continual one. We are constantly doing planning.
6 And when it comes time to begin to prepare to put
7 the 10-year site plan document together, we simply
8 freeze assumptions, freeze the analyses, extract
9 them, and begin putting them in the reporting
10 format that is called for in the site plan.

11 So in that sense, there is not a 10-year site
12 plan process to speak. It's simply a reporting
13 document for work that is ongoing at FPL.

14 If I could have the next slide, please.

15 Now, what is different this year is the fact
16 that now that Gulf is under the NextEra Energy
17 umbrella, we are presenting a resource plan for the
18 first time of an integrated FPL and Gulf system.
19 And we have been undertaking activities to
20 integrate the two systems with the idea being that
21 we will have a single operating electrical system
22 in 2022.

23 Now, the resource planning for both companies
24 now, and for the integrated system later, is being
25 done under the FPL hierarchy group, or shop.

1 Before, it was being done for Gulf by the Southern
2 Company Services group. Now, the operation of the
3 Gulf unit, however, is currently being performed by
4 Southern Company, and this will continue through
5 2021, which sets up a somewhat awkward situation of
6 we are doing the planning and they are doing the
7 operating when it comes to Gulf's systems, but it
8 is -- it is working with minimal difficulty at this
9 point fortunately.

10 Now, one of the features that we will talk
11 about in a moment is we have announced plans for
12 the North Florida Resiliency Connection, or NFRC
13 transmission line, that will connect the FPL and
14 Gulf systems starting in 2022.

15 And what I am hoping to do in this
16 presentation is not present too many numbers, but,
17 instead, give you an overview of the approach.
18 Kind of a peak behind the scenes as to what
19 happened this past year in regard to the resource
20 plan for the integrated system.

21 If I could have the next slide, please.

22 What we actually did is we carried out three
23 different resource planning analysis. What we call
24 steps one, two, three. And steps one and two were
25 sort of interim steps to get to Step 3.

1 In Step 1, we were handed the -- the Gulf
2 system and said, let's see how we can improve it.
3 So we initially look at it as a stand-alone
4 utility, that there was no longer any commitment
5 from Southern company to provide energy or capacity
6 to it. And what we wanted to see is how much
7 system improvement could be made to the Gulf system
8 now that it was separate, on its own. And so what
9 we did is developed a optimized resource plan for
10 Gulf, which I will get to in a moment.

11 Now, the importance there was to see how much
12 improvement we could bring for Gulf's customers
13 through those activities, and also to provide a
14 starting point with this new optimized plan for
15 Gulf from which to consider the economics and the
16 need for the NFRC transmission line.

17 So in Step 2, we assumed that the NFRC line
18 was in place. We had an optimized FPL only
19 resource plan, and we assumed that Gulf's customers
20 now have access to the much larger and more fuel
21 efficient FPL system. So we then took advantage of
22 that and reoptimized a new resource plan for Gulf.

23 So what we wanted to see was were the
24 projected benefits in excess of the projected costs
25 of the NFRC line. And also where we ended up here

1 was a second optimized resource plan for Gulf, a
2 resource -- an optimized resource plan for FPL, and
3 that was the starting point to see if it made sense
4 to then integrate the two systems into a single
5 entity. And that resource plan, again optimized
6 one more time, but this time for both FPL and Gulf,
7 that became the resource plan that's presented in
8 this year's 2020 10-year site plan.

9 The next slide, please.

10 Let's talk a little bit about Gulf. The table
11 we are showing here is prior to 2020, this was
12 the -- kind of an overview of the Gulf generating
13 units. And what stands out to us is the three
14 yellow highlighted lines. Gulf has three
15 generating units, or resources, that together
16 comprise 60 percent of their entire generating
17 capacity, and one of them, the last row down there,
18 is the Shell PPA with a power purchase agreement
19 from a combined cycle in Alabama that makes up
20 fully 26 percent of their entire generating
21 capability.

22 For example. The largest unit on FPL's
23 system, the Ft. Myers unit, is an 1,800-megawatt
24 unit, so that comprises about seven percent of our
25 total generation.

1 So it's an unusual system on a stand-alone
2 basis, and with no commitments, firm commitments or
3 capacity or energy, our analysis showed that if
4 this stayed a separate stand-alone system, it would
5 require a reserve margin of about 30 percent.

6 Go to the next slide, please.

7 So in Step 1 of the analysis where we are
8 trying to optimize the stand-alone Gulf system, we
9 started off looking at a variety of resource
10 options. And the first one we looked at was pretty
11 similar to the way -- or to the resources that had
12 shown up in the 2019 10-year site plan when Gulf
13 was still part of Southern Company. And Those were
14 new combustion turbines and combined cycles.

15 Now, in addition, the other options we looked
16 at was early retirement of Gulf's ownership of the
17 two Daniel coal units in Mississippi. We looked at
18 essentially 75 megawatts solar photovoltaic
19 facilities, converting a couple of the Christ units
20 from coal to gas, upgrades to the Lansing Smith
21 combined cycle and battery storage facilities of
22 several different variations.

23 Now, we analyzed each one of these options
24 sequentially and in total, and what we found was
25 there was a role for each of them in this optimized

1 plan for a stand-alone Gulf system. There was
2 considerable economic savings projected from these
3 improvements, and the resource plan that resulted
4 from this interim step became the starting point
5 for the Step 2 analysis, where we were electrically
6 connecting the two systems, but the two systems
7 would stay as separate utility systems.

8 Go to the next slide, please.

9 Okay. And here's a rough depiction in the
10 inset of the route of the NFRC line. It goes
11 through six counties in northern Florida, 176
12 miles. It will allow bidirectional transfer either
13 direction of up to 850 megawatts, an in-service
14 date of 2022. And the primary feature is it gives
15 the Gulf customers access to the much larger FPL
16 system.

17 FPL is about 10 times the size of Gulf's
18 system. And the fuel efficiency of our units, we
19 have an average fossil fleet average heat rate of
20 about 6,900. The Gulf fleet currently is about
21 9,600. So this would allow access to much cheaper,
22 much more fuel efficient energy that could flow
23 into Gulf.

24 Next slide, please.

25 Now, we once again reoptimized a resource plan

1 for Gulf, and in doing so, we were trying to
2 address two questions. First, taking into account
3 the cost of the NFRC line, were the benefits to
4 Gulf's customers greater than the cost of the line?
5 And the answer to that question was yes. So it
6 made sense to try to arrange for a transmission
7 route from FPL to Gulf.

8 So the second question was, is it cheaper to
9 build the NFRC line than it is to pay the projected
10 cost of wheeling through neighboring utility
11 systems, which is Southern Company? The answer to
12 this question is also yes. It was less expensive
13 to build the line.

14 So the NFRC line was projected to be a
15 cost-effective addition, and we walked away from
16 Step 2 analysis having the line -- assuming the
17 line is in place, having a reoptimized, stand-alone
18 separate utility system for Gulf and an optimized
19 plan for FPL alone.

20 And go to the next slide, please.

21 Okay. As we started in on Step 3, there were
22 a number of considerations that the fact that we
23 were trying to integrate two systems 170 miles
24 apart brought into play, and one of them was
25 coincidence in the load. Both systems currently

1 peak at the 4:00 to 5:00 p.m. hour, but FPL is in
2 the Eastern Time Zone, Gulf is in the Central Time
3 Zone. So the two areas do not experience peak
4 loads simultaneously. Because FPL is about --
5 system is about 10 times larger an Gulf, on an
6 integrated basis, FPL drives the -- the peak hour,
7 which is at 4:00 to 5:00 p.m. Eastern Daylight time
8 in summer. So this coincident peak is about 100
9 megawatts less than what the sum of the peak in
10 Gulf and the peak load in FPL would otherwise be.

11 Now, from reliability planning, with an
12 integrated system, we no longer have to have a
13 20-percent reserve margin, which we came out of
14 Step 2 with the line in place for Gulf and a
15 20-percent reserve margin for FPL area alone. What
16 we needed was a 20-percent reserve margin for both
17 areas simultaneously.

18 And both of these considerations led to the
19 fact that we needed somewhat fewer resources for
20 the single integrated system than what we would for
21 the two separate systems. And this is an argument
22 in favor of integrating the systems, but there was
23 more.

24 If we could go to the next slide, please.

25 Okay. In regard to solar, the fact that Gulf

1 is 170 odd miles west of FPL's area, at the 4:00 to
2 5:00 p.m. hour eastern time, when the integrated
3 system peaks, the sun is a bit higher in the sky if
4 solar is sited in Gulf's area than it is in FPL's
5 area. So what that means, that all else equal, you
6 have greater output for solar sited in Gulf than
7 you do in FPL, and it gets a slightly higher firm
8 capacity value. By that, I mean the percent of the
9 solar nameplate rating that we account for as firm
10 capacity in the reserve margin analysis. So there
11 was an advantage to siting solar in Gulf for the
12 benefit of both -- customers in both areas.

13 So based on these and some other
14 considerations, we came up with an optimized
15 resource plan for the integrated and FPL and Gulf
16 system, and we projected the cost for that versus
17 the sum of the cost for the optimized plans coming
18 out of Step 2 for Gulf and for FPL.

19 Go to the next slide, please.

20 And what we found was that the resource plan
21 for the integrated system was projected to be lower
22 than it was for the sum of the two stand-alone
23 resource plans.

24 And before I go on to the next bullet, which
25 provides some of the key features that are found in

1 this integrated resource plan, let me just mention
2 that load growth on FPL's system is still
3 significant -- to the FPL Gulf system, I should
4 say. The number of customers that we are going to
5 serve -- the increase in number of customers
6 rather -- is about 1.2 million, and the summer peak
7 load projected would be about 5,000 megawatts.

8 Now, from that 5,000 megawatts, we have about
9 2,000 megawatts of energy efficiency through codes
10 and standards, and through utility programs that
11 are lowering the 5,000 increased load, megawatts of
12 load, to about 3,000. And to meet that, some of
13 the items that are sub-bullets here, we are adding
14 about 9,000 megawatts of solar going forward, which
15 will bring us to about 10,000 megawatts of
16 nameplate solar by 2029. We are adding about 1,200
17 megawatts of batteries by 2029.

18 One of the things we found out was that
19 because Gulf had -- the Gulf area has no fast start
20 capability, and very little fast ramping
21 capability, there was a need to put fast start,
22 fast ramp capability in Gulf, both for reliability
23 planning and for operational planning. So we are
24 building four 230-odd megawatt combustion turbines
25 in the Gulf area that will come in on 2022, and

1 with the idea being that those will be in place
2 when the NFRC line comes in. In part to make up
3 for the possibility of the transmission line being
4 unexpectedly lost.

5 Now, the last item here, we have combined
6 cycles that worked in the 2019 site plan, one for
7 Gulf and one for FPL. Those have now been deferred
8 out of the 10-year window. And in addition, we
9 have three coal units that are being retired by
10 2022.

11 If you could go to the next slide, please.

12 Okay. This was -- this data was presented in
13 the 10-year site plan, but not in this format. We
14 thought this might be helpful to show.

15 This shows the 8,800 odd megawatts of solar
16 that we are adding from '22 through 2029. It shows
17 in 2020 and 2021, this is primarily the, for FPL,
18 the SoBRA and solar together. We are seeing three
19 75-megawatt solar facilities in Gulf being added.
20 And then for three straight years, we are adding
21 six 75-megawatt per year in Gulf to take advantage
22 of this higher firm capacity value.

23 At that point we are straining the
24 transmission system inside of Gulf where these
25 solar facilities are sited, and it becomes more

1 cost-effective to switch the solar over to the FPL
2 area, which you see in the first -- first column
3 there.

4 By the end of 2029, we are projecting about
5 10,000 megawatts of total nameplate solar, and this
6 allows FPL to meet its 30 by '30 objective that was
7 announced over a year ago.

8 If we go to the last slide, please.

9 In conclusion, each of the three steps that we
10 went through, the interim Step 1 and Step 2, and
11 then the final Step 3, we found significant
12 enhancements to the system that were resulting in
13 cost savings coming out of all three of those
14 analysis steps.

15 And our analysis to try to continue to improve
16 the Gulf and FPL system is continuing as usual, and
17 it's an ongoing continual resource planning process
18 here. So with updated forecast and assumptions,
19 our analysis are continuing, and the outcome of the
20 new analysis will be presented to the Commission in
21 the 2021 10-year site plan.

22 And that concludes my presentation. I am open
23 to questions, please.

24 CHAIRMAN CLARK: Thank you, Mr. Sim.

25 Any questions for Mr. Sim?

1 Commissioner Brown.

2 COMMISSIONER BROWN: Thank you.

3 Thank you, Dr. Sim, for the in-depth analysis
4 of the integration. I think it was kind of like
5 TECO, it was a different approach to your
6 presentation on the 10-year site plan, but I think
7 very relevant, so I appreciate it.

8 I got to give you all some kudos to all of the
9 solar contributions and battery storage that you
10 are doing to advance the ball in our state. You
11 are -- you are making a huge difference, so big
12 kudos to y'all.

13 That being said, let's talk about this
14 integration of the NFRC line and -- and where we
15 are.

16 You mentioned that having that NFRC line will,
17 I guess, obviate the need to have a 20-percent
18 reserve margin for the utilities. Is that what you
19 said? Did I hear that right?

20 DR. SIM: In part yes. Let me try to clarify.

21 If we are looking at Gulf as remaining forever
22 a stand-alone utility, with the size of their
23 generating unit, the forced outage rates of their
24 generating units, a 30-percent reserve margin,
25 which is high by historical standards, but needed

1 for that particular situation would be required.
2 But with access to FPL's much larger system of
3 generating units, no longer need 30 percent, we are
4 down to 20 percent, which was part of the savings
5 for the NFRC line.

6 COMMISSIONER BROWN: So where are you in the
7 NFRC process?

8 DR. SIM: Proceeding. There are a number of
9 agreements that have been made in regard to
10 right-of-way acquisition. And my understanding is
11 in each of the six counties through which the line
12 will pass, there is a schedule for eminent domain
13 hearings that will be occurring from September
14 through roughly mid-December --

15 COMMISSIONER BROWN: I am so --

16 DR. SIM: -- plant --

17 COMMISSIONER BROWN: -- it's a long process, I
18 know.

19 DR. SIM: It is. And -- but we are -- we are
20 making progress, and we are confident the line will
21 be in in 2022.

22 COMMISSIONER BROWN: Okay. What -- and
23 forgive me if I made may be naive here, but what
24 role does the Commission have in approving the NFRC
25 line, and just curious if you have any information

1 on that, or if our staff does?

2 DR. SIM: My understanding is that cost
3 recovery for the NFRC line will go through the
4 Commission.

5 COMMISSIONER BROWN: So as part of the rate
6 case, the -- that will be something that we will
7 consider?

8 DR. SIM: Yes, that's correct.

9 COMMISSIONER BROWN: Okay. So I -- I expect
10 we will have a lot of discovery on -- on it, and of
11 course the benefits and the projected cost of the
12 line, and everything that you just kind of
13 addressed in -- in more detail, and we will hear
14 from you probably directly.

15 DR. SIM: I am not sure whether that's a
16 positive or negative for any of the parties, but
17 yes, that's probably the case.

18 COMMISSIONER BROWN: Well, I will have -- I
19 will have ample questions for you on the benefits
20 of that, and whether FPL foresaw when they
21 bought -- or NextEra, I guess, bought Gulf, whether
22 NextEra foresaw having that -- that integrated
23 utility, which, you know, is -- is an important
24 component of having a unified utility and grid in
25 our state, so I think it's an important attribute,

1 but I -- I will so many questions for you during
2 that, so be prepared.

3 DR. SIM: Thank you for the forwarning, will
4 look forward to it.

5 COMMISSIONER BROWN: Thank you. Thank you for
6 presenting today.

7 CHAIRMAN CLARK: Thank you, Commissioner
8 Brown.

9 Any other Commissioners have questions?

10 All right. Let's move right along.

11 Thank you, Dr. Sim. We appreciate you being
12 here today.

13 DR. SIM: Thank you, sir.

14 CHAIRMAN CLARK: Moving to the SACE
15 presentation, Maggie Shober. Ms. Shober, are you
16 on the line? Thank you.

17 MS. SHOBER: Yes, I am. Can you hear me okay?

18 CHAIRMAN CLARK: Yes, we can hear you fine.

19 MS. SHOBER: All right. I will just wait
20 until my slides come on up.

21 All right. So I am Maggie Shober, Director of
22 Utility Reform at the Southern Alliance for Clean
23 Energy.

24 On to the next slide.

25 So SACE, for anyone who is not familiar by

1 now, we work all across the southeast, and we have
2 been working in clean energy in Florida for
3 decades, and we focus on energy choices to ensure
4 clean, safe and healthy communities.

5 One way that we engage on clean energy issues
6 across the region is through resource planning.
7 And I am also speaking as someone who, in my
8 previous job, I was on the modeling side, and did
9 portfolio optimization and energy markets modeling
10 for resource planning policy analysis and other
11 applications. So that's why you are seeing me
12 today instead of, you know, one of my SACE
13 colleagues that you might have seen present in the
14 past.

15 So the next slide is where we are going today.
16 I am going to go over Florida's 10-year site plan
17 process compared to some other states, and show
18 how, you know, Florida is an outlier in this -- in
19 this instance, and that that has led to
20 overreliance on gas, and we see some -- some
21 serious concerns with this overreliance on gas.
22 And then I am going to talk a little bit about
23 alternative resources, particularly energy
24 efficiency and solar, and then, you know, go
25 through a few other areas where we see

1 opportunities for lowering the -- the overall
2 utility costs and -- and have a recommendation for
3 you.

4 So on the next slide.

5 So starting out, like I said, Florida's
6 10-year site plan process has led to an
7 overreliance on gas. We see three main concerns
8 with this. The first is costs, an increase in
9 costs that get, you know, passed on to ratepayers.
10 We see a flatlining in CO2 emissions, and we see an
11 increased risk of stranded asset -- an increase in
12 exposure to stranded asset risks.

13 I do want to note here that we, you know, we
14 understand and recognize that gas has played an
15 important role in Florida's power sector over the
16 past decade. By employing new and efficient gas
17 technologies, Florida utilities were able to retire
18 coal power plants, and thus, reduce carbon dioxide
19 emissions while renewable energy technologies were
20 still more expensive, but as a result -- so gas as
21 often been described as a bridge fuel, and that has
22 aided in this transition from coal to renewables,
23 and we don't want to minimize the impact gas has
24 had historically, but we do recognize that bridges
25 don't go on forever, with renewable costs to

1 control improvements and a -- you know, which is a
2 trend that shows no sign of stopping that we -- you
3 know, that it is now time for Florida utilities to
4 recognize we have reached the end of the gas
5 bridge, and from here on out, to invest in
6 renewables, energy efficiency and storage for the
7 future, but I will dig in a little bit deeper into
8 these three issues on -- starting on the next
9 slide.

10 So what we mean by 10-year site plan process
11 as an outlier, here's a continuum of utility
12 resource planning. I won't go through all of these
13 in the interest of time, but some examples on the
14 slide show, you know, more traditional IRP
15 processes, which include at least some feedback in
16 a duration between stakeholders, regulators and
17 then the utilities that are, you know, doing the
18 IRP.

19 These can also include modeling that allows
20 energy efficiency to compete directly with supply
21 side resources. This has been done very
22 successfully in the northwest, leading to
23 significant bill savings for customers.

24 And then further, you know, on the continuum,
25 All-Source Procurement can be implemented. This

1 has been done successfully in Colorado, is the
2 example that I have up there. And All-Source
3 Procurement is a process that uses competition in
4 the procurement process to lower overall utility --
5 utility costs.

6 And then, of course, all the way to the right
7 on that continuum is competitive markets, which
8 uses, you know, price signals instead of this type
9 of a modeling process necessarily.

10 All right, on the next slide.

11 So 10-year site plan process, some of the main
12 issues with this that we see compared to, you know,
13 what's going on elsewhere are that, you know, lack
14 of alternatives presented, you know, a lack of data
15 assumptions and scenarios available, but primarily
16 that stakeholders and the Commission, you know, the
17 main role is a reaction and not an engagement in
18 the development of the plan itself.

19 So with all of this in mind, we are actually
20 making a recommendation to you, to the Commission,
21 to hold a workshop just to, you know, learn more
22 and explore how Florida's resource planning process
23 compares to others, you know, what are some other
24 examples of what states and utilities are doing in
25 other parts of the country -- in other parts of the

1 region and other parts the country.

2 On the next slide I will get a little bit more
3 into those three main issues we have with the
4 overreliance on gas.

5 The first is economic. So at this point,
6 energy efficiency, solar and soon to be storage is,
7 you know, the more cost-effective investment, and
8 so we see overreliance on gas and the build --
9 particularly the building of new gas resources, new
10 gas capacity has increasing costs -- increasing
11 utility costs that are then passed on to
12 ratepayers.

13 The other economic issue here that's on the
14 right of the slide is that Florida does not have
15 native gas supplies, so, you know, every dollar,
16 you know, that's spent on fuel is sent out of
17 state. Currently, that's to the tune of four- to
18 six-billion-dollars a year, and with increases to
19 gas capacity and increased, you know, generation
20 from gas, that that number can rise in the future.

21 And then on the next slide, we also see an
22 issue in overreliance from -- on gas from a climate
23 perspective and an emissions perspective. So you
24 can see the blue line is historical CO2 emissions
25 starting in 2010 from all of Florida utilities,

1 and, you know, that has been going down.

2 And current projections, the -- the red line
3 is the current projections under the, you know,
4 2020 10-year site plans, and so we do see those
5 continuing to decline through about 2025, you know,
6 they are not as steeply, and then they flatten out.
7 And part of this is because of this -- again, this
8 overreliance on gas. You know, gas does have a
9 less CO2 per megawatt hour than coal, but it still
10 emits CO2 and, therefore, you know, when the state
11 has 70 percent of generation from gas, as it does
12 today, you know, you are not going to be able to
13 bring that CO2 emission rate much, you know, lower
14 than the emission rate of a gas plant, and so
15 that's why we see it flattening out.

16 The green and the orange path lines there are,
17 you know, kind of where the scientists saying we
18 need to be headed to address the climate crisis.
19 In order to do that, I mean, it's -- it's simple to
20 say, harder to do, but we need to do is, you know,
21 retire existing fossil, that means both coal and
22 gas, and replace it with zero emission sources like
23 energy efficiency and solar.

24 And then on the next slide.

25 This is, in some ways, a combination of the

1 previous two. We see that new gas power plants, as
2 well as, you know, uprates to existing gas combined
3 cycles, have the potential to expose ratepayers to
4 increasing costs by exposing utilities to stranded
5 asset risk and, you know, what this means is that
6 either economics, or a climate policy, or a
7 combination of the two are likely to limit the
8 amount -- limit how much utilities can use these
9 knew resources.

10 So, you know, the ones that have been proposed
11 in the 2020 10-year site plans, a book life of 30
12 years or more, and we don't think that they are
13 going to be able to be used at, you know, expected
14 capacity factors for that amount of time. And
15 then, you know, ratepayers are continuing to pay
16 for these assets even though they are no longer
17 providing value to the system.

18 And then on the next slide.

19 So, you know, what do we do? What's available
20 besides -- besides building new gas? And one of
21 the, you know, cheapest resources out there has
22 been, and continues to be, is just the megawatt
23 hour that you don't use through energy efficiency.

24 So you can see here that Florida, even though
25 it's the largest state in the southeast by

1 population, it's, you know, way behind on the
2 energy savings that utilities have captured in --
3 this is 2018 data from our annual energy efficiency
4 report.

5 And, you know, some other, you know, examples
6 is that, for instance, Duke Energy Florida captured
7 far less, you know, in terms of per customer than
8 their sister utilities -- than its sister utilities
9 in the Carolinas.

10 And just as a side note on this, too, the
11 Commission does also have the opportunity to revise
12 the decades old FEECA screening processes, you
13 know, under a current separate docket, and that
14 that would reverse -- you know, that would have the
15 potential to reverse the state's poor past
16 performance and capture, you know, the full
17 potential of low-cost energy efficiency in these,
18 and then that would feed into these 10-year site
19 plans through resource planning.

20 And then on to the next slide.

21 Another way is solar, and here, you know,
22 obviously have to recognize that, you know, Florida
23 utilities have done a lot, you know, have increased
24 their projections on solar each year in the -- in
25 the last few years, and we really applaud that, and

1 they have -- you know, we are now projecting
2 Florida to surpass North Carolina in total
3 megawatts of solar in -- starting in 2021, but
4 there is still, you know, room for improvement
5 here.

6 If you look at a -- you know, again
7 normalizing by population, if you look at a solar
8 watts per customer, even through 2023, and this is
9 under the current 10-year site plans, the solar
10 watts per customer, Florida is, you know, still at
11 the average of the region -- that's the southeast
12 regional average.

13 Next slide, please.

14 And then I just want to touch on quickly,
15 again going back to All-Source Procurement. This
16 is something that the Commission could look into at
17 a resource planning workshop. This is a process
18 that uses competition within the procurement
19 process, you know, has a technology neutral
20 procurement process, and ends up with the, you
21 know, lowest possible portfolio at the end for the
22 utility.

23 And we have a -- a report on this, if you
24 would like to read more, and a few other pieces up
25 on our website, but here are just the high level

1 five Best Practices for All-Source Procurement.

2 And then on the next slide, another thing that
3 could be explored in a resource planning workshop,
4 you know, would be taking -- taking things a little
5 bit further and looking at reserve margin sharing.

6 I think that the FPL/Gulf presentation just
7 before mine, you know, really teed this up well,
8 which is that, you know, if you don't have
9 utilities solving each for their own individual
10 reserve margins and there is more, you know,
11 sharing of balancing reserves from utility to
12 utility, that, you know, each individual utility
13 can cut down on the new generation they have to
14 build, that cuts down on cost to customers, and
15 everybody saves money. So that's something we
16 would be interested in exploring with -- with you
17 all on a potential workshop on resource planning.

18 And then on the next slide.

19 So I will just wrap up, and, you know, kind of
20 go over what I -- what I have talked about here.
21 The main points that the 10-year site plan process
22 is an outlier, and it's -- it's a bad deal for
23 customers because of the lack of transparency, lack
24 of stakeholder involvement and lack of -- lack of
25 resource competition that has led to an increase in

1 reliance on gas all across the state; and that this
2 overreliance on gas, you know, really increases
3 utility costs, increases utility bills, fails to
4 address the climate crisis, and exposes customers
5 to, you know, future costs through this issue of
6 stranded assets.

7 And again, our recommendation is that the
8 Commission hold a workshop on resource planning
9 methods.

10 And then on the next slide, I just included --
11 I mentioned -- or had on the slides, four of our
12 annual -- or four of our reports that we put out
13 this year, and so if there is more that you want to
14 learn about any of these issues, this is a way to
15 dive in, but happy to answer any questions at this
16 point.

17 CHAIRMAN CLARK: Thank you, Ms. Shober.

18 Any questions? Okay, we do have questions.

19 Commissioner Polmann.

20 COMMISSIONER POLMANN: Thank you, Mr.

21 Chairman.

22 Thank you very much, Ms. Shober. Very thought
23 provoking presentation.

24 I think a number of points that you raised, at
25 least in part were we are dealing with, and I think

1 you brought many of them together here. I think
2 it's helpful in that context.

3 I want to assure you that -- that you -- you
4 do have Commissioners sitting here that share your
5 concern of reliance on natural gas. We have
6 brought that up repeatedly in regards to
7 overreliance, the issues that you mentioned in
8 terms of no gas being produced in Florida, all
9 being imported, single source, you used the risk
10 associated with that, and so forth. We have talked
11 about that. We are concerned about it. Source
12 diversity and so forth is -- is top of mind. So
13 the issue there, for us, is that's a large shift
14 and takes a long time to turn that.

15 So it is something we are -- we are working
16 on, but we don't want to force the issue quickly
17 on -- on the stranded asset that -- that -- and
18 create stranded assets that you identified. You
19 mentioned the, you know, this is a bridge fuel. I
20 don't -- I don't embrace that notion. And then you
21 mentioned that, you know, the bridge does not go on
22 forever.

23 To continue with that analogy, there are very
24 long bridges these days, improvements in bridge
25 technology. Bridges are getting longer and higher.

1 They are lasting for longer periods of time. Bulk
2 bridges, you know, not so good, but my point being
3 I think that gas technology is improving, being
4 more efficient, lowering emissions, and so forth.

5 Now, we -- we may see in the future a concern
6 about stranded assets, but I am not going into this
7 looking at use of gas as necessarily anticipating
8 stranded assets. So I think we are cognizant of
9 that, and I appreciate you pointing that out, and
10 repeatedly bringing that back to us as concern.
11 And I would like to assure you we have the same
12 concern. We -- we may be interpreting it and
13 applying it -- applying it in a somewhat different
14 view.

15 But another aspect, Mr. Chairman, if I
16 could -- if I could direct us to Slide 5, Mr.
17 Chairman, brought this up and then came back to it
18 at the end.

19 The notion that our 10-year site plan process
20 is an outlier for many years in -- in my education,
21 training and in my professional career, being an
22 outlier is -- is a badge of honor. And, in fact, I
23 enjoy being an outlier. Many of you know me as an
24 outlier. I ran an organization, in large part, to
25 create -- to create an outlier, and -- and some of

1 you are familiar with that, became a regional,
2 state and, in fact, a national leader as an
3 outlier. This is not a bad thing.

4 Now, are we an outlier here necessarily in a
5 good way? We have some work to do, but I am not
6 offended by you identifying us as an outlier, but
7 it's not necessarily bad, but we certainly don't
8 belong on the right-hand side as an outlier. That
9 doesn't fit in Florida at all.

10 We need to examine what we are doing, and find
11 -- find the opportunity for improvement. But we
12 are somewhat restricted on what we can do. We are
13 regulated what authority we have, and so forth.
14 There are many thinking in terms of things, and we
15 brought some of those up.

16 The procurement issues that you raised, I am
17 intrigued by those. I want to examine those. I
18 appreciate you bringing those forth. We will have
19 some other discussion. I certainly intend to have
20 some discussion internally with -- with technical
21 and legal staff. I want to thank you for coming
22 today. I appreciate your comments.

23 Thank you very much slab.

24 MS. SHOBER: Thank you.

25 CHAIRMAN CLARK: Thank you, Commissioner

1 Polmann.

2 Commissioner Brown.

3 COMMISSIONER BROWN: I don't have a question,
4 Ms. Shober, but I do want to thank you for your
5 presentation, your participation really in -- in
6 the process. I always enjoy seeing the data that
7 you produce. The recommendations, you know, for
8 the past few years I have been thinking about the
9 10-year site plan process as well. I have. I have
10 colleagues around the country that have a much more
11 in-depth process. They have, you know, days long
12 hearings.

13 So it -- it has come to my attention as well,
14 you know, are we doing the best that we can do to
15 forecast the future of our planning? So I don't
16 think a workshop, at least exploring the resource
17 planning methods around the country, whether we are
18 utilizing all of our Best Practices is a bad idea.
19 So I really appreciate the recommendation.

20 Mr. Chairman, I -- I think this is a good
21 opportunity for staff to kind of delve into -- we
22 haven't done this in the history of our -- our
23 10-year site plan process, so I think it would be
24 ripe for consideration, at least exploring, you
25 know, where we are. Not really taking a point of

1 action, per se, but gathering information to see if
2 we are, you know, capturing all of the information
3 that we can use to -- to benefit Floridians. So I
4 would support that recommendation, Ms. Shober.
5 Thank you for bringing it to us.

6 MS. SHOBER: Thank you.

7 CHAIRMAN CLARK: Thank you, Commissioner
8 Brown.

9 Commissioner Fay.

10 COMMISSIONER FAY: Thank you, Mr. Chairman.

11 And Ms. Shober, you have been following along.
12 You are not going to be surprised I have a question
13 on a graph here.

14 So on Slide 11, you have got the -- the
15 distribution of the solar by state and then by
16 customer. And I know it references the annual
17 report that SACE puts out, but I didn't know if
18 you -- if the data for the per customer was the
19 load resource plan or what specific customer
20 numbers you are using to calculate that, because
21 what I find interesting in the slide is you -- you
22 look at the different geographical states in our
23 area, but then you just consider Florida's
24 population at 22 -- 21 million and counting, and
25 it's -- you know, go to argue positively for the

1 left diagram and less for the right diagram.

2 So how do you come up with your customer data
3 to make those calculations?

4 MS. SHOBER: So we use the customer data from
5 annual EIA filings. So this is again -- I don't
6 think I put it on the slide but I should have.
7 This is 2018 EIA filings and how they -- you know,
8 and then we project those forward.

9 COMMISSIONER FAY: Got you, okay, and I
10 wasn't --

11 MS. SHOBER: My apologies.

12 COMMISSIONER FAY: -- I didn't see a footnote
13 or a reference where those numbers came from.

14 And then the other quick question just for
15 clarification, I believe it's on Slide 7, it you
16 had some language in here that said Florida does
17 not have native gas supplies, so money spent on gas
18 means money sent out of state. I am not -- I am
19 not interpreting that to mean that it's a
20 suggestion that Florida should consider native gas.
21 I am interpreting that to mean that it's an
22 alternative for renewables potentially to
23 substitute here, correct?

24 MS. SHOBER: Yes, that's -- that is the
25 implication, yes.

1 COMMISSIONER FAY: Got you. Okay.

2 Great, thank you, Mr.Chair. Thank you, Ms.

3 Shober.

4 CHAIRMAN CLARK: Commissioner Fay, I thought
5 you were going to share with us where some natural
6 gas resources were we might not know about.

7 COMMISSIONER FAY: Not today, Mr. Chairman.
8 Thank you.

9 CHAIRMAN CLARK: All right. Thank you,
10 Ms. Shober, for being with us today.

11 Let's move onto Ms. -- I believe Vote Solar is
12 up next. Ms. Ottenweller.

13 MS. OTTENWELLER: Hello, can you see me all
14 right --

15 CHAIRMAN CLARK: We got you.

16 MS. OTTENWELLER: -- and hear me? Wonderful.

17 Thank you so much, Mr. Chairman and
18 Commissioners, for giving me an opportunity to
19 speak with you today.

20 My name is Katie Chiles Ottenweller. I am the
21 Southeast Director of Vote Solar. We are a
22 nonprofit that was founded in 2002, and we have
23 over 32,000 members in Florida working to make
24 solar more accessible and affordable for all.

25 And I believe I have some PowerPoint slides

1 that staff is putting up.

2 Thank you. Next slide, please.

3 We engaged in resource planning processes
4 across the country, and we reviewed the Florida
5 process, and also the filings that the utilities
6 made, and wanted to focus my comments today on a
7 few questions that the Commission should be asking
8 as it reviews the plans that were filed.

9 I first want to start by just commending and
10 appreciating the staff's excellent work and
11 responsiveness as we have engaged in this process.
12 They have been enormously helpful and thorough.

13 Next slide.

14 And I don't wanted to repeat the points
15 already made, so I am going to go quickly through
16 how utilities are addressing their gas
17 overdependence in Florida, but focus particularly
18 on some of the Commissioner questions and comments
19 that came up.

20 So Florida is at 70 percent reliance on
21 natural gas. It's in the top four states in the
22 country, which is about double the national
23 average, and, you know, we are seeing some trends
24 of increased renewables that, for some utilities,
25 are offsetting those increases, but we are also

1 seeing several utilities continue to increase their
2 reliance on gas at the share of overall electricity
3 generation.

4 So Florida, as a state, is at 70 percent, but
5 Duke Energy is projecting to be at 77 percent at
6 the end of the decade, Tampa Electric at 85
7 percent, and FMPA at 81 percent, just to give a few
8 examples.

9 So, you know, it certainly is a large shift,
10 and it takes a long time to turn it, but I think
11 the first step is to make sure you are not
12 continuing to go in the wrong direction, and so we
13 wanted to point out particularly those utilities
14 are continuing to see an uptick in that reliance
15 throughout the 10-year planning cycle.

16 Next slide.

17 And here's another sense of what this trend
18 has looked like over the past couple of decades in
19 Florida. You can see the natural gas portion,
20 which is red, and how that really has eaten up a
21 significant portion of electricity, and some facts
22 about the impacts on consumers from this.

23 I want to highlight the potential risk to
24 consumers, even over this next 10-year period,
25 since that's what we are talking about today.

1 FPL, in discovery filings, projects that the
2 cost of gas will increase by 75 percent over the
3 next decade. So going from about two-and-a-half
4 dollars to \$4.25 per MMBTU.

5 If gas prices do double for consumers, we will
6 see average bills increased by \$360 every year. So
7 even over the next decade, it's pretty significant
8 that we are still seeing gas prices -- gas reliance
9 be as high as it is.

10 Next slide, please.

11 Putting that in context, we are at about two
12 percent solar today, and seeing evidence that
13 combined solar battery storage and demand response
14 is proven to offer the same reliability and grid
15 services at less cost than new gas.

16 I also wanted to point out that in the 10-year
17 site plan statute, it talks about how the
18 Commission shall review the plan's effect on fuel
19 diversity, and signals out the need for
20 consideration of these fuel diversity issues, which
21 I know the Commission is well aware of.

22 Our encouragement would be for the Commission
23 to be working towards no more than 50 percent
24 natural gas reliance across the system as a whole,
25 and to heavily scrutinize any new gas investments

1 once a utility hits that 50 percent mark.

2 And that gets to my second point, which is
3 raising questions about how and when these new
4 investments are going to be reviewed. There is an
5 assumption that even though the 10-year site plan
6 process is nonbinding that these rev-- investments
7 will be reviewed through Power Plant Siting Act
8 review, but the reality is a lot of the investment
9 utilities are planning on making over the next
10 decade are not subject to the Power Plant Siting
11 Act. They fall through loopholes in the statute,
12 meaning they can be fully constructed and paid for
13 before Commission prudence review actually happens.

14 I listed a few examples, but combined cycle
15 upgrades, new combustion turbines and conversions
16 from coal to gas on existing units all fall within
17 these loopholes. And we have tried to project an
18 estimated capital cost of just a few of these
19 investments came in at over a billion-and-a-half
20 dollars.

21 So in this circumstance, I think there is
22 extra scrutiny that's warranted at the 10-year site
23 plan stage by the Commission, including asking
24 questions about what alternatives were considered,
25 what cost is to consumers and what assumptions were

1 used behind those.

2 Next slide.

3 So that gets into an overall question of how
4 Florida can be modernizing its resource planning.
5 In our comments, we go through opportunities that
6 the Commission has to modernize, even within the
7 existing legislative framework, and then also
8 recommendations of things the Commission might want
9 to look at beyond its existing authority that would
10 actually require some legislative changes.

11 This is a 1970s statute. It's a rapidly
12 shifting electric utility landscape. We know the
13 future is likely to be dominated by renewable
14 energy and new technology, and increasingly engage
15 customers. And so making sure that fully
16 integrated resource planning is providing
17 transparency around these costs and ways for us to
18 plan and alternatives is a really good first step.

19 And one specific recommendation that I will
20 highlight is that the Commission would require
21 utilities next year to file both their plans and
22 alternatives that they rejected but considered with
23 specific cost comparisons so we can start to get
24 some more visibility into the integrated resource
25 planning process that utilities are doing behind

1 closed doors.

2 Next slide.

3 CHAIRMAN CLARK: Ms. Ottenweller, let me
4 interrupt you for two seconds.

5 MS. OTTENWELLER: Yes.

6 CHAIRMAN CLARK: We are having some power
7 blurps here. I am not sure exactly what's going
8 on, but should we lose power, I don't know -- I am
9 pretty sure the status of our meeting will be
10 adjourned, so just bear that in mind. If we go
11 dark on you, we are having some -- some power
12 issues, and we will get an email out to all
13 participants very, very shortly if we do go in the
14 dark on you. So just fair warning for everyone.

15 Please continue.

16 MS. OTTENWELLER: Okay. Good luck with that.
17 I don't have much on reliability in here --

18 CHAIRMAN CLARK: Good one.

19 MS. OTTENWELLER: -- but I think I am getting
20 there.

21 Okay. So quickly talk about clean energy.
22 According to EIA, solar is now the cheapest
23 generating resource available to Florida utilities,
24 but some utilities are still treating this like a
25 niche energy resource.

1 I wanted to highlight kind of where utilities
2 stand with respect to each other, and then also
3 some peers across the nation and put some of this
4 in perspective.

5 I mean, the numbers speak for themselves, but
6 one thing that I thought was particularly telling
7 is even with the investments FPL and Duke are
8 making, they are still below the southeast average
9 in terms of solar per customer. Duke Energy
10 Progress in the Carolinas as 10 times as much solar
11 as Duke Energy Florida, and five times as much as
12 FPL. And, you know, the upside of that is that
13 there are a lot of lessons that these utilities are
14 learning about the ability to integrate large
15 percentages of renewable energy smoothly, creating
16 a whole lot of runway for Florida utilities as they
17 are sort of going on this journey.

18 The benchmark that we would encourage the
19 Commission to be thinking about looking across the
20 country is at least 30 percent clean energy by
21 2030. There are states that are certainly doing a
22 whole lot more than that, and pushing towards 50
23 percent clean energy at that point, but FPL is the
24 one that comes the closest to that goal at only 16
25 percent at the end of the decade.

1 So we imagine that these numbers are going to
2 continue to pick up every year as
3 cost-effectiveness of solar just continues to eat
4 into traditional generating resources, but we think
5 that the numbers are still pretty low for Florida.

6 And hopefully that provides some context for
7 the Commission. And we've got more information
8 about that in our comments if you are interested.

9 Next slide.

10 So a related issue is on carbon regulation,
11 and there is broad consensus at this point that
12 carbon regulation is a matter of when and not if.
13 But we are seeing a lot of diversity across the
14 Florida utilities in terms how they are treating
15 this coming reality. Some utilities are including
16 a carbon price in their planning while others
17 aren't. Some utilities were giving solar a
18 capacity value for the capacity benefit that it's
19 providing to the system. Others are still treating
20 it as a zero capacity resource even in the summer.

21 So we see a lot of opportunities to even look
22 within Florida, see those Best Practices and have
23 utilities sort of catch up with where some of other
24 ones are.

25 The most concerning thing that I saw as I was

1 reviewing these plans, honestly, was actually
2 seeing an increase in coal as a percentage of
3 electricity for several of the Florida utilities
4 over the next decade. I am not seeing these trends
5 happen anywhere in the country, but you can see
6 here on this chart that there are a handful of
7 municipal utilities in Florida that are actually
8 increasing their coal electricity between now and
9 2029.

10 We would encourage the Commission to strongly
11 scrutinize any plan that includes an increase in
12 coal. This is sharply at odds with where the rest
13 of the country is going just on pure economics.
14 And coal really should be less than five percent in
15 2030, in line with what we are seeing from FPL and
16 Tampa Electric.

17 Next slide.

18 Another part of utilities moving towards clean
19 energy and a carbon constrained economy is better
20 meeting the needs of the customers who are also
21 seeking access to more clean energy options. So
22 this is just a snapshot of some of the large
23 corporations. Lots of household names here who
24 have made 100 percent clean energy commitment, and
25 are clambering for more options from their electric

1 utilities, particularly in places like Florida that
2 have greater monopolies, you know, they need access
3 to programs that allow them to do that.

4 So we are seeing some of those programs in
5 Florida today, but we need a whole lot more. We
6 are seeing them fill up and subscribe almost
7 immediately when they are offered by utilities.

8 Next slide.

9 This echoes several cities in Florida that are
10 also pushing 100 percent clean energy goals and
11 looking for more options, and also tracks with the
12 popularity that we are seeing for the solar
13 resource really across the political spectrum.

14 Next slide.

15 And the last point I wanted to raise for the
16 Commission is around protection of the most
17 vulnerable ratepayers. I think this is
18 particularly salient as to this year given the real
19 burden that we are seeing to the economy due to
20 COVID, and the large numbers of customers that are
21 having a hard time paying their electric bills. We
22 strongly encourage the Commission to think about at
23 least the one-percent annual energy savings in
24 terms of energy efficiency programs and
25 investments. I am very happy to see the FEECA

1 process be revisited, and I am really looking
2 forward to participating in that conversation, and
3 also encourage utilities thinking outside the box
4 about how they can use energy savings programs to
5 create both stability and incentivize customers to
6 do what they can to stay on top of their electric
7 bills at this time.

8 Next slide.

9 And last, I want to flag that in order to help
10 members of the public better understand a utility's
11 filings and save them from having to go through all
12 of the discovery requests themselves, we have put
13 together a report card that look at the metrics
14 that I listed here at the PowerPoint slides, and
15 gave utilities ranked grades based on how they are
16 doing on their 10-year site plans. And you can see
17 those, in there are comments if you are interested
18 in more information on that.

19 And the last slide, I am happy to take any
20 questions that y'all have.

21 Thank you for your time.

22 CHAIRMAN CLARK: Thank you very much.

23 Any questions from any Commissioners?

24 Commissioner Brown.

25 COMMISSIONER BROWN: Just a comment.

1 Katie, thank you. Always you present great
2 information and great ideas as well that improve
3 our -- our process, so I appreciate you
4 participating in those 10-year site plan process.

5 And I would echo my earlier comment, Mr.
6 Chairman, and we can have this discussion at a
7 later time, but it would be, I think apt, to look
8 at our 10-year site plan process, and I don't think
9 it requires any type of legislative changes, per
10 se, but I do think having our staff kind of come
11 back to us at an Internal Affairs meeting would
12 give us some -- a broader spectrum of where we are
13 in our, what, 50-year process of reviewing 10-year
14 site plans.

15 And again, we have been doing this a long
16 time, and it's kind of been the same thing, and I
17 think it's really, really ripe to look at whether
18 we are accurately capturing all of the data that we
19 need to evaluate.

20 So I would recommend, Mr. Chairman, that we --
21 we do take the advice of Vote Solar and our
22 previous panelist and have kind of a workshop, or
23 even a directive to our staff to look at this and
24 to back to us in an IA.

25 CHAIRMAN CLARK: Okay. We will certainly take

1 a look at it. Thank you, Commissioner Brown.

2 Any other questions for Ms. Ottenweller?

3 Commissioner Polmann.

4 COMMISSIONER POLMANN: Thank you, Mr.

5 Chairman.

6 Thank you for being here, Ms. Ottenweller. We
7 appreciate your comments.

8 In one form, I could -- I could interpret your
9 remarks on fuel source and to focus on the fossil
10 fuels to imply perhaps your -- your desire that the
11 Public Service Commission have some involvement in
12 utilities' selection of fuel type or fuel source.
13 You are looking for a reduction in fossil fuels.
14 But I am not sure what you are -- I know what you
15 want, but I am not sure what you are asking.

16 MS. OTTENWELLER: Sure. Let me see if I can
17 clarify that.

18 So I think there is clear authority that the
19 Commission has, and even an obligation, under the
20 10-year site plan statute to look at how these
21 plans the utilities have submitted actually impacts
22 the fuel diversity of the state. And given where
23 Florida is right now, there is also clear ability
24 of the Commission to reject plans as unsuitable, or
25 to make recommendations, both for this year's

1 plans, for them to be refiled, or for next year's
2 plans, to ask for more information or to express
3 concern about certain areas. And I think given
4 where Florida is on natural gas dependence, any of
5 those options would be appropriate.

6 I would also make the same point for the
7 increases in coal electricity that we are seeing,
8 that there is, I think, ample authority, and -- and
9 I think very good reasons for the Commission to at
10 least be asking some questions of the utilities
11 about why they are making some of these decisions.

12 COMMISSIONER POLMANN: Well, thank you for the
13 clarification.

14 I think, Mr. Chairman, that issue, again,
15 comes back to Commissioner Brown's suggestion, that
16 that question in particular is one we can examine
17 as a matter of how we -- what our duty is in
18 reviewing, and what authority we have to go back to
19 the utilities and -- and persuade, or inform, or
20 direct the long view on the fuel mix.

21 As I said earlier, the fuel mix issue in terms
22 of reliability and -- and stability going forward
23 is very important to us.

24 I -- I have a couple more questions.

25 You mentioned the public's interest at a very

1 high level across the board on solar. Your slice
2 of solar is popular with all Americans, 89 percent
3 across the political spectrum. Could you clarify
4 for us, elaborate perhaps on the term popular?

5 MS. OTTENWELLER: Sure. So this --

6 COMMISSIONER POLMANN: Everybody -- everybody
7 likes it, so --

8 MS. OTTENWELLER: Yeah.

9 COMMISSIONER POLMANN: -- so what --

10 MS. OTTENWELLER: So this comes, in
11 particular, from a 2018 poll that was done by Pew
12 Research, and it was one of the larger polls in
13 policy poles in term of, you know, what types of
14 electricity resources would you like to see your
15 utility do more of. And so this reflects the
16 percentage of Americans that chose solar as the
17 resources that they wanted to see more of.

18 I am happy to provide that poll to you if you
19 would like more information. It's pretty
20 fascinating, actually.

21 COMMISSIONER POLMANN: The question
22 immediately arises from an economic regulator's
23 perspective is how to implement more solar in the
24 current electric utility environment in Florida,
25 where we have an electric power resource, and so if

1 we are going to overlay that with more solar, are
2 the customers willing to pay to add more solar and
3 substitute and set aside, and as I mentioned in the
4 last presentation, effectively create stranded
5 resources? So there is a complexity underlying
6 this question. I like solar too, but I haven't put
7 it on my house because there is costs.

8 So, yeah, I think we would like to look at
9 this type of research and better understand, and
10 perhaps will inform our staff as they -- they look
11 at these issues.

12 And again, back in the context of this
13 workshop, we are really -- the workshop we are
14 contemplating, we are really trying to gather all
15 the information and help guide us in future reviews
16 of these kinds of things, because we are interested
17 in what the customers think and what the public
18 perspective is. So I just raise the question here
19 because it just caused me to ask to wonder more
20 questions, and so I -- I appreciate you bringing
21 this -- bringing this forward.

22 MS. OTTENWELLER: Well, and if I may, I think
23 it's a really important question, and, you know,
24 consumer interest are a small part of the overall
25 picture of figuring out what is the public

1 interest. Although, as consumers are becoming more
2 sophisticated and seeing saying, I need 100 percent
3 clean energy because I told my shareholders I would
4 get this, or I told my constituents I would get
5 this, then I do think it shifts sort of where -- it
6 shifts the level of responsiveness that utilities
7 need to have to those consumers, especially the
8 ones that have the ability to go vote with their
9 feet and go move their operations to somewhere
10 else.

11 But I think, too, you know, these are not
12 necessarily a zero sum game of retiring assets
13 right now in order to replace them with solar. And
14 I think TECO's analysis is a great example of how
15 having smarter planning allows you to actually
16 build smarter in smaller increments, overlaying
17 these distributed resources and not just thinking
18 about resources in a vacuum of, you know, we are
19 looking at efficiency over here and then we are
20 looking at solar over there, but having true
21 integrated resource planning, where you are able to
22 see how all of these resources work together.
23 There are a lot of studies that have been done that
24 moving that direction, even if you are retiring
25 assets, is going to create net savings for

1 consumers. So very interested in participating in
2 that conversation in Florida.

3 COMMISSIONER POLMANN: Thank you.

4 And -- and the IRP is something I am very
5 familiar with. I have done that in a former life,
6 and it does get quite complicated, and requires a
7 tremendous amount of data, and expertise, and
8 patience, so thank you for pointing that out.

9 Thank you, Mr. Chairman. That's all I had.

10 CHAIRMAN CLARK: Thank you, Commissioner
11 Polmann.

12 Thank you, Ms. Ottenweller. I appreciate you
13 being here today.

14 That concludes all of our presentations today.
15 We do have five members of the public that have
16 requested to make public comment today. I am going
17 to recognize each of these individually.

18 Just a reminder for our public comments, we
19 are asking that you keep your comments to about
20 three minutes. I do have a timer going. I will
21 give you a little nod, a little reminder when your
22 three minutes are up.

23 And also just ask that you please do not be
24 duplicative. If something has already been said or
25 pointed out, try to skip that point and move right

1 along and make sure that there is new information
2 being shared with the Commission.

3 Okay, our first public comment comes from
4 Mr. Adefris. Are you with us, Mr. Adefris? Ms.
5 Adefris. My apologies.

6 MS. ADEFRIS: I was going to say Ms. Adefris.

7 Hi, everyone. Thank you so much. I am
8 Zelalem Adefris. I am the Vice-President of Policy
9 Advocacy at Catalyst Miami. We are an antipoverty
10 organization based in Miami-Dade County, Florida.
11 It's so good to be here today.

12 My comment is to urge all of the Commissioners
13 to place energy efficiency as their top priority as
14 they move forward in time, the next 10 years, of
15 energy supply and demand in Florida.

16 There is nothing like the present moment where
17 many of us, including myself, we are quarantined in
18 our homes for months on end due to a pandemic to
19 remind us of the importance of healthy, energy
20 efficient homes.

21 Lack of air conditioning increases mold growth
22 and extreme heat exposure, exacerbating respiratory
23 diseases like asthmas that disproportionately
24 impacts Florida's low income households that we
25 work with every day, and also lead to more severe

1 COVID-19 symptoms.

2 Energy efficiency measures like attic
3 insulation, tuning up an AC system can help
4 families significantly cut energy waste and save
5 money on bills, as you all very well know. This is
6 particularly helpful for those residing in older
7 homes, which are often more poorly insulated and
8 have outdated appliances, even less efficient
9 cooling systems that many of the community members
10 that we work with every day.

11 The PSC has allowed decades of disinvestment
12 in energy efficiency harming Florida's most
13 vulnerable low income customers. As a result, when
14 ranked nationally, Florida is almost last for
15 utility investments and energy efficiency.

16 Now is the time to reset the discussion on
17 investing in energy efficiency programs which are
18 quick, clean, and cost-effective methods to save
19 fuel and money, and, as we all know, reducing our
20 collective fuel use to lessen the need for more
21 power plants, reducing demand and protecting our
22 environment in the process.

23 So the COVID-19 crisis has -- (inaudible) --
24 no one, including our 600,000 customers that are on
25 default right now shouldn't have to choose between

1 paying electricity bills or buying food and
2 medicine. Again, we see these decisions being made
3 by the community members we work with every day.

4 Please don't allow deceptive tactics like
5 those that the New York Times reported in
6 January -- (inaudible) -- we know the world is
7 watching.

8 In addition, 135,000 jobs could be added to
9 our workforce by enhancing energy efficiency
10 policies according to ACEEE, and it's just what we
11 need to build back our economy in this COVID
12 reality, but first we must modernize our practices.
13 Florida is the only that the utilities rely on the
14 rate impact measure cost-effectiveness test.

15 The test, as you know, that counts the
16 utilities' lost sales and efficiency programs as a
17 cost, and therefore, efficiency measures that are
18 the most significant in savings to family or
19 business are eliminated from the utility's
20 efficiency goals. So this is insulation, efficient
21 air conditioners, LED lightbulbs, program --
22 programmable thermostats, et cetera, all get
23 counted in this test.

24 This, to me, is nonsensical as the goal of an
25 efficiency program is to help customers reduce

1 their energy demand. So, Commissioners, please
2 place energy efficiency as your top priority for
3 the next 10 years. Start by abolishing the RIM
4 test and establishing a more common type
5 alternative such in our frequently used Total
6 Resource Cost test. Let's make sure that through
7 our work today we provide multiple maximum benefits
8 for our most vulnerable communities, like the ones
9 we work in -- work with here in Miami-Dade County
10 and throughout South Florida.

11 Thank you.

12 CHAIRMAN CLARK: Thank you very much.

13 MacKenzie Marcelin, you are recognized.

14 MR. MARCELIN: Can you hear me?

15 CHAIRMAN CLARK: Yes, we can hear you.

16 MR. MARCELIN: Okay. Perfect.

17 Yeah, so, hi. My name is MacKenzie Marcelin,
18 and I work as a Climate Justice Organizer for New
19 Florida Majority in Miami-Dade, and I am also
20 cochair to the Clean Energy Working, Group for the
21 Miami Climate Alliance. And over the last six
22 months, our group -- our clean energy working group
23 has been working with the community members and
24 local officials to seek key utility relief and
25 protections because health -- because of the health

1 and economic crisis that we are currently in.

2 Because of COVID-19 and social distancing, the
3 energy to power our homes has become even more
4 necessary to our daily lives, and the Miami has
5 seen that shift.

6 I have spoken with a community member who is
7 unemployed because of the pandemic and has the
8 difficult tradeoff -- has to make the difficult
9 tradeoff of turning off their AC because her power
10 bill is -- is -- is increasingly rising. It's too
11 high.

12 And along with that, Miami has highest week at
13 the end of June, and many of the communities I work
14 in are increased -- are energy burden and must give
15 up large percentages of their income to their power
16 bills.

17 The increased temperature and increased
18 uses -- use are leading to significantly higher
19 bills, and it's clearly proving harmful to our
20 communities that have already been hit by this.
21 More than 600,000 customers are behind on power
22 bills payments just in the investor-owned utilities
23 territories alone. Unfortunately, or fortunately,
24 this can be prevented easily.

25 Florida must invest in energy efficient

1 programs. Even more good news, energy efficiency
2 is a low cost program that will help relieve the
3 burden for everyone, but especially for our black
4 and brown, and lower income communities. We should
5 not unnecessarily waste the money of -- of Florida
6 residents.

7 The Public Service Commission, you have the
8 opportunity to fix outdated practices that hamper
9 true energy efficiency for all of Florida. You
10 also have the opportunity to consider all those
11 customers that are behind on their power bill, and
12 to consider the families that make unnecessary
13 financial decisions between their health and
14 keeping their lights on. And especially more so,
15 you have the power -- you have the opportunity
16 to -- to help out those that are currently
17 experiencing, you know, shutoffs all across
18 Florida.

19 As you continue -- you know, as you all
20 continue to navigate regulations, we sincerely hope
21 that the Commission offers the people that they
22 serve transparency and more opportunities to voice
23 their thoughts during this process.

24 Thank you.

25 CHAIRMAN CLARK: Thank you very much.

1 Next up is Raquel Fernandez Makarov.

2 MS. MAKAROV: Hi, everyone. Can you hear me
3 well?

4 CHAIRMAN CLARK: Yes, we can hear you.

5 MS. MAKAROV: Awesome. Thank you.

6 Well, good afternoon, Commissioners. My name
7 is Raquel Fernandez Makarov, and I am the Central
8 Florida Sierra Club Beyond Coal Organizing
9 representative.

10 I want to share important information from
11 Orlando, and it's relevant to your role overseeing
12 electric utilities across the state. The potential
13 for energy efficiency is real and can be sig-- and
14 can be a significant source in meeting our energy
15 needs. Let me explain.

16 I am part of an amazing coalition in Orlando
17 that is helping the city make good on its
18 commitment to transition to renewable energy
19 economy. When it comes to energy efficiency
20 measures that help people keep their electric bills
21 down, like better AC and home weatherization, our
22 local utility, OUC, has the worst program in the
23 state, and one of the worst in the country. And
24 the problem is more urgent now than ever because of
25 the coronavirus pandemic that is making people fall

1 behind on their electric bills and face the threat
2 of disconnection.

3 Just last week, I was on the phone with a
4 single mother on a fixed income whose electricity
5 was shut off due to inability to pay. It is
6 important to know that this woman's monthly
7 electric bill is in the \$300 due to high energy
8 burden. This is not an isolated issue, this is a
9 statewide issue.

10 Our coalition taking a stand. We rolled out a
11 report that shows -- we rolled out a report that
12 shows that investments in energy, especially along
13 with renewables, is not only healthier for the
14 Orlando community, but also cheaper for ratepayers.

15 The analysis found that OUC ratepayers can
16 save 176 million over a period of two decades, and
17 grow local jobs. And we intend to hold OUC and the
18 City of Orlando's feet to the fire to capture this
19 valuable resource.

20 As Commissioners, you can ensure that every
21 utility meets their potential to capture
22 efficiency. Each power company should perform a
23 similar analysis -- I am sorry, a similar analysis,
24 and then meet that potential and bring it to you
25 with their plans next spring. Every Floridan

1 deserves to get the best possible value for their
2 money spent on electric bills.

3 As someone that works directly with low to
4 moderate income communities, as being a witness to
5 the high burden energy can put on a working family,
6 especially during this unprecedented time, I hope
7 you consider my suggestions and work towards making
8 a Florida with clean, safe, affordable renewable
9 energy.

10 Thank you.

11 CHAIRMAN CLARK: Okay. Thank you very much.

12 Next up, Francios Alexandre.

13 MR. ALEXANDRE: Good afternoon, Commissioners.

14 How you all doing? Can you all hear me?

15 CHAIRMAN CLARK: Yes, we can hear you fine.

16 Thank you.

17 THE WITNESS: Thank you.

18 Thank you for having me.

19 My name is Francios Alexandre. I'm the CEO of
20 Konscious Kontractors, the Founder of Justice for
21 Miami, President of Concerned Leaders of Ti Ayiti,
22 also better known as, also better known as CLOTA, a
23 board member of the Millennial Task Force on the
24 county level, and a proud member of the Miami
25 Climate Alliance.

1 Konscious Kontractors is a grass root
2 initiative that developed out of the direct
3 devastation of Hurricane Irma back in 2017 in the
4 Ti Ayiti area of Miami. We renovate residents'
5 homes and properties to be more secure and energy
6 efficient.

7 We also work to beautify our communities with
8 landscaping. We do both in order to combat one of
9 the major issues that we face here in Florida,
10 climate denitrification.

11 Upgrading a home with a high efficient air
12 conditioning can significantly lower power bills.
13 Adding insulation, caulking windows or low cost
14 weather heat blankets reduces energy use. This is
15 key to having a safe, secure place to live.

16 Konscious Kontractors recently helped a
17 grandma with asthma installing a new AC. The smile
18 on her face told us what it meant to have cool air
19 in the hot August summer.

20 It's so important because the work that we do
21 has a lot to do with the communities that we call
22 marginalized underserved, and so forth. Those
23 communities do not have the economic ladder to help
24 sustained their homes, especially in heat measures.

25 So as you consider 10-year site plans, the

1 state power companies know that the economic
2 fallout from COVID is real. As you know, hundreds
3 of thousands of people around the state are at risk
4 of disconnection, myself included.

5 I am not just here to speak on behalf of -- of
6 my constituents or, you know, speak on behalf of
7 residents. I am also here to speak on behalf of
8 myself. My energy bill at this point in time,
9 living in a six-unit apartment, is over \$600. So I
10 am one of the people that we are talking -- we are
11 talking about as we speak.

12 So many families struggle with high -- with a
13 high energy burden because utilities have not
14 helped vulnerable people access low-cost efficiency
15 measures. That's why Florida is at the bottom of
16 the state ranking for -- ranking for success for
17 energy efficient programs.

18 The end result of the rate they impact measure
19 in the two-year payback screen is simple, they
20 eliminate -- they eliminate the lower cost and high
21 impact measures, and it's those who can least
22 afford it who suffer the most. Affluent people can
23 get more efficient every time they buy a new
24 appliance. Also, renters need access to programs
25 as their energy burden is through the roof.

1 So I must ask, why do you use outdated methods
2 which gain the process to analyze the effectiveness
3 of energy reduction measures? Come to Little
4 Haiti, come to Ti Ayiti and see what I see. I see
5 old housing stocks with leaky windows and doors. I
6 see inadequate air conditioners and roofs, and I
7 see even the basic lack thereof, like insulation.

8 It is the very definition of a system
9 disparity when homes are inefficient, unhealthy and
10 not secure. It is the inequality pure and simple,
11 when many black families pay disproportionately
12 high bills, this must end.

13 It's time to modernize the conversation goals
14 setting process and efficiency program planning.
15 It's past time to help people live dignified lives
16 in a secure and safe home.

17 Thank you, Commissioners, for the time that
18 you have afforded me today.

19 CHAIRMAN CLARK: All right. Thank you very
20 much.

21 That is all of the public comment that we had
22 requested today.

23 Just a reminder, we will continue to accept
24 public comment for an additional two weeks. Those
25 that would like to send their comments in may do

1 so. The email address to submit those to is
2 DKistner@psc.state.fl.us. That address will be
3 posted on our website in cases there any questions
4 about that.

5 Yes, do we have one more comment? Oh, I am
6 sorry, my apologies. We do have one more person on
7 the list. That's an oversight on my part.

8 Mr. Claude Gercell.

9 UNIDENTIFIED SPEAKER: Commissioner, Mr.
10 Gercell has informed me he has elected to email his
11 comments, so you can move that -- move along, thank
12 you.

13 CHAIRMAN CLARK: Okay. Thank you very much.

14 All right. Any or comments, Commissioners?
15 Any questions or comments before we adjourn today?
16 Thank you all so much for indulging us today, any
17 questions?

18 Seeing none -- Commissioner Polmann.

19 COMMISSIONER POLMANN: Thank you, Mr.
20 Chairman. I just wanted to take this moment to
21 comment to the public comment we just had.

22 I really do appreciate these folks staying
23 with us during this meeting and taking the time
24 to -- to call in and participate. I am simply
25 grateful. These are important comments to us, and

1 I wanted to recognize the folks participating, so
2 thank you very much.

3 CHAIRMAN CLARK: Thank you, sir.

4 All right. There is no other comments, then
5 we stands adjourned.

6 Thank you, have a great day.

7 (Proceedings concluded at 3:27 p.m.)

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CERTIFICATE OF REPORTER

STATE OF FLORIDA)
COUNTY OF LEON)

I, DEBRA KRICK, Court Reporter, do hereby
certify that the foregoing proceeding was heard at the
time and place herein stated.

IT IS FURTHER CERTIFIED that I
stenographically reported the said proceedings; that the
same has been transcribed under my direct supervision;
and that this transcript constitutes a true
transcription of my notes of said proceedings.

I FURTHER CERTIFY that I am not a relative,
employee, attorney or counsel of any of the parties, nor
am I a relative or employee of any of the parties'
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financially interested in the action.

DATED this 1st day of September, 2020.



DEBRA R. KRICK
NOTARY PUBLIC
COMMISSION #HH31926
EXPIRES AUGUST 13, 2024