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BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION

In the Matter of:

DOCKET NO. 20190061-EI

In re: Petition for approval  
of FPL SolarTogether program  
and tariff, by Florida  
Power & Light Company.

\_\_\_\_\_ /

VOLUME 3  
PAGES 396 through 696

PROCEEDINGS: HEARING

COMMISSIONERS  
PARTICIPATING: CHAIRMAN GARY F. CLARK  
COMMISSIONER ART GRAHAM  
COMMISSIONER JULIE I. BROWN  
COMMISSIONER DONALD J. POLMANN  
COMMISSIONER ANDREW GILES FAY

DATE: Wednesday, January 15, 2020

TIME: Commenced: 1:00 P.M.  
Concluded: 2:53 P.M.

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

REPORTED BY: DANA W. REEVES  
Court Reporter

APPEARANCES: (As heretofore noted.)

PREMIER REPORTING  
114 W. 5TH AVENUE  
TALLAHASSEE, FLORIDA

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## I N D E X

## WITNESSES

NAME :	PAGE
SCOTT R. BORES	
Examination by Mr. Moyle	400
Examination by Ms. Simmons	406
Examination by Mr. Cox	430
SAM SHANNON	
Prefiled rebuttal testimony inserted	436
TERRY DEASON	
Prefiled rebuttal testimony inserted	459
JAMES R. DAUPHINAIS	
Examination by Mr. Rehwinkel	484
Prefiled direct and supplemental testimony inserted	491
Examination by Mr. Rehwinkel	583
MATT COX	
Prefiled direct testimony inserted	585
STEVE W. CHRISS	
Prefiled direct testimony inserted	614
BRYAN JACOB	
Prefiled direct testimony inserted	626
CAYCE HINTON	
Prefiled direct and supplemental testimony inserted	638

## 1 I N D E X (CONTINUED)

## 2 WITNESSES

3 NAME : PAGE

4

STEVEN R. SIM

5

Examination by Mr. Cox 647

6

Prefiled rebuttal testimony inserted 650

Examination by Mr. Moyle 660

7

8

MATTHEW VALLE

9

Examination by Ms. Moncada 661

Prefiled supplemental testimony inserted 663

10

Examination by Mr. Rehwinkel 677

Examination by Mr. Trierweiler 684

11

Examination by Ms. Moncada 691

12

13

14

15

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	EXHIBITS		
	NUMBER:	ID	ADMITTED
1			
2			
3	11 - (as identified on the		434
4	comprehensive exhibit list)		
5	36 - (as identified on the		434
6	comprehensive exhibit list)		
7	69 - (as identified on the		434
8	comprehensive exhibit list)		
9	70 - (as identified on the		434
10	comprehensive exhibit list)		
11	12-23 - (as identified on the		583
12	comprehensive exhibit list)		
13	29 - (as identified on the		693
14	comprehensive exhibit list)		
15	62 - (as identified on the		694
16	comprehensive exhibit list)		
17			
18			
19			
20			
21			
22			
23			
24			
25			

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

2 (Transcript follows in sequence from  
3 Volume 2.)

4 CHAIRMAN CLARK: All right. If everybody will  
5 find a seat, we're going to go ahead and get  
6 started.

7 We will call this hearing back to order. And  
8 I believe, if memory serves me correct, Mr. Moyle,  
9 it is your turn.

10 MR. MOYLE: Thank you, Mr. Chairman, and good  
11 afternoon, Mr. Bores.

12 THE WITNESS: Good afternoon Mr. Moyle.

13 EXAMINATION

14 BY MR. MOYLE:

15 Q I wanted to touch on a few points with you.  
16 And I don't want to be redundant about the questions  
17 that I asked Dr. Sim earlier, but you all do have some  
18 overlap in your testimony, correct?

19 A There is a little bit of overlap, yes, that's  
20 correct.

21 Q And just so the record's clear, at a high  
22 level, just tell us kind of what you did compared to  
23 what Dr. Sim did.

24 A Yes. I think as Dr. Sim talked about, he's  
25 more doing the resource planning aspect of this, right,

1 looking at what is the cost to our system of adding  
2 these 20 additional solar sites. From there, he gives  
3 me that output to kind of -- I'll say, I more took that  
4 output and the CPVRR value that he calculated to develop  
5 the pricing associated with the program.

6 **Q Okay. You filed direct and rebuttal, correct?**

7 A Yes, that's correct.

8 **Q I want to ask you about -- and you were  
9 involved in the design features of the program, correct?**

10 A I would say I had very limited involvement in  
11 that; that's more Mr. Valle. And I'm working with those  
12 parameters that are given to me.

13 **Q Well, at least on page five of your rebuttal  
14 testimony there is a question on line three: What other  
15 changes to FPL SolarTogether result from the increase in  
16 projected CPVRR benefits? Do you see that?**

17 A Yes.

18 **Q And you go in there and you say, well, one of  
19 the changes we made was that we've reallocated how  
20 savings are going to be provided to the general body of  
21 ratepayers as compared to the participants, correct?**

22 A Yes. This accounts for the updated 55/45  
23 split if that's what you're --

24 **Q What was it before the 55/45?**

25 A It was 80/20.

1           Q     Okay. Why did you make that change to make it  
2 more -- more for the general body of ratepayers?

3           A     I think as a result of the changes that were  
4 made, our CPVRR increased 110 million. And, therefore,  
5 we were able to offer some of that incremental benefit  
6 that was derived to the general body of customers.

7           Q     And maybe I'm not real clear about how the  
8 split works. You had some questions with Mr. Rehwinkel,  
9 but is that split that 40 -- 45/55 split, does it stay  
10 the same regardless of what happens with respect to the  
11 variable -- variable cost of natural gas and carbon?

12          A     I think, as I discussed with Mr. Rehwinkel,  
13 right, based on the projections we put forward today in  
14 what I'll call our base case, our mid fuel/mid CO2, it's  
15 249 based on what happens in the future. And then I  
16 think Witness Sim did a good job talking about this,  
17 that could change and ultimately that split could change  
18 as a result of the change in fuel or emissions prices.

19          Q     All right. So let's go through that. And you  
20 would agree with Dr. Sim where he said, you know, that  
21 249 savings, that's one possible scenario out of nine  
22 and there's no probability that that's going to occur,  
23 or more likely to occur, than any of the other eight,  
24 correct?

25          A     Yeah. I think it's one possible scenario out

1 of infinite. Right. We could have something different  
2 than low fuel. Right. It could be a penny change.

3 Yes, anything is possible.

4 Q Right. And I think Dr. Sim said it could go  
5 outside the nine boxes, as well. That's a possibility?

6 A Agree.

7 Q So, hypothetically, let's say -- let's say  
8 that you have huge gas run-up and you have huge carbon  
9 price. That gets the most savings to the participants,  
10 right?

11 A Correct, in our 9-box scenario, high fuel/high  
12 CO2 would generate the most significant overall savings  
13 by putting solar in the system.

14 Q Okay. And with respect to the split, the  
15 45/55 split, would that hold in that scenario?

16 A In your hypothetical, for the participants,  
17 their 137-million-dollar benefit wouldn't change, but  
18 what happened is the 112 benefit being allocated to the  
19 general body of customers, that would be a much higher  
20 number than 112 because they would realize all that  
21 upside associated with the change in fuel and emissions  
22 prices.

23 Q Right, but I'm just trying to understand -- so  
24 there's a locked-in number that the participants get,  
25 the 137, right?

1 A Correct.

2 Q And then there's another number that can vary?

3 A That is correct.

4 Q Okay. And the number that can vary, on the  
5 upside, is it 55/45?

6 A It all depends on what that upside number  
7 means. Right. It's just going to a ratio of whatever  
8 that total benefit is, 137 of that, let's just call it  
9 500 if it goes to a tremendous upside, would go to the  
10 general -- or to the participants, so 137 over 500,  
11 let's just roughly say 15 percent, 20 percent would go.  
12 The other 80 percent would go to the general body of  
13 customers.

14 Q So am I correct, so you take out the 137 and  
15 whatever is remaining you split 55/45?

16 A A hundred percent to the general body at that  
17 point in time. Right. The 137 is not going to change  
18 for the participants. The only thing that is going to  
19 change is the amount of benefit allocated to the general  
20 body of customers. And, as a result of that, that could  
21 change the 50/45 allocation that we have in our base  
22 case.

23 Q Okay. And so the 55/45, is there, just as a  
24 representative number, if you hit the middle of the nine  
25 box with the mid fuel and the mid carbon, correct?

1           A     Correct. That represents what we think is the  
2 best outcome, or the most likely outcome today, based on  
3 our mid fuel/mid carbon case.

4           Q     But then if you were to run it at a different  
5 level, you just take the 137 off and then the remaining  
6 goes to the general body of ratepayers?

7           A     Yes, that's the way I would think about it.

8           Q     Okay. And if the worst-case scenario happens  
9 from a standpoint of impact on general body of  
10 ratepayers, and probably maybe not so much for  
11 participants, as well, would be as Mr. Rehwinkel was  
12 suggesting, that if it's low fuel and low carbon, then  
13 the general body of ratepayers are not getting much,  
14 correct?

15          A     Correct. It would cost them, I think as Dr.  
16 Sim said, 145 million dollars. But, again, there's a --  
17 in his analogy, the 145 dollars to get a \$9,000 benefit  
18 in the lower overall average system cost.

19          Q     Right. And that benefit they talked about  
20 would just be, oh, you know, it's low fuel and you're  
21 not having to pay a carbon cost. That's --

22          A     Correct. Lower overall system average fuel  
23 cost for everybody.

24                MR. MOYLE: Okay. That -- I just needed  
25 clarification on those points. Thank you.

1 CHAIRMAN CLARK: Thank you, Mr. Moyle.

2 All right. Let's move to staff.

3 MS. SIMMONS: Thank you, Mr. Chairman.

4 EXAMINATION

5 BY MS. SIMMONS:

6 Q Good afternoon, Mr. Bores.

7 A Good afternoon.

8 Q Kristen Simmons with Commission Staff. You  
9 should have a set of documents in front of you.

10 A I do.

11 Q Great. My first set of questions today relate  
12 to the solar generating facilities and projects. I know  
13 Mr. Rehwinkel touched on the Power Plant Siting Act  
14 briefly in his questions, but I do not believe he asked  
15 this specific question. So, since each of the 20 solar  
16 generating facilities is below 70 megawatts, they are  
17 each exempt from the requirements of the Power Plant  
18 Siting Act, correct?

19 A Yes, that is my understanding.

20 Q And would it also be your understanding that  
21 they would also be exempt from a need determination by  
22 the Commission?

23 A Yes, that is also my understanding.

24 Q In the packet I provided, I believe the first  
25 one is FPL's petition. If you would please turn to page

1 three of the petition.

2 A I'm there.

3 Q Okay. Looking at the table, would you please  
4 confirm that none of the SolarTogether projects are  
5 below 75 megawatts?

6 A Yes, I will confirm each project is greater  
7 than 75 megawatts.

8 Q So if viewed at the project level, the  
9 SolarTogether projects would be subject to the  
10 requirements of the Power Plant Siting Act, correct?

11 A Yes, but I think we're mixing kind of apples  
12 and oranges. I think we need to look at what's the  
13 intent of the Power Plant Siting Act versus what's the  
14 intent of our AFUDC policy and how we analyze these from  
15 an accounting perspective.

16 Q Okay, but just humor me. The projects would  
17 then also be subject to a need determination by the  
18 Commission, correct?

19 A To humor you in your hypothetical, yes.

20 Q Thank you. I appreciate that. So this next  
21 question is about AFUDC. If you would please confirm  
22 that the revenue requirement impact associated with the  
23 AFUDC accrual for projects one and two is approximately  
24 2.35 million? And I can direct you to Staff Rog 243,  
25 which is Exhibit 48 on the comprehensive exhibit list.

1           A     Let me just go in the book.  Yes, that is  
2 correct.

3           Q     Okay.  Thank you.  I am now going to ask you  
4 some questions that Mr. Valle indicated yesterday would  
5 be better directed towards you.

6           A     Great.

7           Q     Do you agree that the cost for electric  
8 generation facilities are approved by the Commission for  
9 IOU's pursuant to Chapter 366 of the Florida Statutes?

10          A     Yes, I agree the Commission reviews our  
11 generating plans for prudence and ultimately approves  
12 recovery of those.

13          Q     Okay.  If the Commission did not approve the  
14 tariff, but classified the proposed solar facilities as  
15 a regulatory asset, would you agree that this would  
16 encourage the development of solar generation in the  
17 state?

18          A     Yes, I agree.  Right.  It would give us  
19 approval to build 20 sites, but that is -- kind of goes  
20 against I think everything Mr. Valle talked about in the  
21 customer desires of this program and what we're hoping  
22 to be able to bring to them and to the customers of  
23 Florida.

24          Q     Okay.  And would classifying all or a portion  
25 of the proposed solar facilities as a regulatory asset

1 **provide assurance that FPL could recover those costs in**  
2 **a future rate proceeding?**

3 A Again, yes. Right. I think we cannot  
4 establish a regulatory asset without Commission  
5 approval. And normally when we're ordered to establish  
6 a regulatory asset, it's a prudence approval and I think  
7 we can go ahead and recover that investment.

8 Q Okay. Thank you. My next line of questions  
9 deal with participant charges and credits. Would you  
10 agree that the participant charges will be credited as  
11 revenue for surveillance reporting purposes?

12 A Yes, that is correct. They will offset the  
13 revenue requirement associated with these facilities in  
14 the surveillance report.

15 Q And at your next rate case, these revenues  
16 will offset the capital investment of the solar  
17 facilities, correct?

18 A Yes. Again, these revenues will be credited  
19 against the revenue requirement and help minimize any  
20 rate case impact associated with these.

21 Q Okay. So, in other words, the revenue  
22 collected from the participating customers, the charge,  
23 will offset the capital cost associated with solar  
24 facilities that will then be recovered from the general  
25 body of ratepayers?

1           A     So I think we've got to -- we're talking  
2 semantics, so I just want to make sure we're all very  
3 clear here. Right. We are levelizing this revenue  
4 requirement. And if you think about a revenue  
5 requirement, it normally declines over time. Right. So  
6 we -- to minimize the day-one charge and make it,  
7 quote-unquote, "economical" and encourage and meet the  
8 needs of the customers here, we have levelized that  
9 charge. So, in the short term, there will be a  
10 difference between the levelized charge to the  
11 participants and the actual revenue requirement that  
12 will sit in rate base that will turn around over the  
13 life of the project, such that participants contribute  
14 104.5 percent of this total base revenue requirement  
15 over the 30-year life.

16           **Q     Please confirm that the participant credits**  
17 **will be included in the fuel cost recovery factor?**

18           A     Yes, that's correct. Ultimately what's giving  
19 rise to the credit is fuel and emissions and those are  
20 things that are normally and have historically been  
21 collected through the fuel clause.

22           **Q     And both of the charging credits will show up**  
23 **as separate line items on a participating customer's**  
24 **bill?**

25           A     I'm going to punt that one back to Mr. Valle.

1           Q     Okay.  Would you agree that the tariff does  
2     not specify how the charges and credits will be  
3     recovered from the general body of ratepayers?

4           A     I have not gone through the tariff in that  
5     level of detail.  So, again, I think that's a better  
6     question for Mr. Valle.

7           Q     Okay.  If the Commission approved the  
8     facilities and the tariff, but included the recovery of  
9     the participant credits as a base rate expense, would  
10    you agree that participating customers of SolarTogether  
11    would still receive all of the benefits that FPL has  
12    proposed in this docket so that participants would not  
13    be affected?

14          A     I think we need to understand that a little  
15    bit better.  Right.  You are taking what I would call as  
16    a volatile cost, or a cost that could potentially  
17    change, given that it's tied to fuel and emissions and  
18    there's uncertainty about what those may be in the  
19    future, how would we go about recovering those through  
20    base rates, especially given that we've entered into  
21    four-year settlement periods and we would be essentially  
22    locking in a rate based on a fuel curve at that point in  
23    time that may change, and I think that's why we've  
24    proposed to include these in a fuel clause such that we  
25    can reset and true those up annually with the movements

1 in fuel and emissions prices, like we normally do  
2 through the fuel clause.

3 **Q Can you verify that the credit is not tied to**  
4 **a fuel or emissions, it's a fixed cost?**

5 A It is tied to fuel emissions. For the  
6 participants, we have fixed that based on the fuel curve  
7 that we've proposed in our mid fuel/mid CO2. I think as  
8 we've talked about, based on the actual fuel and  
9 emissions prices that occur over the 30-year life of  
10 this project, there may be some movement of ultimately  
11 what gets allocated to the general body of customers,  
12 but they are going to be paying the credit to the  
13 participants based on the fuel curve we've proposed and  
14 the emission curve we've proposed in our base case in  
15 this case.

16 **Q Okay. But for the question that I asked,**  
17 **would the participating customers be affected or would**  
18 **they be unaffected, if the Commission approved the**  
19 **facilities and the tariff, but included the recovery of**  
20 **the participant credits as a base rate expense; wouldn't**  
21 **you agree that the participating customers would be**  
22 **unaffected?**

23 A Again, the participating customers are members  
24 of the general body. So how exactly we're going to move  
25 that, I'll say credit, into base rates, I think we need

1 to understand and think through that a little more to  
2 make sure we're all on the same page of how that will  
3 work. Right. Essentially I think if we're going to say  
4 we're going to lock that portion of it in base rates  
5 over the next 30 years, then I would tend to agree with  
6 that, but I think we need to understand then what does  
7 that do to the general body of customers and how will  
8 this work given that we could have future settlements or  
9 extended periods without a reset in base rates. It's  
10 just something we haven't done is to collect a fuel  
11 charge or an emission charge through base rates. Right.  
12 It's always been reset annually through the fuel clause.

13 **Q Okay. Would you agree that in this example,**  
14 **FPL would bear the risk of the SolarTogether credit**  
15 **expense until its next rate case? I can repeat the**  
16 **example if you'd like.**

17 **A** I'm just trying to think through. Yes.  
18 Right. There would be risk associated. Right. If we  
19 were to put a fuel item through base rates, I would say  
20 absolutely there's going to be risk given the movement  
21 in prices, or the potential for the movement in prices.

22 **Q Let's move to the last document provided to**  
23 **you. It should be FPL's Response to Staff's**  
24 **Interrogatory No. 233H.**

25 MS. SIMMONS: Mr. Chairman, this document is

1 listed as Exhibit 46 on the comprehensive exhibit  
2 list.

3 CHAIRMAN CLARK: Okay.

4 MS. MONCADA: Can you repeat the exhibit?

5 MS. SIMMONS: Yes.

6 MS. MONCADA: And the interrogatory number?

7 MS. SIMMONS: It's FPL's Response to Staff's  
8 Interrogatory No. 233H, specifically attachment  
9 one, tab one of two, and it's the last one in the  
10 packet.

11 MR. COX: Ms. Simmons, did you say it was 46?

12 MS. SIMMONS: It's -- yes, the Comprehensive  
13 Exhibit 46.

14 MR. COX: So were there multiple -- there are  
15 multiple parts of 46. Okay. Thank you.

16 MS. SIMMONS: Yeah.

17 BY MS. SIMMONS:

18 **Q Are you there?**

19 A I am.

20 **Q Okay. Great. Mr. Bores, you sponsored this**  
21 **document, correct?**

22 A I did.

23 **Q This exhibit shows the annual bill impact to**  
24 **the general body of ratepayers and the participants.**  
25 **Looking at year 2021, please confirm that the highest**

1 **bill increase to the general body of customers would be**  
2 **\$13.49.**

3 A I'm going to say yes. This is what the  
4 document shows. However, I think it's important to note  
5 that this assumes perfect ratemaking. Right. This has  
6 both the base and clause piece. We are in a settlement  
7 agreement and we have said we plan to stay out through  
8 the end of 2021, such that base rates are not going to  
9 change for the general body of customers, such that the  
10 base rate portion that's included in this 13.49, they  
11 are not going to see that in 2021 as a result of us  
12 staying out to that settlement agreement. They are  
13 going to see a fuel portion of that, which I think --  
14 give me one second here -- in 2021 which will roughly  
15 increase their bill 47 cents a month for the typical  
16 1,000-kilowatt-hour customer.

17 **Q Is that assumption the same for both**  
18 **participants and non-participants?**

19 A I don't understand the question. Right.  
20 Participants are going to be contributing when the  
21 services go into service. Their portion of the -- I'll  
22 call it the 104.5 percent are the subscription credits  
23 we will be collecting revenues from the participants to  
24 offset some of the revenue requirement. If there's just  
25 no change for the general body of customers, given that

1 we are not asking to change base rates as part of this  
2 petition.

3 **Q Okay. So let me see if I can clarify. So is**  
4 **there perfect ratemaking assumed for both participants**  
5 **in the general body of ratepayers?**

6 A So I'm going to try and clarify your question  
7 just to make sure we're all clear here. Participants  
8 are going to start paying a subscription credit on day  
9 one. Right. As soon as these facilities go into  
10 service, they start paying a subscription credit.  
11 Right. We're going to have a revenue requirement  
12 associated with placing these solar facilities in  
13 service. Participants are going to pay their share of  
14 that through the subscription credit, which will help  
15 offset some of that revenue requirement.

16 We talked a little bit about the differential  
17 between the levelized price we're charging them and the  
18 declining revenue requirement. That's ultimately what's  
19 going to sit in rate base through our surveillance  
20 report, essentially is a shortfall, all else equal. We  
21 are not going to ask to charge the general body of  
22 customers that shortfall in '20 or '21 as a result of  
23 this program because base rates are not changing. We're  
24 under the settlement agreement.

25 **Q Okay. So I'm going to stick with 2021,**

1     **though. For that same year if we can stick with the**  
2     **same exhibit, the highest participant cost would be**  
3     **\$22.49, correct?**

4           A     That's correct.

5           Q     **And the largest bill savings for the general**  
6     **body of customers comes in year 2028 and is \$16.47,**  
7     **correct?**

8           A     Yes.

9           Q     **Whereas in that same year, 2028, participants**  
10    **would see a bill decrease of \$49.20, correct?**

11          A     That is correct.

12          Q     **Okay. Thank you for your time, Mr. Bores. I**  
13    **have no further questions.**

14          A     Thank you.

15                CHAIRMAN CLARK: All right. Thank you, staff.  
16                Commissioners, any questions for Mr. Bores?  
17                Commissioner Brown.

18                COMMISSIONER BROWN: Thank you. And thank you  
19                for your testimony, Mr. Bores. I appreciate it.  
20                You clarified a few areas that I was interested in.  
21                So I appreciate it.

22                This proposal of community solar is definitely  
23                unique from other community solar programs from  
24                around the country, right?

25                THE WITNESS: From what I've heard from what

1 Mr. Valle tells me, yes.

2 COMMISSIONER BROWN: It's a first of its kind.

3 THE WITNESS: That is what we say.

4 COMMISSIONER BROWN: Couched as community  
5 solar?

6 THE WITNESS: Yes.

7 COMMISSIONER BROWN: I'm trying to get an  
8 understanding. Your financial modeling is  
9 consistent with FPL's SoBRA filings, right?

10 THE WITNESS: Yes. The way we look at it from  
11 a resource planning perspective, assuming, you  
12 know, this is the last solar addition we make in  
13 the system. Yes, very consistent in that regard.

14 COMMISSIONER BROWN: Why did FPL -- I know  
15 that there -- Mr. Valle said that this is being  
16 driven by the need from customers. Why did FPL  
17 model this program in the unique fashion that it  
18 has, including non-participating customers?

19 THE WITNESS: I think -- and I know he's  
20 prepared to answer this a lot better than I --

21 COMMISSIONER BROWN: I'm ready for it.

22 THE WITNESS: I think it's -- we wanted a  
23 program that was going to share the benefits with  
24 both the participants and the general body. Right.  
25 If we created this program with, I'm going to use

1 the term, a ring-fence, right, of just  
2 participants, it would be very hard to do that.  
3 Right. You'd have to look at that day-one charge  
4 you are going to have to make to them. I couldn't  
5 levelize that that day-one charge. Right. Because  
6 otherwise I'd have to -- as we're doing today, I'm  
7 taking that differential and having the general  
8 body pay for it, knowing it's going to turn around  
9 over the life of the program. If I ring-fence it,  
10 I would have to put that full declining revenue  
11 requirement, that full amount, on the participating  
12 customers day-one, which just wouldn't make it  
13 economical for the amount of savings we're going to  
14 see.

15 I think a lot of this savings associated with  
16 these solar facilities are in the outer years of  
17 the project, right, based on where we think fuel  
18 prices and emissions are going to go. And so to  
19 kind of develop a program that is going to have a  
20 significant day-one charge, but with very little  
21 savings, I think is going to be a hard pill to  
22 swallow for these customers, but ultimately if they  
23 were committed for the 30 years, they would get  
24 that. So we've designed this program to share in  
25 the benefits without charging any of the base

1 revenue requirement to the general body of  
2 customers, but be able to share that benefit with  
3 them.

4 COMMISSIONER BROWN: Seeing that the  
5 commercial side is fully subscribed already, the  
6 75 percent of the program, it would almost appear  
7 that participating customers could -- the interest  
8 that is expressed by FPL's, at least commercial  
9 customers, could fund the entire program.

10 THE WITNESS: Again, I think it goes to what  
11 would we have to charge them on year-one day-one  
12 to -- makes it uneconomical for some --

13 COMMISSIONER BROWN: You'd have to levelize it  
14 over 50 years or --

15 THE WITNESS: Or a longer period of time.  
16 It's currently longer than a book life, or what we  
17 think is an economical life for the solar  
18 facilities.

19 COMMISSIONER BROWN: What is an economical  
20 life of a solar facility?

21 THE WITNESS: Today it is 30 years.

22 COMMISSIONER BROWN: With approval of -- if  
23 the Commission approves the FPL SolarTogether  
24 program as presented and the additional revenue  
25 requirement associated therewith, would that

1           obviate the need for FPL to come in later for a  
2           rate case?

3           THE WITNESS:   You're asking in kind of 2022  
4           based on our current plan.

5           COMMISSIONER BROWN:   2022, '23?

6           THE WITNESS:   No.   Right.   Obviously this is  
7           one investment of a portfolio of investments we're  
8           making for our customers and across our entire  
9           fleet.   Right.   I think we continually assess what  
10          is the right time to come in for a rate case based  
11          on the investments that we're making and our  
12          financial position, but I don't think approving  
13          this program one way or another is going to change  
14          the outcome of a potential 2021 rate case filing  
15          for new rates, 1/1/22.   This is just one piece of a  
16          portfolio of investments we're making for the  
17          benefit of our customers.

18          COMMISSIONER BROWN:   It's a significant  
19          revenue piece, though.

20          THE WITNESS:   I would say yes, but, again  
21          we're are asking the participants to fund all of  
22          that base revenue requirement.   Right.   And they  
23          are going to pay 104.5 percent of it over the  
24          program's life.

25          COMMISSIONER BROWN:   Okay.   Thank you.

1 CHAIRMAN CLARK: Commissioner Polmann.

2 COMMISSIONER POLMANN: Thank you, Mr.

3 Chairman. Afternoon, Mr. Bores.

4 THE WITNESS: Good afternoon, Commissioner  
5 Polmann.

6 COMMISSIONER POLMANN: Interesting set of  
7 questions that -- and answers that raised more  
8 questions for me, sorry to say. To Commissioner  
9 Brown's last series of questions, and to follow up  
10 Ms. Simmons' questions, on the matter of the rate  
11 base and the fact that you're operating under a  
12 settlement agreement for no change in the base rate  
13 and the stay-out provision and so forth, you have a  
14 commitment right now to stay out for a period of  
15 time. And recognizing that beyond that you can  
16 come in at any time, I'm concerned to a degree that  
17 we don't have an understanding of the impact to the  
18 base rate to the general body that could occur once  
19 the actual costs for this program are defined.

20 So what is your understanding of how this is  
21 all going to play out? I understand that there is  
22 some known credits. There is revenue that's going  
23 to be collected by the participants and so forth,  
24 but there remain a number of unknown costs and the  
25 actual impact on the rate base, how that transfers

1 over into all of the other calculations that need  
2 to then be trued up and cascade through an actual  
3 rate case. So how is that all going to play out  
4 and when in time in some number of years? A lot of  
5 projections go out decades, in fact, but what's  
6 going to happen two, three, four years from now  
7 that you can help me understand?

8 THE WITNESS: Let me talk about -- and I'm  
9 going to reference my exhibit, SRB2. I think as we  
10 talk through this, I think it's probably the  
11 easiest way to hopefully helpfully lay some of this  
12 out for you guys to understand. What I want to  
13 focus on first is about halfway through the page I  
14 have a line called net revenue requirements. It's  
15 kind of below the base in clause. And if you look  
16 at 2019, the first number there is 5.8 million, and  
17 then 2020 it goes 52.2 million. That's basically,  
18 hey, if we did this program as your typical  
19 put-it-in-rate-base type investment, what the  
20 annual revenue requirement would be, if you go to  
21 the last line on this page, this basically shows  
22 what that revenue requirement is as a result of us  
23 doing this program.

24 So, in 2019, given that none of these  
25 facilities are yet in service, we have the same

1           5.8. However, in 2020, we have a revenue  
2           requirement of 50.7 million dollars. That's less  
3           for the general body of customers than it would be  
4           had we done this as a rate base program because the  
5           credit being paid to the participants is lower this  
6           year. They're paying a higher revenue requirement,  
7           a base revenue requirement than they're getting a  
8           credit through the clause. So, all this equal,  
9           this tells me that it is cheaper for our general  
10          body of customers to do this as a SolarTogether  
11          program than it would be to do it as a rate base  
12          program. And that stays true through about 2024  
13          and at that point the credit being paid to  
14          participants exceeds the revenue requirement that  
15          we're collecting from them, such that they start to  
16          get a benefit, or I think as Dr. Sim referred to  
17          it, that incentive payment starts to kick in and  
18          it's exceeding that.

19                 However, I think the important thing to note  
20                 is that by 2027, this program completely flips and  
21                 from 2027 on, our general body of customers has a  
22                 benefit going forward and that continues out  
23                 through the end of this program and that's  
24                 essentially what allows for the benefit, the 112  
25                 million dollars, to accrue to the general body. It

1 is actually cheaper for them in the short-term to  
2 use this SolarTogether program, then ultimately it  
3 flips and they continue to get a credit in 2027 and  
4 each year forward.

5 COMMISSIONER POLMANN: Thank you for that  
6 explanation. Let me shift over to an item or page  
7 that was discussed. It was brought up yesterday  
8 and it was introduced. I think Mr. Trierweiler was  
9 asking questions of Mr. Valle and it was --  
10 discusses in terms of what was Exhibit No. 65 was  
11 not -- was not brought into the record, but I  
12 believe it may have been referenced in your  
13 rebuttal testimony. It shows here, it was  
14 Interrogatory No. 234A and the question here --  
15 it's an amended Interrogatory No. 83. And so the  
16 question refers to your rebuttal testimony, page  
17 three. And I'm not sure how to get you to see it.  
18 You have all of the information on the computer  
19 there, so --

20 THE WITNESS: I do have Interrogatory No. 234A  
21 in front of me.

22 COMMISSIONER POLMANN: Okay. So there's a  
23 table there at the bottom. And we see here the 1.8  
24 billion dollars in total program costs and then  
25 there's \$9.23. Can you just give me a real quick

1 explanation of the \$9.23? How is that calculated  
2 and the units or dollars per kilowatt month? What  
3 does that mean?

4 THE WITNESS: So that is essentially the  
5 levelize charge. Right. So it's taking the  
6 revenue requirement of the 1.803 that we're adding  
7 to rate base and saying, hey, instead of declining  
8 that revenue requirement over 30 years, let's  
9 levelize it based on the kilowatt hours of  
10 production we expect to come up with; what's the  
11 charge. I view it as the capacity payment. Right.  
12 We have X amount of capacity over 30 years that has  
13 X amount of revenue requirement; what's the  
14 levelize charge for that capacity.

15 COMMISSIONER POLMANN: So the kilowatt, that's  
16 your anticipated production?

17 THE WITNESS: No, it is actually the fixed  
18 firm capacity. So think of 74-and-a-half megawatts  
19 times 20 sites over 30 years, that's how much  
20 capacity we have in essentially kilowatt versus  
21 megawatt hours.

22 COMMISSIONER POLMANN: Okay. So then looking  
23 at the subscription revenue, rounding that off as  
24 1.32 billion dollars, and that's to be collected by  
25 the program participants under the pending tariff?

1 THE WITNESS: Yes.

2 COMMISSIONER POLMANN: That first column, the  
3 bottom line. It's 1.315.5.

4 THE WITNESS: Correct. Right. I think it's  
5 important, and we've skipped over a lot today,  
6 this, I'll call it, credit of 544.6, right.

7 COMMISSIONER POLMANN: No. I'll come back to  
8 that in a second. So what I'm trying to establish  
9 is that 1.315.5, that's a fixed known value  
10 according to the subscription. Is it fair to call  
11 them contracts? Is that --

12 THE WITNESS: I'll defer to Mr. Valle on the  
13 perfect word, but, yes, assuming we have a hundred  
14 percent subscription for this program, we will  
15 collect the CPVRR equivalent of 1.315.5.

16 COMMISSIONER POLMANN: Just a moment, Mr.  
17 Chairman.

18 Now, coming back to the 544.6 million, that's  
19 labeled as avoided generation savings. And what's  
20 included in avoided generation savings? Because  
21 that number appears here. Is that your base case  
22 because you're using less fuel and also  
23 including -- explain to me why that's a negative.  
24 That's a lower cost because of what?

25 THE WITNESS: Because of us building this

1 solar. So basically by building these 20 solar  
2 sites today, we are not having to build something  
3 else in the future that was going to cost our  
4 customers the equivalent of 544.6 million of  
5 incremental base revenue costs. So we are saving  
6 them 544.6 million of costs that they were going to  
7 incur in the future and was going to otherwise hit  
8 base rates as a result of building this solar  
9 today.

10 COMMISSIONER POLMANN: So this is lower  
11 capital?

12 THE WITNESS: That's a great way to think  
13 about it. Capital, and I will say O&M, associated  
14 with fixing that capital or maintaining it.

15 COMMISSIONER POLMANN: But it's not related to  
16 fuel?

17 THE WITNESS: This has nothing to do with  
18 fuel. This all just pure base rate cost, what is  
19 the base rate cost.

20 COMMISSIONER POLMANN: Thank you for that  
21 clarification. So the net revenue requirement,  
22 picking up on the discussion I had with Dr. Sim, is  
23 what component of that, if you can touch on that,  
24 if it's within your expertise, what component of  
25 has uncertainty such that this subscription revenue

1           that you're going to collect would be insufficient  
2           or in -- either more or less than this table  
3           reflects.

4           THE WITNESS: So, as I sit here today, I would  
5           say there's really none. However, are there  
6           factors that could change? Yes. Could our future  
7           population or load growth change, could we have a  
8           recession at some point in the future where we lose  
9           customers or customers start significantly  
10          losing -- using less energy such that we don't need  
11          to build what we thought we were going to need to  
12          build in the future? Yes. However, that 1.315, we  
13          are going to collect, assuming this program is one  
14          hundred percent subscribed, is locked, loaded and  
15          not going to change.

16          COMMISSIONER POLMANN: Okay. So is it fair to  
17          say that within this table, the program costs are  
18          essentially best estimates on capital and that the  
19          savings are your best estimates on avoided capital?

20          THE WITNESS: Yes.

21          COMMISSIONER POLMANN: And that the  
22          subscription basis is presuming a hundred percent  
23          participation, and then as you indicated the  
24          kilowatt is in place capacity and that there's some  
25          uncertainty with regard to your ability to fully

1 know what the estimated cost, whether or not  
2 they're --

3 THE WITNESS: Correct.

4 COMMISSIONER POLMANN: Is that a fair --

5 THE WITNESS: Yes. We're taking our load and  
6 population forecast as of today, the best  
7 information we have consistent with what we do at  
8 the ten-year site plan to basically say what  
9 generation are we going to need in the future to  
10 meet that load and demand growth and that's what  
11 this represents.

12 COMMISSIONER POLMANN: Thank you, Mr. Bores.  
13 I appreciate your answers.

14 Thank you, Mr. Chairman. That's all I have.

15 CHAIRMAN CLARK: Thank you, Commissioner  
16 Polmann. Any other questions?

17 Okay. I believe that concludes this witness.  
18 Mr. Cox.

19 MR. COX: Redirect. Thank you.

20 CHAIRMAN CLARK: Yes, sir.

21 EXAMINATION

22 BY MR. COX:

23 Q Just a few clarification questions for you,  
24 Mr. Bores. You were discussing, I think, with  
25 Commissioners the revenue requirement impact as it's

1 portrayed in SRB2, your exhibit. Do you recall that  
2 discussion?

3 A Yes.

4 Q Could you describe, at least for the early  
5 years of the program, what that means in terms of our  
6 best projections on bill impacts?

7 A Yeah. I think I talked about that a little  
8 bit, but -- right -- essentially since we're not  
9 changing bills for the general body, or the base portion  
10 of the bill for the general body of customers through at  
11 least 2021, I show an increase of roughly 13 cents in  
12 2020 on the fuel side of the bill and 47 cents in 2021  
13 on the fuel side of the bill. But, again, that quickly  
14 changes to a credit by 2027 and stays a credit for the  
15 remainder of the program for the general body of  
16 customers.

17 Q Okay. My other questions I want to ask you  
18 related to clarifying -- actually, let me ask you one  
19 more question. So the exhibit you were discussing with  
20 the Commission staff also did look at total bill  
21 impacts. Did it -- I think it was Exhibit 46, is that  
22 right, as part of the composite exhibit?

23 A Yes.

24 Q And I think you said that those bill impacts  
25 reflected perfect rate-making. Is what you said?

1           A     Yeah.  So I think when I was talking about '20  
2     and '21 in your prior question, right, we are not  
3     changing base rates.  This bill impact here would assume  
4     perfect rate-making, or such that the general body  
5     portion of the base rates that we're allocating, or the  
6     difference between the levelize and declining would be  
7     allocated to them in '20 and '21, and that's not the  
8     case with what we're proposing or where we stand in the  
9     current settlement.

10           Q     Thank you for that clarification.  The other  
11     area I want to talk to you about was your discussion  
12     with Mr. Rehwinkel about the AFUDC application to the  
13     solar energy projects.  And he had two exhibits, so I'm  
14     going to reference those as I ask you some questions.  
15     Exhibit 69 was one that he talked about the  
16     SolarTogether one and two projects and the analysis on  
17     those memos that analyze whether or not FPL would apply  
18     AFUDC to those projects.  Do you recall that discussion?

19           A     I do.

20           Q     Did that packet of information, that exhibit,  
21     also include accounting memos that address the  
22     SolarTogether 3 project?

23           A     Yes, it has -- or I think what is a draft memo  
24     of the SolarTogether 3 project.

25           Q     And did it also have a second version, which I

1     **assume is the final?**

2           A     Yes, it did.

3           **Q     What were the conclusions in those memos? I**  
4     **think both in the draft and final conclusion was similar**  
5     **if I recall, right?**

6           A     That SolarTogether Project 3 no longer  
7     qualifies for AFUDC as we -- we contracted each site  
8     separately to get the lowest construction cost for our  
9     customers.

10          **Q     And that's a different conclusion than you**  
11     **reached for SolarTogether 1 and 2 when you applied the**  
12     **policy, correct?**

13          A     That is correct.

14          **Q     Last question. On Exhibit 70, and that was**  
15     **another accounting memo, an example of an accounting**  
16     **home addresses AFUDC for the GE 7FACT project?**

17          A     Yes.

18          **Q     Just one question. The various sites that**  
19     **were part of that -- well, take a step back. What was**  
20     **the conclusion of that analysis?**

21          A     That this project, upgrading the 20 GE 7FA  
22     units qualify for AFUDC.

23          **Q     And the various sites that made up that**  
24     **project, the CT project, were they located in different**  
25     **parts of FPL's service territory?**

1           A     Yes.  I think very similar to our solar sites,  
2     we are very geographically diverse across the entire  
3     State of Florida.  So that is -- same holds true for our  
4     combined cycle units, as well.

5           **Q     Would it be fair to say that some are several**  
6     **hundred miles apart?**

7           A     I think that's a fair assumption, yes.

8           **Q     Thank you, Mr. Bores.**

9           MR. COX:  No further questions, Mr. Chairman.

10          CHAIRMAN CLARK:  All right.  Concludes this  
11     witness.  Your documents -- exhibits.  I'm sorry.

12          MR. COX:  Yes.  One moment.  Chairman, FPL  
13     would move Mr. Bores' exhibits, which were Exhibit  
14     11 and 36.

15          CHAIRMAN CLARK:  Okay.  So ordered.

16          (Whereupon, Exhibit Nos. 11 and 36 were  
17     entered into evidence.)

18          CHAIRMAN CLARK:  Mr. Rehwinkel.

19          MR. REHWINKEL:  Public Counsel would move  
20     Exhibit 69 and then 70.

21          CHAIRMAN CLARK:  So ordered.

22          (Whereupon, Exhibit Nos. 69 and 70 were  
23     entered into evidence.)

24          CHAIRMAN CLARK:  And, staff, you did not order  
25     any, did you?

1 MS. SIMMONS: That's correct.

2 CHAIRMAN CLARK: All right.

3 MR. COX: May the witness be excused,  
4 Chairman?

5 CHAIRMAN CLARK: Yes, sir. You're excused.  
6 Thank you.

7 All right. Our next two witnesses are  
8 stipulated to, Mr. Shannon and Mr. Deason. You  
9 want to go ahead and enter their testimony, Ms.  
10 Moncada?

11 MS. MONCADA: Thank you, Mr. Chairman. FPL  
12 requests that the testimony and the prefiled  
13 exhibits, if any, for Mr. Deason, as well as Mr.  
14 Shannon, will be entered into the record as though  
15 read.

16 CHAIRMAN CLARK: All right. Without  
17 objection, make it so.

18 (Whereupon, Witness Shannon's prefiled rebuttal  
19 testimony was inserted into the record as though read.)

20

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**ERRATA SHEET OF SAM SHANNON****September 23, 2019 – Rebuttal Testimony**

<b><u>PAGE #</u></b>	<b><u>LINE #</u></b>	<b><u>CHANGE</u></b>
Page 1	3	Delete “LON M. HUBER” and insert “SAM SHANNON”
Page 4	3	Delete “John” and insert “James”

1 **I. Introduction and Background**

2

3 **Q. Please state your name and business address.**

4 A. My name is Sam Shannon. My business address is 517 Wingra Street, Madison,  
5 Wisconsin 53715.

6 **Q. By whom are you employed and in what capacity?**

7 A. I am employed by Navigant Consulting, Inc. as a Managing Consultant in the energy  
8 practice.

9 **Q. Please describe your educational background and professional experience.**

10 A. I graduated from Southwestern University in Georgetown, Texas in 2007 with a  
11 Bachelor's in Philosophy and Spanish Literature. I graduated from the University of  
12 Wisconsin-Madison in 2013 with a Master's in Public Affairs and a graduate certificate  
13 in Energy Analysis and Policy. I completed NARUC rate school in 2014. From 2013  
14 to 2019 I worked at the Public Service Commission of Wisconsin as the Senior Energy  
15 Policy Analyst. While at the PSCW, I testified in rate cases for electric, natural gas, and  
16 water utilities in which I offered rate design and cost-of-service exhibits. I also worked  
17 on a variety of other utility issues including community solar, industrial pricing  
18 programs, dedicated renewable energy offerings, municipal annexation and  
19 incorporation, and pole attachment charges. I served on the NARUC Electricity and  
20 Rate Design staff subcommittees during that time as well.

21 **Q. For whom are you appearing as a witness?**

22 A. I am appearing as a witness for Florida Power & Light Company ("FPL").

23 **Q. What is the purpose of your rebuttal testimony?**

24 A. The purpose of my rebuttal testimony is to respond to the testimony of Office of Public  
25 Counsel ("OPC") witness James R. Dauphinais and Vote Solar witness Matt Cox. I will

1 address their contentions and discuss the reasonableness of FPL's proposed  
2 SolarTogether Program, highlight best practices of community solar programs, and  
3 discuss, generally, how community solar programs expand access to renewable energy.  
4

1                   **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**  
2                               **FLORIDA POWER & LIGHT COMPANY**  
3                               **REBUTTAL TESTIMONY OF LON M. HUBER**  
4                               **DOCKET NO. 20190061-EI**  
5                               **SEPTEMBER 23, 2019**  
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## I. Introduction and Background

**Q. Please state your name and business address.**

A. My name is Lon M. Huber. My business address is 101 S Tryon St #2820, Charlotte, NC 28280.

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

A. I am employed by Navigant Consulting, Inc. as a Director in the energy practice.

**Q. Please describe your educational background and professional experience.**

A. My career in the energy industry began in 2007 when I started work at a solar energy research institute housed within the University of Arizona. From 2010 to 2013, I held positions in the solar industry working on matters both local to Arizona and across the U.S. Subsequently, I served as a consultant for Arizona's consumer advocate, the Residential Utility Consumer's Office (RUCO), on energy related issues. I then joined RUCO as a full-time employee. At RUCO, I was the staff lead on significant dockets involving net metering, resource procurement, and utility solar programs. I decided to rejoin the consulting space in 2015 where I have since worked for numerous consumer advocates, state utility commissions, and energy companies. A major topic of my work has been on pricing and community solar programs. For example, I developed Hawaii's Community Based Renewable Energy (CBRE) program on behalf of the Hawaii Public Utilities Commission; I

1           helped shape Maryland’s community solar program on behalf of the Office of  
2           People’s Counsel; and I represented the Coalition for Community Solar  
3           Access in New York on a few community solar matters. My work on  
4           community solar, through the above examples and more – including my  
5           efforts in Massachusetts, New Hampshire, Arizona, and Maine – helped me  
6           garner Utility Dive’s 2018 Innovator of the Year award. My other professional  
7           focus revolves around pricing and rate design for customer facing programs  
8           across the U.S., with a particular specialty in time-varying rates and  
9           subscription-based pricing. I am a regular instructor at the Financial Research  
10          Institute (FRI) Transformational Pricing course held at the University of  
11          Washington, and I currently consult for entities such as the New York Public  
12          Service Commission and the Office of Consumer Counsel in Connecticut on  
13          pricing for renewable energy. Finally, I have extensive experience with  
14          resource planning, both past and present, particularly in regard to grid-scale  
15          renewable energy and energy storage.

16  
17          In terms of educational background, I obtained a Bachelor of Science degree  
18          in Public Policy and Management from the University of Arizona in 2009. I  
19          also received a Master of Business Administration from the Eller College of  
20          Management at the same university. I completed NARUC rate school in 2014.

21   **Q.    For whom are you appearing as a witness?**

22   A.    I am appearing as a witness for Florida Power & Light Company (“FPL”).

1 **Q. What is the purpose of your rebuttal testimony?**

2 A. The purpose of my rebuttal testimony is to respond to the testimony of Office  
3 of Public Counsel (“OPC”) witness John R. Dauphinais and Vote Solar  
4 witness Matt Cox. I will address their contentions and discuss the  
5 reasonableness of FPL’s proposed SolarTogether Program, highlight best  
6 practices of community solar programs, and discuss, generally, how  
7 community solar programs expand access to renewable energy.

8

9 **II. Assessment of the proposed FPL SolarTogether Program**

10

11 **Q. Have you reviewed the direct testimony of those opposed to the FPL  
12 SolarTogether Program?**

13 A. Yes. My general reaction is that opponents to the FPL SolarTogether  
14 Program have not adequately considered or valued the significance of this  
15 program to the needs of customers. I believe that customer needs and interest  
16 in this program should be at the forefront of the relevant considerations and  
17 discussion regarding whether FPL SolarTogether should be approved.

18 **Q. In general, how do community solar programs address the needs of  
19 customers?**

20 A. Community solar programs, like FPL SolarTogether, perform a dual function  
21 of giving customers who may not otherwise have access to or the ability to  
22 invest in solar the opportunity to do so, while allowing those customers to  
23 remain customers of the utility, which supports the grid and benefits the entire

1 customer base.

2 **Q. For those customers that do not have access to solar power, what are the**  
3 **common barriers they face?**

4 A. The most common barriers are siting and price. Solar requires adequate,  
5 unshaded roof space or clear land available to install the arrays. And while the  
6 price of solar continues to fall, some customers may not have the resources to  
7 lease or purchase solar PV or businesses may not see a fast enough payback to  
8 justify the investment. This is particularly acute on small PV installations that  
9 do not possess favorable economies of scale compared to larger installations.

10 **Q. How do utility-led community solar programs address these two**  
11 **barriers?**

12 A. In a utility-led community solar program, the utility takes over the siting and  
13 resource planning aspects of installing solar arrays. For example, this means  
14 that homeowners or businesses with a shaded roof can “buy” a solar array but  
15 not have to locate it on their own premises. Also, utilities are better able to site  
16 the community solar resources at the locations that are most likely to provide  
17 greater benefits to the electric grid and exercise buying power and utilize  
18 economies of scale to lower the price of hardware and installation.

19

20 Community solar programs offer residential customers access to solar energy  
21 regardless of where they live. This is important for renters and occupants of  
22 multi-unit buildings who may not have access to the roof to install solar or  
23 may be unwilling to make the investment because their occupancy may only

1 be for a few years at a time. Condominium owners, especially in high-rise  
2 buildings, have similar siting barriers to commercial customers due to the low  
3 ratio of rooftop to total square footage. Approximately 20-25% of the FPL  
4 customer base cannot install rooftop because they rent or live in a condo and  
5 would not have roof-right access. Community solar offers the only real chance  
6 for these customers to directly contribute to building more solar energy.

7  
8 Businesses with renewable or sustainability goals may be especially receptive  
9 to community solar as a way for them to meet their goals due to the nature of  
10 the buildings they occupy. First, many businesses lease space with others in  
11 buildings with short-term leases. Second, even those that own their own  
12 buildings or are the sole occupant may not have the available roof space to  
13 build an array that makes a meaningful contribution to their energy needs.  
14 This problem grows for companies that occupy multi-story buildings where  
15 the ratio of rooftop square footage to total square footage may be low.  
16 According to one recent report, 48% of commercial buildings do not have  
17 enough available roof space to host a PV array that would provide more than  
18 20% of the customer's energy need.<sup>1</sup>

19 **Q. What about the price barrier?**

20 A. Regarding cost, the utility can leverage its buying power and economies of  
21 scale to purchase large-scale universal solar instead of each customer buying  
22 multiple, smaller systems. In 2018, the national average price of large-scale

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<sup>1</sup> Shared Solar: Current Landscape, Market Potential, and the Impact of Federal Securities Regulation; <https://www.nrel.gov/docs/fy15osti/63892.pdf>; April 2015.

1 PV systems was \$1.48 per watt (AC) compared to \$3.05 per watt (AC) for  
2 residential systems.<sup>2</sup>

3 **Q. What is your general conclusion regarding the proposed FPL**  
4 **SolarTogether program?**

5 A. In my opinion, FPL SolarTogether is a novel program and represents the next  
6 evolution in community solar programs, building upon existing successful  
7 community solar programs across the nation. The innovative program design  
8 demonstrates how community solar can play a major role in a utility's  
9 generation portfolio for jurisdictions where solar energy is a highly  
10 competitive form of new generation. Customer segments of the residential and  
11 commercial classes seek direct access to renewable energy products; yet  
12 meeting this need without undue cross subsidization and in a manner open to  
13 all customers has been a challenge for state commissions, utilities, and  
14 environmental and industry advocates.

15  
16 The FPL SolarTogether Program offers a new pathway for all parties, while  
17 incorporating many best practices and lessons learned from other programs.  
18 Although the FPL SolarTogether offering is big and bold, it is actually a  
19 conservative resource selection for the general body of customers with high  
20 net benefits over the life of the solar asset. This is accomplished by allocating  
21 a significant amount of the forecasted benefits to the entire customer base,  
22 while diversifying FPL's energy mix and capacity mix.

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<sup>2</sup> Q4 2018/Q1 2019 Solar Industry Update; National Renewable Energy Laboratory; May 2019.

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### III. Reasonableness of FPL SolarTogether

**Q. Have you reviewed the testimony of OPC witness Dauphinais?**

A. Yes.

**Q. Witness Dauphinais contends that the general body of customers is subsidizing the participating customers. Is this correct?**

A. As support for his contention, witness Dauphinais is focused only in those years in which the annual revenue requirement is greater than the subscription revenues received from participating customers. He is not correct with regard to the overall analysis. It is important to point out that for the remaining years, the subscription revenues are greater than the annual revenue requirement costs, resulting in lower rates to the general body of customers overall. The important thing to keep in mind when evaluating a program like FPL SolarTogether is the difference between traditional ratemaking and levelized pricing.

**Q. Please explain the difference between traditional ratemaking and levelized pricing.**

A. Under traditional ratemaking practice, the revenue requirement and associated costs that customers pay are based on a single test year. However, programs like FPL SolarTogether that use levelized pricing must have a value proposition that encompasses the entire life of the project. While the cost side of the base revenue requirement will start high and trail off as the asset is depreciated, the associated revenues will not change year-to-year. As a result,

1 a view that takes a single-year snapshot may show a revenue shortfall because  
2 the annual revenues are not tied to the annual costs. In this regard, levelized  
3 pricing programs should use a standard of review that is commonly used to  
4 evaluate construction projects. For this reason, focusing on short-term value  
5 and any associated claim of subsidization ignores the total value proposition  
6 of the program.

7 **Q. What does a long-term analysis say about the customer benefits of the**  
8 **FPL SolarTogether program?**

9 A. As with any forecast and resource decision, there is some uncertainty  
10 regarding the level of future benefits as this involves projecting fuel and CO<sub>2</sub>  
11 prices. Witness Dauphinais's scenarios represent a reasonable range of  
12 sensitivities. Using his own range shown in exhibit JRD-5, six of the nine  
13 scenarios show positive cumulative present value of revenue requirements  
14 (CPVRR) benefits, and the average benefit across all nine models of \$47.6  
15 million over the life of the program. When the sensitivity runs are revised with  
16 the updated forecast, as shown in exhibit JE-9, eight of the nine models show  
17 benefits to customers with an average value of \$268 million.

18 **Q. Witness Dauphinais offers his opinion that in a reasonable community**  
19 **solar program, subscribers pay a premium in both costs and risks over**  
20 **what the general body of customers would pay for solar energy. Do you**  
21 **agree?**

22 A. I agree that community solar programs have come in many different versions.  
23 But as I indicated earlier, FPL's proposal represents an evolution in

1 community solar programs that will better meet customer needs while  
2 providing a cost-effective solar option for all customers. Under older  
3 community solar programs in various states, the subscribers often pay more  
4 for the solar power, but only because the cost of the solar power is  
5 traditionally more expensive than a utility's other generation options.  
6 Increasingly, however, with the cost of solar PV coming down, this is no  
7 longer the case. The price that a subscriber pays for community solar is solely  
8 derived from the cost of the solar generators constructed for the program and  
9 the kWh/kW produced by the system. As the cost of solar resources continues  
10 to fall, it is perfectly reasonable to expect that the premium paid will fall or  
11 result in cost savings in the future. For example, in Arizona, both Arizona  
12 Public Service and Tucson Electric Power offer community solar programs  
13 that provide savings to participants rather than premiums. A reasonable  
14 community solar program is one where the price paid by participating  
15 customers is set to recover the costs of the program.

16 **Q. Provide an example of how such a pricing structure would work.**

17 A. The most straight-forward pricing model of the kind referenced by witness  
18 Dauphinais is the upfront purchase model. In these programs, the subscribing  
19 customers pay the all-in cost to acquire or construct their share of the  
20 community solar array before they can receive any bill credits for the output  
21 of the array. This model involves large upfront payments to the utility in the  
22 order of thousands or tens of thousands of dollars to secure a share of the  
23 array. Community solar programs that use this pricing method appear to the

1 customer no different than if the customer were to cash finance their own  
2 personal solar system.

3 **Q. Are there any downsides to such a pricing model?**

4 A. Yes. First, the high cost of entry would exclude those residential or  
5 commercial customers who do not have the cash on hand to participate.  
6 Second, while allowing customers who plan to cash finance their own solar  
7 systems to take advantage of the utility's buying power, it does not provide a  
8 true alternative to how most private solar systems are financed because most  
9 customers looking to install solar systems will either lease the system or  
10 finance the cost over time.

11 **Q. Is there another reasonable pricing model for community solar?**

12 A. A levelized pricing structure, like the one used for FPL SolarTogether,  
13 provides a better alternative for customers interested in community solar  
14 compared to the upfront pricing model. Instead of requiring customers to pay  
15 the entire cost of their shares up front, the levelized pricing effectively  
16 finances the cost and allows customers to pay for their shares over time.

17 **Q. Do you have any examples of other utilities using a levelized pricing  
18 structure for community solar?**

19 A. Yes. Madison Gas & Electric serving south-central Wisconsin has a Shared  
20 Solar program, which uses a levelized cost pricing mechanism.<sup>3</sup> In this  
21 program, the cost of the utility-owned array is levelized on a per-kWh basis

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<sup>3</sup> See Final Decision in *Re: Application of Madison Gas and Electric Company, as an Electric Public Utility, Dane County, Wisconsin, for Approval to Provide an Expansion and Modification of its Shared Solar Program*. Docket 3270-TE-104. Issued July 30, 2019.

1 over 25 years. For all energy produced by each customer's share of the array,  
2 customers pay the levelized price for each kilowatt-hour. Westar Energy in  
3 Kansas also has a community solar program that uses levelized pricing on  
4 either a per-kW or per-kWh basis.<sup>4</sup> The actual monthly charge is determined  
5 by the length of the contract, anywhere between five and 20 years.

6 **Q. Do you agree with the risk assessment for FPL SolarTogether that**  
7 **witness Dauphinais discusses?**

8 A. No. Witness Dauphinais states that FPL SolarTogether does not reduce the  
9 risks faced by the general body of customer compared to FPL constructing the  
10 solar facilities on its own. This is not an accurate depiction, and in design it is  
11 quite the opposite. Rather than having the entire customer base pay for the  
12 solar facilities through base rates, FPL is leveraging some of its customers'  
13 willingness to pay to provide clean, renewable energy for all of its customers.  
14 Naturally, many of the benefits will flow to the subscribing customers given  
15 that they are the ones paying over 100% of the base rate cost of the project.  
16 But under FPL's updated program design, 45% of the benefits go to the  
17 general body of customers. This does not happen with a traditional community  
18 solar program where risk and reward are entirely contained within the  
19 subscribing customer class.

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<sup>4</sup> See Order Approving Stipulation and Agreement in *Re: Application of Westar Energy, Inc. and Kansas City Gas and Electric Company to Make Certain Changes in Their Charges for Electric Service*. Docket 15-WSEE-115-RTS. Issued September 24, 2015.

1 **Q. What about the risk of undersubscription or customers leaving the**  
2 **program?**

3 A. This is not a valid concern. The fact of the matter is that the general body of  
4 customers still benefit from this program even if it is undersubscribed or  
5 customers leave before the full term. Assuming full subscription for the entire  
6 program life, the subscribers will pay for over 100% of the cost of the  
7 systems. Even if there were undersubscription and attrition such that only 80%  
8 of the program was subscribed in the end, the subscribers would still pay over  
9 80% of the cost of the facilities. Compare this to the alternative used by  
10 witness Dauphinais where FPL builds the systems on its own and the entire  
11 customer base pays for 100% of the cost. In that case, the entire customer base  
12 takes on 100% of the risk on the assets, like nearly all traditional generation  
13 projects. The breakthrough with the design of FPL SolarTogether is the fact  
14 that the capital projects are paid for by the customers who have the  
15 willingness to pay for the resource.

16 **Q. Is there anything else that reduces the risks to the general body of**  
17 **customers?**

18 A. Yes. First, a well-designed community solar program tries to minimize the  
19 risk of undersubscription and attrition. The best way to achieve this is by  
20 having anchor customers. An anchor customer is a stable customer, usually  
21 commercial, government, or industrial, that can buy a large share of the array  
22 on its own. These customers, like anchor tenants in a mall, provide large  
23 amounts of stable revenue and give other potential subscribers confidence that

1 the project will be viable and stable. This attracts more customers, reducing  
2 the risk of undersubscription. FPL's pre-registration resulted in several large  
3 customer subscriptions and FPL's yearly escalating credit mechanism  
4 encourages long-term commitment. The top four pre-registered customers  
5 subscribed to a combined 546 MW, or 36.6% of Phase 1, which represents a  
6 significant portion of the array that reduces risk to the general body of  
7 customers. Second, because of the ownership structure of the FPL  
8 SolarTogether assets, risk is further reduced. If in the years ahead, benefits are  
9 not being realized at the level forecasted, FPL could add battery storage to the  
10 projects to achieve additional value if it was deemed cost-effective.  
11 Additionally, at the end of the program the solar assets are essentially paid off  
12 and providing zero marginal cost energy, this affords FPL the opportunity to  
13 treat these assets as general plant thus benefiting all customers.

14

#### 15 **IV. Community Solar Pricing and Public Interest**

16

17 **Q. Have you reviewed the testimony of Vote Solar witness Cox?**

18 A. Yes.

19 **Q. Witness Cox notes that FPL SolarTogether differs from other community  
20 solar programs that completely separate participants from the other  
21 customers. Do you have a response to this?**

22 A. Witness Cox is correct that many other community solar programs are  
23 designed to keep any risks and rewards self-contained within the program.

1 **Q. That seems reasonable. Why were those programs designed that way?**

2 A. In the early days of community solar, the price of solar energy, even for large-  
3 scale universal solar, was not competitive with other resources in a utility's  
4 fleet. However, utilities wanted to be responsive to growing customer  
5 demands for new renewable sources and customers' willingness to pay for  
6 those resources. Community solar programs provided a way for the utilities to  
7 meet the demands of their customers. Responsible design of those programs,  
8 given the cost of solar at the time, required the programs to include safeguards  
9 and backstops to ensure that only those customers who wanted to participate  
10 would pay for the additional solar energy. In so doing, other customers who  
11 were either unwilling or unable to participate would not see any of the extra  
12 costs appear on their bills.

13 **Q. Are the same protections for the general body of customers required if**  
14 **the price of solar energy becomes competitive with other generating**  
15 **sources?**

16 A. No. As the price of solar energy has come down over time, large-scale  
17 universal solar is a cost-effective source of energy for many utilities. As  
18 described in the rebuttal testimony of FPL witness Enjamio, the proposed cost  
19 of the solar energy in the FPL SolarTogether program shows it to be a cost-  
20 effective source of new generation.

21 **Q. If solar is cost-competitive, how does community solar fit in the utility's**  
22 **portfolio?**

23 A. Community solar programs effectively create a new subclass of customers,

1           whose participation in the program helps to increase the amount of renewable  
2           energy in the utility's portfolio in 2020 and 2021. As the cost of other  
3           generation sources increases over time, the fixed price of the community solar  
4           arrays serves to keep costs lower for all customers. The proposed sharing of  
5           costs and benefits between the participants and the general body of customers  
6           ensures that all customers can reap some of the long-term benefits of this  
7           program.

8       **Q.    Witness Cox notes that some utilities are required to submit to prudence**  
9       **reviews if the community solar program is undersubscribed. Is that**  
10      **necessary to protect the general body of customers in this case?**

11     A.    No. As shown in Exhibit SRB-2, the benefits of the solar generation exceed  
12           the costs over the projected life of the assets. In the event of undersubscription  
13           or customer attrition, it is true that the utility will not receive the forecasted  
14           revenue in a given year. However, the utility will not have to pay the credit for  
15           that portion as well. This will increase the clause portion of the revenue  
16           requirement benefits, which will accrue to all other customers. As discussed  
17           above, the general body of customers still benefit in a world where the  
18           program is undersubscribed by virtue of not having to pay for the entire cost  
19           of the system in base rates.



1 **Q. What kinds of customers benefit the most from community solar**  
2 **programs?**

3 A. As discussed in earlier testimony, community solar programs allow  
4 customers, who want to invest in solar energy but are otherwise unable, to  
5 contribute to more solar generation. These customers include the 49% of  
6 homeowners that do not have suitable roofs for installing their own solar  
7 systems, the 35% of households that rent, or the commercial entities that do  
8 not have sufficient onsite space to offset their energy load.<sup>6</sup> Community solar  
9 programs also make investing in solar more attractive to businesses that may  
10 not have the expertise or do not have the same purchasing power on their own  
11 as the utility does.

12 **Q. Do you have any response to the discussion regarding the 25% allocation**  
13 **for residential and small business customers?**

14 A. FPL witness Valle goes into the allocation in more detail in his testimony. I  
15 would like to note that a specified allocation dedicated to residential  
16 customers is used by some other community solar programs such as that  
17 offered by Alliant Energy.<sup>7</sup> For a program the size of FPL SolarTogether, the  
18 relative percentage is not as important as the absolute size of the allocation.  
19 For perspective, the residential and small business portion of FPL  
20 SolarTogether by itself would be the second largest community solar program  
21 in the country, and the total program size of 1.4 GW is greater than the total

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<sup>6</sup> Shared Solar: Current Landscape, Market Potential, and the Impact of Federal Securities Regulation; <https://www.nrel.gov/docs/fy15osti/63892.pdf>; April 2015.

<sup>7</sup> See Final Decision in *Application of Wisconsin Power and Light Company, as an Electric Public Utility, to Update its Renewable Energy Tariff*. Docket 6680-TE-104. Issued July 19, 2019.

1 installed capacity from all other community solar programs combined.<sup>8</sup>

2 **Q. Does this conclude your rebuttal testimony?**

3 A. Yes.

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<sup>8</sup> Xcel Energy has over 504 MW of community solar in its Minnesota program. *Sharing the Sun: Community Solar Project List*; updated June 2019.

1                   (Whereupon, Witness Deason's prefiled rebuttal  
2 testimony was inserted into the record as though read.)

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1 **Q. Please state your name and business address.**

2 A. My name is Terry Deason. My business address is 301 S. Bronough  
3 Street, Suite 200, Tallahassee, Florida 32301.

4 **Q. By whom are you employed and in what capacity?**

5 A. I am employed by Radey Law Firm as a Special Consultant specializing  
6 in the fields of energy, telecommunications, water and wastewater, and  
7 public utilities generally.

8 **Q. Please describe your educational background and professional  
9 experience.**

10 A. I have more than 40 years of experience in the field of public utility  
11 regulation spanning a wide range of responsibilities and roles. I served  
12 a total of seven years as a consumer advocate in the Florida Office of  
13 Public Counsel (“OPC”) on two separate occasions. In that role, I  
14 testified as an expert witness in numerous rate proceedings before the  
15 Florida Public Service Commission (“Commission”). My tenure of  
16 service at OPC was interrupted by six years as Chief Advisor to Florida  
17 Public Service Commissioner Gerald L. Gunter. I left OPC as its Chief  
18 Regulatory Analyst when I was first appointed to the Commission in  
19 1991. I served as Commissioner on the Commission for 16 years,  
20 serving as its chairman on two separate occasions. Since retiring from  
21 the Commission at the end of 2006, I have been providing consulting  
22 services and expert testimony on behalf of various clients, including  
23 public service commission advocacy staff, county and municipal

1 governments, and regulated utility companies. I have also testified  
2 before various legislative committees on regulatory policy matters. I  
3 hold a Bachelor of Science Degree in Accounting, summa cum laude,  
4 and a Master of Accounting, both from Florida State University.

5 **Q. For whom are you appearing as a witness?**

6 A. I am appearing as a witness for Florida Power & Light Company  
7 (“FPL” or the “Company”).

8 **Q. Have you previously submitted direct testimony in this proceeding?**

9 A. No.

10 **Q. Are you sponsoring any rebuttal exhibits?**

11 A. Yes. I am sponsoring Exhibit JTD-1, which is my curriculum vitae.

12 **Q. What is the purpose of your rebuttal testimony?**

13 A. The purpose of my rebuttal testimony is to respond to some of the  
14 positions and recommendations contained in the testimony of OPC  
15 witness James R. Dauphinais. I also respond to the policy issues raised  
16 by Commission Staff witness Cayce Hinton.

17 **Q. How is your rebuttal testimony organized?**

18 A. My rebuttal testimony is organized into three sections. Section I  
19 addresses the broad policy considerations of FPL’s SolarTogether  
20 community solar program. Section II addresses some of the specific  
21 criticisms of FPL SolarTogether raised by witness Dauphinais. Section  
22 III is my conclusion.

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## I. POLICY CONSIDERATIONS

**Q. Does Florida have a policy on the provisioning of renewable energy?**

A. Yes, the Legislature has made a finding that it is in the public interest to promote the development of renewable energy and has recognized the potential for renewable energy to increase fuel diversity, lessen dependence on natural gas, minimize fuel cost volatility, improve environmental conditions, and encourage investment within Florida. This can be found in Section 366.92 (1), Florida Statutes.

**Q. What is the Commission's policy?**

A. The Commission has a policy to promote the development of renewable energy in Florida, consistent with Section 366.92 (1), Florida Statutes, and appropriately considers the benefits of renewable energy as well as potential impacts on the costs of power supply to electric utilities and their customers. The Commission's policy is also appropriately evolving as the relevant technologies, especially solar-based technologies, continue to develop along with customers' desires for solar generation to comprise a growing portion of electric power generation within Florida.

**Q. How has the Commission's policy evolved thus far?**

A. In the early years of implementing its policy, the Commission gave emphasis to customer-owned renewable generation and the adoption of

1 net-metering rules to facilitate customer-owned renewable generation.  
2 As the cost of solar generation continued to decline, especially for  
3 large-scale universal solar generation, the Commission recognized the  
4 importance and the inherent cost, environmental, and fuel diversity  
5 advantages of utilities making significant solar additions to their  
6 systems for the benefit of all of their customers. Thus, the  
7 Commission's implementation of legislative policy and the promotion  
8 of renewables has evolved to appropriately recognize the role of large-  
9 scale universal solar. This evolution has and continues to be driven by  
10 the strong desire of customers to see more solar generation generally  
11 and for some customers to gain the advantages of solar generation who  
12 cannot or choose not to invest in their own private solar facilities. As a  
13 corollary to this evolution, the Commission appropriately considers the  
14 overall cost-effectiveness of large-scale universal solar facilities and  
15 their potential impacts on the general body of customers.

16 **Q. Do you believe that the cost-effectiveness of FPL's SolarTogether**  
17 **Program and its potential impact on the general body of customers**  
18 **to be relevant considerations?**

19 A. Yes. The cost-effectiveness of the proposed solar facilities planned for  
20 the FPL SolarTogether Program is a first-step consideration to  
21 determine if the Program is in the public interest. If the planned  
22 facilities were not cost-effective to build, operate, and maintain, they  
23 would not be pursued.

1 **Q. Does witness Hinton take issue with the cost-effectiveness of the**  
2 **facilities planned for the FPL SolarTogether Program?**

3 A. No. My reading of his testimony is that he does not express an opinion  
4 one way or the other on the Program's cost-effectiveness. Rather, for  
5 his purposes, he assumes the cost-effectiveness to be a given in order to  
6 raise other policy issues that he identifies in his testimony.

7 **Q. What is the essence of the issues raised by witness Hinton?**

8 A. Witness Hinton acknowledges that the proposed FPL SolarTogether  
9 Program has elements that are different from other solar programs  
10 approved in the past. Given these differences, he outlines certain  
11 questions centered on protecting all customers and preventing any  
12 undue preference or harm.

13 **Q. Do you agree with the policy issues identified by witness Hinton?**

14 A. I agree that the issues raised are relevant. And because witness Hinton  
15 takes no stated positions on the issues he raises, I cannot say that I  
16 either agree or disagree. I do take some minor exceptions to some of  
17 his implications and suggest that his issues be considered within the  
18 context of other broad policy considerations beyond those he identifies.

19 **Q. What are these broad policy considerations to which you refer?**

20 A. There are four broad policy considerations that I believe need to be part  
21 of the discussion when considering the issues raised by witness Hinton  
22 and some of the intervenor witnesses as well. First, regulation needs to  
23 be open to new and innovative ways to capture benefits for customers.

1 This is particularly true when technologies, economics and customer  
2 expectations change. The FPL SolarTogether Program is indeed new  
3 and innovative and is designed to meet customer expectations that did  
4 not exist in the past to the extent they do today. Accordingly, there are  
5 elements designed to make the program successful that have not been  
6 previously implemented in a Florida PSC-approved program.  
7 However, this should not eliminate the proposal from due consideration  
8 and appropriate scrutiny. After all, the Commission is to regulate in the  
9 public interest and is to liberally construe its statutory jurisdiction to  
10 achieve that purpose. As such, the ultimate test is whether the FPL  
11 SolarTogether Program, taken in its entirety, is in the public interest.  
12 There are other broad policy considerations that can and should be used  
13 to assist the Commission to make a determination as to whether the  
14 FPL SolarTogether Program is in the public interest.

15  
16 Second is the broad policy of protecting customers from cross  
17 subsidizations and undue preferences. This is achieved by designing  
18 rates to recover costs allocated to customers based on their cost  
19 responsibility. The standard is that no customer or group of customers  
20 be harmed by the rates charged to or offerings made to other customers,  
21 *i.e.*, a “do no harm” standard. In the case of the FPL SolarTogether  
22 Program, not only is there no harm, there are substantial benefits for all  
23 customers. Thus, the FPL SolarTogether Program exceeds this

1 standard and provides additional assurances to the general body of  
2 customers.

3  
4 Third is the policy to promote renewable energy. While a strict cost-  
5 effectiveness test and a proper allocation of costs are essential, there are  
6 important considerations that go beyond those considerations. As I  
7 earlier identified, the Commission should weigh the benefits to  
8 customers of increased fuel diversity, a lessened dependence on natural  
9 gas, minimization of fuel cost volatility, improved environmental  
10 conditions, and increased investment in Florida. The FPL  
11 SolarTogether Program would be a means both to achieve these goals  
12 and help ensure a significant increase of solar generation in Florida.

13  
14 And fourth is the need for regulation to be responsive to the needs of  
15 customers and to provide options where appropriate. This is  
16 particularly true and relevant for customers wanting to ensure  
17 additional solar generation. There was a time when customers looked  
18 at electricity as a commodity with little or no regard for where the  
19 electrons originated and by what technology they were generated. This  
20 has greatly changed, and many customers now desire, and perhaps  
21 expect, that their electrons should be from a renewable source. If  
22 regulation can enable this expectation to be met in a way that protects  
23 all customers, or even shares the benefits with them, it would be

1 incumbent on regulation to do so. The FPL SolarTogether Program is a  
2 means to achieve this result.

3 **Q. What are the specific policy questions raised by witness Hinton?**

4 A. There are three specific questions, and I will briefly address the first  
5 two together before I address the third. First, witness Hinton asks: “If  
6 generating facilities are being built to meet the desires of a certain  
7 portion of customers, should all the benefits and costs of the program  
8 be allocated to those customers as the cost causer?” He then follows  
9 with the second question: “In addition, if solar additions are now a cost-  
10 effective generation addition to all customers, is it appropriate to  
11 implement a voluntary program that allocates the majority of benefits to  
12 a small group of customers?” These two questions are closely related  
13 and appear to be contrasting the FPL SolarTogether Program with the  
14 traditional approach of assigning costs to cost causers when there are  
15 net incremental costs being imposed on the system. However, this is  
16 not the situation with FPL SolarTogether. There are not net  
17 incremental costs; rather, FPL SolarTogether would help ensure that net  
18 incremental benefits are being generated for all customers. In essence,  
19 the customers wishing to receive more solar generation by participating  
20 in the FPL SolarTogether Program are not “cost causers” as that term is  
21 traditionally used. Rather these customers are better described as  
22 “benefit facilitators.”

1 So, while it may be theoretically possible to assign all benefits and  
2 costs to the FPL SolarTogether Program, it would not be wise to do so  
3 for at least two reasons. First, the FPL SolarTogether Program,  
4 achieves a reasonable balancing of benefit sharing and cost allocation.  
5 Witness Hinton's questions appear to imply a judgment that the sharing  
6 of benefits is skewed in favor of the FPL SolarTogether participants.  
7 This is an assertion that the ultimate facts in this case will address. So,  
8 I will temporarily place that assertion aside. Suffice it to say that if the  
9 balance of cost responsibility and benefit sharing is materially altered, it  
10 may place the entire proposal in jeopardy. And secondly, any attempt  
11 to place all benefits and costs on one subset of customers, while well  
12 intentioned, will most likely not achieve its intended purpose of  
13 completely shielding all customers from any potential cost impacts. It  
14 is very possible that any such attempt would have the unintended  
15 consequence of denying the general body of customers any opportunity  
16 to share in the benefits, while still exposing them to potential cost  
17 impacts. So, in a situation where there are no net new costs, but rather  
18 net new benefits, would it not be better to allow the general body of  
19 customers an opportunity to share in those benefits? I answer that  
20 question in the affirmative. This would actually provide a greater level  
21 of protection than an attempt to isolate them from all costs and all  
22 benefits.

1 **Q. Can you provide an example of the Commission's traditional**  
2 **approach of assigning costs to cost causers when there are net**  
3 **incremental costs being imposed on the system?**

4 A. Yes, and it is in sharp contrast to what is being proposed in the FPL  
5 SolarTogether Program. A good example is the Commission's decision  
6 to allow customers the choice of opting out of receiving advanced or  
7 smart meters. As utilities rolled out smart meter technology, the  
8 Commission recognized the strong desire of a segment of customers to  
9 retain their existing meters. The Commission decided to allow  
10 customers to choose to opt out of smart meters and approved a rate  
11 rider to recover the net incremental costs of providing this optional  
12 service. As there were no benefits and only net incremental costs of  
13 this optional service, the Commission simply estimated the net  
14 incremental costs and spread them over the customers choosing the  
15 optional service. While this was an appropriate outcome to protect the  
16 general body of customers, it does not fit the economics or the design of  
17 the FPL SolarTogether Program.

18 **Q. Does the smart meter opt-out rate rider protect the general body of**  
19 **customers?**

20 A. That is what it is designed to do, and I believe that it does so in great  
21 measure. However, it does not guarantee that there is no impact on the  
22 general body of customers. The general body of customers is the  
23 backstop and may be called upon to make up the difference, to the

1 extent the rate rider does not cover all of the net incremental costs.  
2 Likewise, to the extent that the rate rider provides revenues that exceed  
3 the net incremental costs, the general body of customers would benefit  
4 until the rate rider is reset, either as part of a rate case or a tariff-specific  
5 filing. The point is that there are no projected net benefits to the  
6 general body of customers of the option to not have a smart meter, and  
7 when customers choose this option, the general body of customers is  
8 placed at risk. This is not the case for the FPL SolarTogether Program,  
9 which does project net incremental benefits to the general body of  
10 customers.

11 **Q. What is the third question posed by witness Hinton?**

12 A. Witness Hinton's third question reads: "Finally, does this allocation of  
13 costs and benefits between participants and non-participants represent  
14 undue discrimination or preference?" I answer this question in the  
15 negative. Recall that the participants in the FPL SolarTogether  
16 Program are not cost causers. Rather they are better described as  
17 benefit facilitators. The benefits they facilitate are then shared with all  
18 customers. Thus, the general body of customers is not harmed, which  
19 is generally understood to be required before there is a finding of undue  
20 discrimination or preference. I do acknowledge that the Commission  
21 has the discretion to judge whether the sharing of costs and benefits are  
22 apportioned fairly. However, I do not agree that the FPL SolarTogether  
23 Program can be determined to be unduly discriminatory on its face.

1 **Q. Before posing his three questions, witness Hinton states that the**  
2 **FPL SolarTogether Program seems to represent a departure from**  
3 **least-cost planning principles. Do you agree with this assertion?**

4 A. No. I do acknowledge that the FPL SolarTogether Program contains  
5 elements that have never been implemented before. In large part, this is  
6 necessitated by the strong desire of some customers to be responsible  
7 for an increase solar generation and to eliminate or substantially reduce  
8 their reliance on fossil-fuel generation. Nevertheless, I believe that the  
9 FPL SolarTogether Program is consistent with least-cost planning  
10 principles as they are generally understood.

11 **Q. How is the FPL SolarTogether Program consistent with least-cost**  
12 **planning principles?**

13 A. To some extent, the term least-cost planning is a misnomer. It is  
14 possible that the best generation expansion plan is not the least-cost  
15 plan, as there are a number of other strategic considerations that could  
16 result in the best or preferred plan not being the least-cost plan. I like to  
17 look at it as “best cost” planning. Nevertheless, to the extent the term  
18 least cost implies that a generation expansion plan should be cost-  
19 effective, the FPL SolarTogether Program certainly meets this criterion  
20 and is based on achieving the lowest electric rates.

21 **Q. What are some of the other strategic considerations in judging**  
22 **whether a generation expansion plan is appropriate?**

23 A. Witness Hinton correctly notes that the traditional means of granting a

1           need determination for generating units of 75 megawatts or more is set  
2           forth in Florida’s Power Plant Siting Act (PPSA). While the proposed  
3           solar facilities to be constructed as part of the FPL SolarTogether  
4           Program are less than 75 megawatts per site and are not required to  
5           come before the Commission in a need determination proceeding, the  
6           PPSA does provide some guidance to the Commission. In addition to  
7           cost-effectiveness, the PPSA also requires the Commission to consider  
8           fuel diversity and whether renewable generation is being utilized to the  
9           extent reasonably available. Given that the planned solar facilities will  
10          help to ensure the increase in fuel diversity and are indeed from a  
11          renewable energy source, the FPL SolarTogether facilities would meet  
12          these planning criteria. In addition to the PPSA, the Legislature has  
13          declared that it is in the public interest to promote renewable energy. In  
14          Sections 366.91 and 366.92, Florida Statutes, the Legislature identifies  
15          a number of benefits of Florida-based renewable energy. Among these  
16          benefits are measures to minimize fuel cost volatility, improve  
17          environmental conditions and increase investments within Florida.  
18          These would certainly be benefits derived from the solar facilities  
19          planned as part of the FPL SolarTogether Program.

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## II. DAUPHINAIS CRITICISMS

**Q. What are the criticisms arising from OPC witness Dauphinais’s testimony that you will address?**

A. There are essentially four: the shape of the curves depicting the forecasted cumulative present value of revenue requirement (CPVRR) savings; his assertion that generational cross subsidies would result; his assertion that certain sensitivity assumptions are inapplicable; and his assertion that the costs, benefits, and risks of the FPL SolarTogether Program are not being fairly allocated.

**Q. Please comment on the shape of the curves depicting the forecasted CPVRR savings.**

A. The overall shape of the forecasted CPVRR savings, showing significant net costs in the early years followed by a gradual increase in savings until the curve turns positive in the later years, is not surprising and should be expected. This is a natural result of how revenue requirements are determined to set rates. The initial capital investment associated with new generation facilities is incurred on the front end and has an almost immediate and significant impact on revenue requirements. This is in contrast with the savings the new generation facilities produce over the useful life of the generating facilities. In the case of new solar facilities, these savings include both lower operating and maintenance costs and much lower fuel costs, as the fuel for solar is

1 free. Witness Dauphinais implies that this delay in the curve becoming  
2 positive is indicative of the risks of the proposed solar facilities on the  
3 general body of customers and on a subset of customers he labels non-  
4 participants. However, planning for cost-effective generation that has a  
5 life of 30 years or more inherently involves risk. It is a natural factor of  
6 planning for the longer term as opposed to skewing outcomes by  
7 placing too much emphasis on facilities that may turn positive sooner  
8 but that do not produce as much total savings. Witness Dauphinais's  
9 calculations show that the timeframe for the non-participants curve  
10 becoming positive is four years later than the curve for all customers.  
11 Assuming his calculations are correct, I do not find that the four-year  
12 extension is that significant enough to conclude that the general body of  
13 customers is placed in a scenario of too much risk. This is particularly  
14 true given the strategic advantages offered by solar generation. The  
15 important point is that the net savings are positive, which benefits all  
16 customers.

17 **Q. Please comment on witness Dauphinais's assertion that there would**  
18 **be generational cross subsidies.**

19 A. This is a classic example of a "red herring" argument that has no basis  
20 in determining the merits of the FPL SolarTogether Program or any  
21 other proposal that requires an economic analysis of long-lived assets to  
22 cost-effectively serve customers. It inappropriately attempts to pit the  
23 interests of one group (generation) of customers against another. It is

1 also inconsistent with the way that rates are set and cross subsidies  
2 avoided for the benefit of all customers. Policy should be driven by  
3 what benefits all customers over the long run and not by divisive  
4 approaches which focus on the short run.

5 **Q. Please explain.**

6 A. Regulation in Florida is focused on the general body of customers and  
7 goes to great lengths to set rates that are fair, just and reasonable and  
8 that do not foster cross-subsidies among customers. This is apparent in  
9 both the nature of and the extent to which costs are recognized in rates,  
10 as well as in the structure of the rates themselves. The Commission has  
11 rules dealing with cost-of-service studies and many years of precedent  
12 to ensure that rates are set equitably and on a non-discriminatory basis.  
13 This entire regulatory approach is based on the fact that benefits to all  
14 customers are maximized when decisions are made for the benefit of all  
15 customers over a continuum of time. This is simply axiomatic.  
16 Conversely, if decisions were made to protect only one generation of  
17 customers, as witness Dauphinais suggests, outcomes would be focused  
18 on the short term and the maximization of benefits for all customers  
19 over the long run could not be achieved.

20 **Q. Witness Dauphinais asserts that today's customers would be**  
21 **subsidizing customers 20 years from now. Do you agree with this**  
22 **assertion?**

23 A. No. Witness Dauphinais simply loses focus on how regulation works to

1 protect customers as a whole and to maximize benefits to them over the  
2 long term. Even if one were to attempt to stratify customers by age – a  
3 truly untenable and unworkable approach – it would not be possible to  
4 conclude that one generation of customers is being treated unfairly. For  
5 example, the existing customers, who witness Dauphinais asserts will  
6 be subsidizing a future generation of customers, are indeed the  
7 beneficiaries of previous investments made decades ago that continue  
8 to provide them with service. Under witness Dauphinais’s logic, they  
9 would now be subsidized by a previous generation of customers. Such  
10 overly broad conclusions are not appropriate and, if attempted, could  
11 lead to inappropriate decision making that would jeopardize the  
12 maximum benefit for all customers over the long term.

13 **Q. Please describe witness Dauphinais’s assertions concerning certain**  
14 **sensitivity analyses’ assumptions.**

15 A. FPL performed eight sensitivity analyses in addition to its base case  
16 analysis of the CPVRR of net savings associated with the FPL  
17 SolarTogether Program. The eight sensitivity analyses used different  
18 combinations of assumptions for fuel costs (high, medium and low) and  
19 carbon dioxide compliance costs (high, medium and low). As would be  
20 expected, the scenarios with higher fuel costs and higher carbon dioxide  
21 compliance costs showed higher cost-effectiveness for the FPL  
22 SolarTogether Program.

1           Witness Dauphinais opined that the sensitivity analyses with  
2           combinations of medium and low fuel costs and medium and low  
3           carbon dioxide compliance costs (showing lower or no net savings)  
4           should receive greater weight. He states that there are now no carbon  
5           dioxide compliance requirements and that there is currently an  
6           abundance of natural gas. He opines that these are justifiable reasons to  
7           place greater emphasis on the scenarios tending to show lower or no net  
8           savings.

9           **Q. Do you agree with witness Dauphinais's opinion?**

10          A. No, for three reasons. First, it defeats the fundamental purpose of a  
11          sensitivity analysis to give greater weight to a select few scenarios. The  
12          fundamental purpose of a sensitivity analysis is to provide unbiased  
13          information to a decision maker on the effect on results from the full  
14          array of potential changes in the underlying assumptions. Cherry  
15          picking which scenarios to emphasize could lead to distorted  
16          conclusions. Second, the reasons given by witness Dauphinais are too  
17          narrowly focused on present conditions and do not recognize significant  
18          changes from present conditions which could happen over the 30-year  
19          time horizon of the CPVRR analyses.

20

21          Simply because there are not presently carbon dioxide compliance  
22          requirements does not mean that this situation will continue. Likewise,  
23          an abundance of natural gas, largely due to advanced extraction

1 technologies like fracking, does not mean that this will persist over 30  
2 years. It should be noted that most, if not all, of the leading Democrats  
3 seeking their party's nomination to run for President, have stated firm  
4 support for initiatives to combat global warming and have come out in  
5 opposition to fracking. While I am not a political prognosticator, I do  
6 believe it is evident that concerns over carbon dioxide emissions and  
7 fracking are growing in the American consciousness. As a  
8 consequence, I believe it would be short-sighted and ill advised to  
9 emphasize those sensitivity analyses which tend to discount these  
10 changing dynamics. And third, the sensitivity analyses witness  
11 Dauphinais suggests be de-emphasized are the very ones that give  
12 useful information on the reasons that Florida has a policy of promoting  
13 renewable energy. As I previously stated, the foundation of this policy  
14 includes: the need for increased fuel diversity; a lessened dependence  
15 on natural gas; minimization of fuel cost volatility; and improvement of  
16 environmental conditions.

17 **Q. What is witness Dauphinais's ultimate conclusion and**  
18 **recommendation concerning the FPL SolarTogether Program?**

19 A. He concludes that the costs, benefits, and risks of the FPL  
20 SolarTogether Program are not being fairly allocated and recommends  
21 that the FPL SolarTogether Program not be approved by the  
22 Commission.

1 **Q. Do you agree with his conclusion and recommendation?**

2 A. No, for a number of reasons. First, planning for and deploying assets  
3 with lives of 30 or more years, like those envisioned as part of the FPL  
4 SolarTogether Program, is an inherently risky undertaking. However, if  
5 benefits are to be maximized and the interests of customers met over  
6 the long term, it is an undertaking that must take place. This is an  
7 undertaking that the Commission has successfully accomplished and  
8 effectively regulated over many decades. The tools utilized by the  
9 Commission to make these decisions are effective and can be applied to  
10 the FPL SolarTogether Program. When applied, they reveal that the  
11 FPL SolarTogether Program is cost-effective for all customers. The  
12 simple fact is that should witness Dauphinais's recommendation be  
13 accepted, all customers will miss out on this innovative and cost-  
14 effective program.

15  
16 Second, Florida and the Commission have a policy of promoting  
17 renewable energy. The FPL SolarTogether Program is an innovative  
18 approach to furthering the development of renewable energy on a large  
19 scale and in a cost-effective manner. And by approving the FPL  
20 SolarTogether Program, Florida and its rate-paying citizens will have  
21 assurance to obtain the strategic benefits I previously identified, such  
22 as: increased fuel diversity; a lessened dependence on natural gas;  
23 minimization of fuel cost volatility; improvement of environmental

1 conditions; and an increased investment in Florida.

2

3 Third, the Commission has a policy of meeting the earnest desires of  
4 customers, as long as it can be done cost-effectively or in a manner that  
5 does not cause harm to the general body of customers. The FPL  
6 SolarTogether Program is designed to cost-effectively ensure additional  
7 renewable generation to customers who have this earnest desire,  
8 whether it be because of their inability to deploy customer-owned solar,  
9 or because of their social consciousness, or a combination of the two.  
10 The FPL SolarTogether Program not only meets the needs of these  
11 customers, it does so in a manner that creates and shares benefits with  
12 all customers. In essence, customer choice would be expanded while  
13 preserving the protections of Commission regulation. This approach  
14 actually provides more protection to the general body of customers than  
15 trying to isolate the program only to participants.

16

17 And fourth, witness Dauphinais has not considered a degree of risk that  
18 would likely result, should the FPL SolarTogether Program not be  
19 approved. It should be recognized that there is a large and growing  
20 number of customers who believe it is imperative that their energy  
21 needs be met largely, if not entirely, from renewable sources. Should  
22 the opportunities afforded them by the FPL SolarTogether Program be  
23 denied to them, they would likely seek other alternatives outside of the

1 advantages provided by large-scale universal solar. Among the many  
2 advantages of large-scale universal solar is the retention of the loads of  
3 these customers and their contributions toward the fixed costs of all  
4 customers. A significant loss of load would be harmful to the  
5 remaining general body of customers and would constitute a significant  
6 risk factor on a going forward basis.

7 **Q. Witness Dauphinais's conclusion is driven largely by risk factors.**  
8 **Are there any other risk factors which should be part of the**  
9 **Commission's deliberations in this proceeding?**

10 A. Yes, and I have identified it generally as part of my discussion on  
11 Florida's renewable energy policy. However, I believe it needs to be  
12 put in proper context based on personal experience.

13 **Q. Please explain.**

14 A. During my sixteen-year tenure on the Commission, I experienced first-  
15 hand the risk on customers from fuel price volatility. The large  
16 increases in natural gas prices and the associated extreme price  
17 volatilities caused great disruptions to customers. Whether it was  
18 impacts on large industrial customers and their abilities to successfully  
19 manage their operations and remain competitive or families struggling  
20 to budget their household expenses, the impacts were large. They  
21 caused great concern, anxiety, and angst for customers. And it needs to  
22 be stressed that natural gas generation now comprises a larger portion  
23 of generation than it did during those times. Fortunately, gas prices are

1 now stable and are relatively low compared to historical levels. This is  
2 a good thing. However, I fear that these good times may have resulted  
3 in a certain degree of complacency or even a false sense of security  
4 when it comes to risks associated with potential price spikes. It is for  
5 these reasons that I feel it is important to consider the risk of fuel price  
6 volatility and potential ways to mitigate that risk. Even as large as the  
7 FPL SolarTogether Program is, it will not eliminate this risk. However,  
8 it is a meaningful step in the right direction. It is a new and innovative  
9 tool being proposed to equip the Commission to better protect all  
10 customers. This fact should not be lost when the Commission considers  
11 the risks and benefits of the FPL SolarTogether Program and whether  
12 FPL SolarTogether, taken in its entirety, is in the public interest.

13

14

### III. CONCLUSION

15

16 **Q. What is your conclusion?**

17 A. Regulation needs to be open to new and innovative ways to capture  
18 benefits for customers. This is particularly true when technologies,  
19 economics, and customer expectations change. The FPL SolarTogether  
20 Program is indeed new and innovative and is designed to capture these  
21 changes and meet customer expectations by establishing a balance of  
22 the costs and benefits provided to all customers. As such, there are  
23 elements designed to make the program successful which have not been

1 so structured in the past. Nevertheless, this structure is consistent with  
2 Commission policies on protecting all customers and preventing any  
3 undue preference or harm. And while not subject to the PPSA, the  
4 solar facilities envisioned are consistent with the planning criteria for  
5 new generating units of 75 megawatts or higher.

6  
7 When the FPL SolarTogether Program is adequately scrutinized and  
8 evaluated, it is shown to be a cost-effective approach which benefits all  
9 customers and enables large deployments of solar generation which is  
10 consistent with Florida's policy of promoting renewable energy,  
11 including efforts to minimize fuel price volatility. In addition, the FPL  
12 SolarTogether Program meets the needs of customers desiring greater  
13 generation from renewable sources and does so in a manner that creates  
14 and shares benefits with all customers. This approach actually provides  
15 more protection to the general body of customers than trying to isolate  
16 the program only to participants.

17 **Q. Does this conclude your rebuttal testimony?**

18 A. Yes, it does.

1 CHAIRMAN CLARK: All right. FPL, does that  
2 conclude your witnesses?

3 MS. MONCADA: For this portion of the case,  
4 yes.

5 CHAIRMAN CLARK: All right. Okay. Let's go  
6 to OPC. Mr. Rehwinkel --

7 MR. TRIERWEILER: Mr. Chairman, if we could,  
8 staff doesn't care when we take this up, but there  
9 were two questions that were punted by the last  
10 witness, Mr. Bores, back to Mr. Valle. They're two  
11 quick questions. We certainly don't mind taking  
12 them up when Mr. Valle retakes the stand in his  
13 supplemental rebuttal, but I don't know if --

14 MS. MONCADA: No objection.

15 MR. TRIERWEILER: Then that's what we'll do.  
16 We'll just take up those two at the very end.  
17 Thank you.

18 CHAIRMAN CLARK: Perfect. Thank you.

19 All right, Mr. Rehwinkel. Your witness.

20 MR. REHWINKEL: The citizens call James R.  
21 Dauphinais to the stand.

22 CHAIRMAN CLARK: Mr. Dauphinais, you were  
23 sworn in yesterday, is that correct?

24 THE WITNESS: Yes, I was.

25 EXAMINATION

1 BY MR. REHWINKEL:

2 Q Thank you. Mr. Dauphinais, would you state  
3 your name for the record, please?

4 A James R. Dauphinais, D-A-U-P-H-I-N-A-I-S.

5 Q Are you -- can you tell me on whose behalf  
6 you're testifying today?

7 A The Florida Office of Public Counsel.

8 Q And are they here representing all the  
9 customers of Florida Power & Light?

10 A Yes.

11 Q Mr. Dauphinais, did you cause to be prepared  
12 testimony, direct testimony, on September 12th, 2019,  
13 consisting of some 41 pages?

14 A Yes.

15 Q Do you have any changes or corrections to make  
16 to that testimony?

17 A No.

18 Q Okay. Mr. Dauphinais, if I asked you the same  
19 questions that are in your prefiled direct testimony,  
20 would your answers be the same today as they were in  
21 that prefiled testimony?

22 A Yes.

23 Q Did you also cause to be prepared exhibits  
24 JRD1 through JRD7?

25 A Yes.

1           Q     Okay. Do you have any changes or corrections  
2 to make to those exhibits?

3           A     No.

4           Q     Okay.

5                   MR. REHWINKEL: Mr. Chairman, exhibits JRD1  
6 through JRD7 are identified in the CEL as Exhibits  
7 12 through 18.

8                   CHAIRMAN CLARK: Thank you.

9 BY MR. REHWINKEL:

10           Q     Mr. Dauphinais, did you also cause to be  
11 prepared 33 pages of testimony, supplemental direct  
12 testimony, that was filed on November 15th 2019?

13           A     Yes.

14           Q     Do you have any changes -- did you have any  
15 changes or corrections to that testimony?

16           A     Two pages to that testimony were corrected  
17 and, I believe, filed.

18           Q     Okay. Is that the January 9th errata, two  
19 pages of errata that were filed and are included in the  
20 comprehensive exhibit list?

21           A     Yes.

22           Q     With those changes and corrections to your  
23 testimony, if I asked you the same questions today that  
24 were contained in your prefiled testimony, would your  
25 answers be the same?

1 A Yes.

2 Q Okay. Did you also cause to be prepared  
3 Exhibits JRD8 through JRD12?

4 A Yes.

5 Q And do you have any changes or corrections to  
6 make to those exhibits?

7 A No.

8 MR. REHWINKEL: Mr. Chairman, those exhibits  
9 are Exhibits 19 through 23 in the CEL.

10 CHAIRMAN CLARK: Thank you.

11 BY MR. REHWINKEL:

12 Q Mr. Dauphinais, did you prepare a summary of  
13 your prefiled testimonies?

14 A Yes.

15 Q Would you give that summary to the Commission  
16 at this time?

17 A Sure. Good afternoon, Commissioners. My  
18 testimony in this proceeding addresses FPL's proposed  
19 SolarTogether program as FPL has modified its proposal  
20 in its rebuttal testimony in its October 9th, 2019  
21 non-unanimous stipulation. My testimony also addresses  
22 the lack of need and poor economics of FPL's proposed  
23 generation facilities for the program.

24 As I discussed in my testimony, the  
25 SolarTogether program is only a voluntary program for

1 those FPL customers that are both eligible to  
2 participate and able to participate. This group of  
3 customers amounts to only approximately three percent of  
4 FPL's total retail sales. For FPL's remaining  
5 customers, or approximately 97 percent of FPL's total  
6 retail sales, the SolarTogether program would not be  
7 voluntary, as these customers would not have the ability  
8 to participate in the SolarTogether program and would be  
9 required to bear the cost and risk of the program that  
10 FPL is assigning to its customer as a whole.

11 Under the SolarTogether program, FPL is  
12 proposing to treat the 490 megawatts alternating current  
13 of SolarTogether generation facilities exactly the same  
14 as it would typically treat other generation additions,  
15 except in two respects. Just like it typically does  
16 with other generation resources, FPL proposes to place  
17 its investment in the SolarTogether generation  
18 facilities into its rate base. This holds FPL customers  
19 as a whole rather than customers participating in the  
20 program ultimately responsible for the capital cost of  
21 these generation facilities.

22 Similarly, just like it typically does with  
23 other generation resources, FPL proposes to pass through  
24 the actual impact of the SolarTogether generation  
25 facilities on its fuel and emission cost through the

1 fuel clause. This holds FPL's customer as a whole  
2 rather than participating customers responsible for the  
3 commodity cost risk associated with the SolarTogether  
4 generation facilities. Where FPL's SolarTogether  
5 program differs from typical rate-making is its net  
6 payment of 137 million dollars to customers that are  
7 participating in the program. This payment is funded by  
8 FPL's customers as a whole and will be paid regardless  
9 of the actual construction cost of the SolarTogether  
10 generation facilities and regardless of whether the  
11 generation facilities provide a net benefit or net cost  
12 to FPL's customers as a whole.

13           Given that approximately 97 percent of FPL's  
14 sales to customers as a whole would be customers not  
15 participating in the SolarTogether program, the 137  
16 million dollar payment amounts to non-participating  
17 customers paying a 133 million dollar subsidy to those  
18 that are participating in the program. A reasonable  
19 voluntary community solar program would have its  
20 participants pay extra in order for the utility to  
21 pursue additional solar generation facilities that it  
22 would not otherwise pursue. That is not what would  
23 happen under FPL's proposal. Instead, non-participating  
24 customers would be required to pay a nearly guaranteed  
25 subsidy of 133 million dollars to participating

1 customers. For this reason, FPL's proposed  
2 SolarTogether program should be found unreasonable and  
3 reject it.

4 In addition, FPL's proposed SolarTogether  
5 generation facilities should be rejected. As I  
6 discussed in my testimony, while these facilities might  
7 eventually be useful for addressing FPL's future  
8 capacity needs for reliability, FPL does not need this  
9 capacity for reliability at this time. Furthermore, FPL  
10 has indicated that it would not have been pursuing all  
11 of this generation but for its proposed SolarTogether  
12 program.

13 Finally, the SolarTogether program presents a  
14 significant risk of net cost to FPL's customers now  
15 participating in a program, which is the vast majority  
16 of FPL's customers. For all of these reasons, I also  
17 recommend the Commission reject FPL's proposal to place  
18 the SolarTogether generation facilities into its rate  
19 base. Thank you.

20 MR. REHWINKEL: Mr. Chairman, I need to move  
21 Mr. Dauphinais' September 12th and November 15th  
22 as-corrected testimony into the record.

23 CHAIRMAN CLARK: So ordered.

24 (Whereupon, Witness Dauphinais' prefiled  
25 direct and supplemental testimony was inserted

1           into the record as though read.)

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**DIRECT TESTIMONY**  
**OF**  
**JAMES R. DAUPHINAIS**  
On Behalf of the Office of Public Counsel  
Before the  
Florida Public Service Commission  
Docket No. 20190061-EI

1

**I. INTRODUCTION**

2 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

3 A. James R. Dauphinais. My business address is 16690 Swingley Ridge Road,  
4 Suite 140, Chesterfield, MO 63017.

5

6 **Q. WHAT IS YOUR OCCUPATION?**

7 A. I am a consultant in the field of public utility regulation and a Managing  
8 Principal of Brubaker & Associates, Inc. (“BAI”), energy, economic and regulatory  
9 consultants.

10

11 **Q. ON WHOSE BEHALF ARE YOU APPEARING IN THIS PROCEEDING?**

12 A. I am appearing on behalf of the Florida Office of Public Counsel (“OPC”).

1 **Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND.**

2 A. In 1983, I graduated from Hartford State Technical College with an Associate's  
3 Degree in Electrical Engineering Technology. Subsequently, I completed  
4 undergraduate studies at the University of Hartford and was awarded a Bachelor's  
5 Degree in Electrical Engineering. I have also completed graduate level courses in the  
6 study of power system analysis, power system transients and power system protection  
7 through the Engineering Outreach Program of the University of Idaho.

8

9 **Q. PLEASE DESCRIBE YOUR EXPERIENCE.**

10 A. I have over 34 years of experience in the electric utility industry, which began  
11 with the start of my employment as an Engineering Technician in the Transmission  
12 Planning Department of the Northeast Utilities Service Company (“NU,” now  
13 “Eversource Energy”) in 1984. In 1990, upon the completion of my undergraduate  
14 studies in electrical engineering, I was promoted to the position of Associate Engineer  
15 within the Transmission Planning Department. By 1996, I had been promoted to the  
16 position of Senior Engineer within the Transmission Planning Department.

17 In the employment of NU, I was responsible for conducting thermal, voltage  
18 and stability analyses of the NU’s electric transmission system to support planning and  
19 operating decisions. This involved the use of load flow, power system stability and  
20 production cost computer simulations. It also involved examination of potential  
21 solutions to operational and planning problems including, but not limited to,  
22 transmission line solutions and the routes that might be utilized by such transmission  
23 line solutions.

1           In 1997, I joined the firm of BAI. The firm includes consultants with  
2 backgrounds in accounting, engineering, economics, mathematics, computer science  
3 and business. Since my employment with the firm, I have been involved with a wide  
4 variety of electric power and electric utility issues including, but not limited to ancillary  
5 service rates, avoided cost calculations, certification of public convenience and  
6 necessity, class cost of service, cost allocation, fuel adjustment clauses, fuel costs,  
7 generation interconnection, interruptible rates, market power, market structure, off  
8 system sales, prudence, purchased power costs, resource planning, rate design, retail  
9 open access, standby rates, transmission losses, transmission planning, transmission  
10 rates and transmission line routing. I have provided expert testimony on all of the  
11 foregoing. This expert testimony has been provided to the Federal Energy Regulatory  
12 Commission (“FERC”) and the utility regulatory bodies of 18 states or provinces,  
13 including the Florida Public Service Commission (“Commission” or “FPSC”). I  
14 provide further information on my education and background in Appendix A to my  
15 testimony.

16  
17 **Q. PLEASE ELABORATE ON YOUR EXPERIENCE WITH RESPECT TO**  
18 **RESOURCE PLANNING ISSUES.**

19 A.           During my employment with NU, prior to the implementation of FERC Order  
20 Nos. 888 and 889, the transmission planning organization within whom I was  
21 employed was integrated with, and part of, the same functional organization as  
22 Northeast Utilities’ generation planning organization. This integration led to  
23 significant involvement by transmission planning, including myself, in resource

1 planning analyses (e.g., the analysis of the potential net benefit of retirement of existing  
2 generation resources) and resource planning in transmission planning analyses (e.g.,  
3 whether to proceed with economic transmission upgrades). In addition, while  
4 employed at NU, I made significant usage of the General Electric Company Multi-Area  
5 Production Simulator (“MAPS”) to analyze the generation production costs associated  
6 with various transmission operating and planning alternatives on the NU system.

7 Subsequently, during my employment with BAI since 1997, I have become  
8 further involved with resource planning issues, initially in support of my colleagues at  
9 BAI and later in a lead position. This work has included the review of electric utility  
10 resource plans, the review of proposed certificates of public convenience and necessity  
11 for new electric utility generation resources, the forecasting of future market prices, the  
12 forecasting of future utility rates and the evaluation of long-term power supply options.  
13 I have conducted this work both for intervenors in regulatory proceedings and specific  
14 retail end-use customer clients of BAI who were evaluating their future power supply  
15 options. I have also been extensively involved in the development of Independent  
16 System Operator (“ISO”) and Regional Transmission Organization (“RTO”) -  
17 administered power markets including, but not limited to, issues related to markets for  
18 energy, operating reserves and capacity.

19

20 **Q. PLEASE IDENTIFY SOME OF THE CASES IN WHICH YOU PROVIDED**  
21 **TESTIMONY WITH RESPECT TO RESOURCE PLANNING ISSUES.**

22 A. In the past 14 years, I have provided testimony on resource planning and/or the  
23 prudency issues related to resource planning in Indiana Utility Regulatory Commission

1 (“IURC”) Cause No. 42643, Louisiana Public Service Commission (“LPSC”) Docket  
 2 No. U-30192, IURC Cause No. 43393, IURC Cause No. 43396, Colorado Public  
 3 Utilities Commission (“CPUC”) Docket Nos. 09A-324E and 09A-325E, IURC Cause  
 4 No. 43956, IURC Cause No. 44012, New Mexico Public Regulatory Commission  
 5 (“NMPRC”) Case No. 13-00390-UT, NMPRC Case No. 15-00261-UT, NMPRC Case  
 6 No. 17-00174-UT and FPSC Docket Nos. 160186-EI and 160170-EI (with respect to  
 7 Scherer Unit 3 in the 2016 Gulf Power Company base rate case).

8 In a number of these proceedings, I had either extensive involvement in the  
 9 review of the utility’s Strategist® analysis or had a Strategist® analysis performed  
 10 under my direction and supervision, based upon data provided by subject utility.<sup>1</sup>

11

12 **Q. WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY IN THIS**  
 13 **DOCKET?**

14 A. I present testimony with respect to Florida Power & Light Company’s  
 15 (“FPL’s”) proposed SolarTogether community solar program (“SolarTogether  
 16 Program”), which FPL’s Petition categorizes as a voluntary program. My evaluation,  
 17 analysis and recommendation includes whether pursuit of the 1,490 MW of alternating  
 18 current (“MW<sub>AC</sub>”) of new solar photovoltaic generation facilities FPL proposes to  
 19 construct at 20 different sites under Phase 1 of the SolarTogether Program is reasonable

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<sup>1</sup>Strategist®, which includes a module called Proview®, is a computer software tool produced by Ventyx that allows resource planners to examine a very large number of alternative resource portfolios with the goal of identifying through an optimization algorithm the most cost effective resource portfolio for an electric utility. It can also be used in a probabilistic mode to test the robustness (i.e., risk) of specific resource portfolios over a wide range of assumption variations. Strategist® is currently utilized, and has been utilized, by many electric utilities to conduct their resource planning. Other commercial software tools that have some or all of the functionality of Strategist® include software tools such as System Optimizer®, PLEXOS®, Aurora XMP® and EnCompass®.

1 for FPL's customers as a whole, absent support from a reasonable voluntary solar  
2 program (which I will describe later below). Assuming it is even prudent to add this  
3 amount of generation in the first place, my testimony also examines whether FPL has  
4 adequately considered all the options available to add the 1,490 MW<sub>AC</sub> of new solar  
5 generation such that it ensures FPL's proposed construction of the facilities is the most  
6 cost efficient manner for reliably adding this new solar generation (e.g., versus  
7 providing for all or some of the solar generation through Purchased Power Agreements  
8 ("PPAs") or other third-party arrangements such as build and acquisition  
9 arrangements). Finally, I explore whether FPL's proposed split of benefits and costs  
10 between itself, its customers who can and do opt to participate in the SolarTogether  
11 Program ("Participating Customers"), and its customers who do not or cannot  
12 participate in the SolarTogether Program ("Non-Participating Customers") is  
13 reasonable.

14 The fact that I do not address any other particular issues in my testimony or am  
15 silent with respect to any portion of FPL's Petition or direct testimony in this  
16 proceeding should not be interpreted as an approval of any position taken by FPL.

17  
18 **Q. YOU INDICATE THAT FPL'S PETITION CATEGORIZES THE**  
19 **SOLARTOGETHER PROGRAM AS A VOLUNTARY PROGRAM. WOULD**  
20 **YOU CONSIDER IT BE A VOLUNTARY PROGRAM?**

21 A. Not entirely. It would be voluntary from the perspective of a FPL customer  
22 who could and did choose to subscribe to the program to become a Participating  
23 Customer pursuant to the terms and conditions of the program. However, the costs and

1 risks that would be imposed on Non-Participating Customers by the SolarTogether  
2 Program would be involuntary for Non-Participating Customers. Non-Participating  
3 Customers would have no choice but to take on those costs and risks.

4

5 **Q. CAN YOU PLEASE EXPLAIN WHAT YOU MEAN BY A REASONABLE**  
6 **VOLUNTARY SOLAR PROGRAM?**

7 A A reasonable voluntary solar program is one in which Participating Customers  
8 take on sufficient cost and risk for a solar project such that it substantially reduces the  
9 cost and risk faced by the utility's Non-Participating Customers versus what the latter  
10 customers would be exposed to for the solar project absent the voluntary solar program.  
11 Ideally, under such a reasonable voluntary solar program, the Participating Customers  
12 and/or the utility voluntarily choose to subsidize additional solar power development  
13 in such a manner that Non-Participating Customers are not economically harmed by  
14 the pursuit of the additional solar power development. Later in this testimony, I address  
15 whether FPL's proposed SolarTogether program is a reasonable voluntary solar  
16 program.

1 **Q. YOU HAVE USED THE TERMS “PARTICIPATING CUSTOMERS,”**  
2 **“NON-PARTICIPATING CUSTOMERS,” AND “FPL’S CUSTOMERS AS A**  
3 **WHOLE.” PLEASE EXPLAIN THESE TERMS AND WHETHER FPL USED**  
4 **THESE TERMS IN ITS PETITION AND DIRECT TESTIMONY.**

5 A. I use the term Participating Customers to refer to those FPL customers who can  
6 and do voluntarily choose to subscribe to FPL’s proposed SolarTogether Program. FPL  
7 used this same term in its Petition and direct testimony (e.g., Valle Direct at 3).

8 I use the term Non-Participating Customers to refer to those FPL customers  
9 who either have not chosen to subscribe to the SolarTogether Program or are unable to  
10 subscribe to the SolarTogether Program. In its petition and direct testimony, FPL used  
11 the confusing term “FPL’s general body of customers” for these customers instead of  
12 “Non-Participating Customers” (e.g., see Valle Direct at 4). The term “general body  
13 of customers” is confusing because it could be easily mistaken to mean all of FPL’s  
14 customers, in other words, Participating Customers and Non-Participating Customers  
15 combined. Thus, for clarity in my testimony, in place of FPL’s term “general body of  
16 customers,” I have chosen to instead use the more accurate term “Non-Participating  
17 Customers” to mean those FPL customers who either have not chosen to subscribe to  
18 the SolarTogether Program or are unable to subscribe to the SolarTogether Program.

19 I use the term “FPL’s customers as a whole” to refer to Participating Customers  
20 and Non-Participating Customers combined. FPL does not use this term or any other  
21 term for Participating and Non-Participating Customers combined. Instead, when  
22 speaking of an impact to FPL’s customers as a whole, FPL typically speaks in terms of

1 the total impact on customers (e.g., Petition at paragraph 20, FPL response to Citizens’  
2 Interrogatory No. 5, Valle Direct at 4 and Enjamio Direct at 10).

3

4 **Q. PLEASE DESCRIBE WHAT YOU REVIEWED AND ANALYZED IN**  
5 **PREPARING YOUR DIRECT TESTIMONY.**

6 A. I reviewed and analyzed: (i) FPL’s Petition; (ii) the Direct Testimony and  
7 Exhibits of its witnesses Matthew Valle, William F. Brannen, Juan E. Enjamio and  
8 Scott R. Bores; (iii) the October 6, 2016 Stipulation and Settlement in FPL’s last base  
9 rate case proceeding (Docket Nos. 160021-EI, 160061-EI, 160062-EI and 160088-EI);  
10 (iv) FPL’s March 1, 2019 solar base rate adjustment (“SoBRA”) filing in Docket No.  
11 20190001-EI; (v) FPL’s Ten-Year Power Plant Site Plan for 2019-2028 that was  
12 submitted to the Commission in April 2019; and (vi) FPL’s responses to Interrogatories  
13 and Requests for Production of Documents as of the date this testimony was filed with  
14 the Commission. I applied my knowledge and experience in conducting my review  
15 and analyses of the foregoing.

16

17 **Q. PLEASE SUMMARIZE YOUR CONCLUSIONS AND RECOMMENDATIONS.**

18 A. I conclude the following:

- 19
- 20 • FPL has not shown it needs additional resources in 2020 and 2021 and that its  
21 1,490 MW<sub>AC</sub> of proposed solar generation facilities under Phase 1 of its  
22 SolarTogether Program would be the most cost effective solution to reliably meet  
23 such an additional resource need for FPL’s customers as a whole, absent the  
implementation of a reasonable voluntary solar program to support the facilities;
  - 24 • FPL has not shown its proposed construction of all of the Phase 1 SolarTogether  
25 projects is the most cost effective option to reliably add 1,490 MW<sub>AC</sub> of new solar  
26 generation for either FPL’s Participating Customers or its Non-Participating  
27 Customers, assuming this solar generation was needed; and

- 1
- 2 • FPL’s proposed SolarTogether Program does not provide a reasonable allocation
- 3 of the benefits, costs and risks of the proposed SolarTogether Phase 1 projects
- 4 between FPL, Participating Customers, and Non-Participating Customers.
- 5

6 For the above reasons, I recommend that the Commission deny FPL’s petition

7 for its proposed SolarTogether Program, including any approval related to increasing

8 rate base sought by FPL for its proposed Phase 1 SolarTogether solar generation

9 projects.

10

11 **II. FPL’S PHASE 1 SOLARTOGETHER**

12 **PROPOSAL TO ADD 1,490 MW<sub>AC</sub> OF SOLAR GENERATION**

13 **Q. YOU HAVE INDICATED THAT, UNDER PHASE 1 OF FPL’S**

14 **SOLARTOGETHER PROGRAM, 1,490 MW<sub>AC</sub> OF NEW SOLAR**

15 **GENERATION WOULD BE ADDED ACROSS 20 SITES OF 74.5 MW<sub>AC</sub>**

16 **EACH. HAS FPL IDENTIFIED WHETHER IT WOULD BE PURSUING THIS**

17 **NEW SOLAR GENERATION WITH OR WITHOUT ITS PROPOSED**

18 **SOLARTOGETHER PROGRAM?**

19 **A.** In discovery, FPL indicated the 1,490 MW<sub>AC</sub> of solar generation proposed

20 under Phase 1 of its proposed SolarTogether Program includes: (i) 900 MW<sub>AC</sub> of

21 nameplate non-solar base rate adjustment (“Non-SoBRA”) solar capacity that is shown

22 in its 2019 Ten-Year Site Plan (“TYSP”) resource plan for 2020 and 2021 and (ii) an

23 acceleration of part of the solar capacity FPL identified in its 2019 TYSP resource plan

24 for years 2022 – 2024 (FPL’s response to Citizens’ Interrogatory No. 8).<sup>2</sup> FPL also

25 indicated that it intends to proceed with construction of the 900 MW<sub>AC</sub> of nameplate

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<sup>2</sup>In Exhibit JRD-6, I have provided a copy of all of FPL’s public responses to interrogatories and requests for production of documents that I cite to in my direct testimony.

1 solar capacity even if its proposed SolarTogether Program is not approved by the  
2 Commission (*Id.*). Additionally, in its direct testimony, FPL indicated that Projects 1  
3 and 2 of Phase 1 of the proposed SolarTogether Program, totaling 447 MW<sub>AC</sub>, are  
4 already under construction (Brannen Direct at 5). Furthermore, FPL has indicated that  
5 it intends to complete Projects 1 and 2 and to seek to place them into its rate base in its  
6 next base rate proceeding, regardless of whether the Commission approves its proposed  
7 SolarTogether Program (FPL's response to Citizens' Interrogatory No. 26). Given this,  
8 it is important to examine whether the Phase 1 SolarTogether projects are the most cost  
9 effective option to reliably meet FPL's resource needs for FPL's customers as a whole.

10

11 **Q. HAS FPL IN ITS PETITION, DIRECT TESTIMONY, OR RESPONSES TO**  
12 **DISCOVERY AS OF THE DATE OF THIS TESTIMONY DEMONSTRATED**  
13 **THAT THE 1,490 MW<sub>AC</sub> OF PHASE 1 SOLARTOGETHER PROJECTS ARE**  
14 **THE MOST COST EFFECTIVE MANNER TO RELIABLY MEET FPL'S**  
15 **RESOURCE NEEDS?**

16 A. No, it has failed to make this demonstration. FPL has only provided an analysis  
17 that it claims shows the Phase 1 SolarTogether projects are cost effective under an  
18 assumed set of postulated conditions. In that analysis, under FPL's base case  
19 assumptions, the Phase 1 SolarTogether projects are forecasted to provide a Cumulative  
20 Present Value Revenue Requirement ("CPVRR") net savings of \$139 million to FPL's  
21 customers as a whole over the 30-year book life of the projects under the cost  
22 effectiveness test that FPL is authorized to use only for its SoBRA projects. (Petition  
23 at paragraphs 7 and 19-22; Enjamio Direct at 3-4, 6 and 10; and FPL's response to

1 Staff's Interrogatory No. 39). In discovery, FPL further indicated it defines a project  
2 or resource cost effective when it results in a lower CPVRR than the alternative. (FPL's  
3 response to Staff's Interrogatory No. 24).

4

5 **Q. PLEASE EXPLAIN WHY FPL'S COST EFFECTIVENESS TEST FAILS TO**  
6 **DEMONSTRATE THAT THE PHASE 1 SOLARTOGETHER PROJECTS ARE**  
7 **THE MOST COST EFFECTIVE MANNER FOR FPL TO RELIABLY MEET**  
8 **ITS RESOURCE NEEDS.**

9 A. The test does not consider the cost risk of one alternative versus another,  
10 especially with respect to the length of time that needs to pass before FPL's customers  
11 as a whole would receive a payback from the Phase 1 SolarTogether projects. As I  
12 discuss later in my testimony, FPL put a heavy emphasis on providing a payback to the  
13 Participating Customers from the SolarTogether Program within seven years in order  
14 to meet the desires of those customers interested in the program. (Valle Direct at 12).  
15 Yet, in applying the SoBRA cost effectiveness test to evaluate the Phase 1  
16 SolarTogether projects for FPL's customers as a whole, FPL does not take payback  
17 time into consideration at all.

18 **Q. PLEASE EXPLAIN THE TERM "PAYBACK."**

19 A. Payback occurs when the cumulative revenue requirement net benefit of an  
20 investment becomes positive. It can be expressed in terms of either: (i) nominal dollars,  
21 which FPL refers to as "simple payback" (Valle Direct at 11-12), or (ii) present value  
22 dollars. The latter approach, which I will refer to as the "cumulative present value  
23 payback," is the more appropriate approach as it properly takes into consideration the

1 time value of money in terms of utility cost of capital. A cumulative present value  
2 payback occurs when the CPVRR net benefit of an investment becomes positive.

3

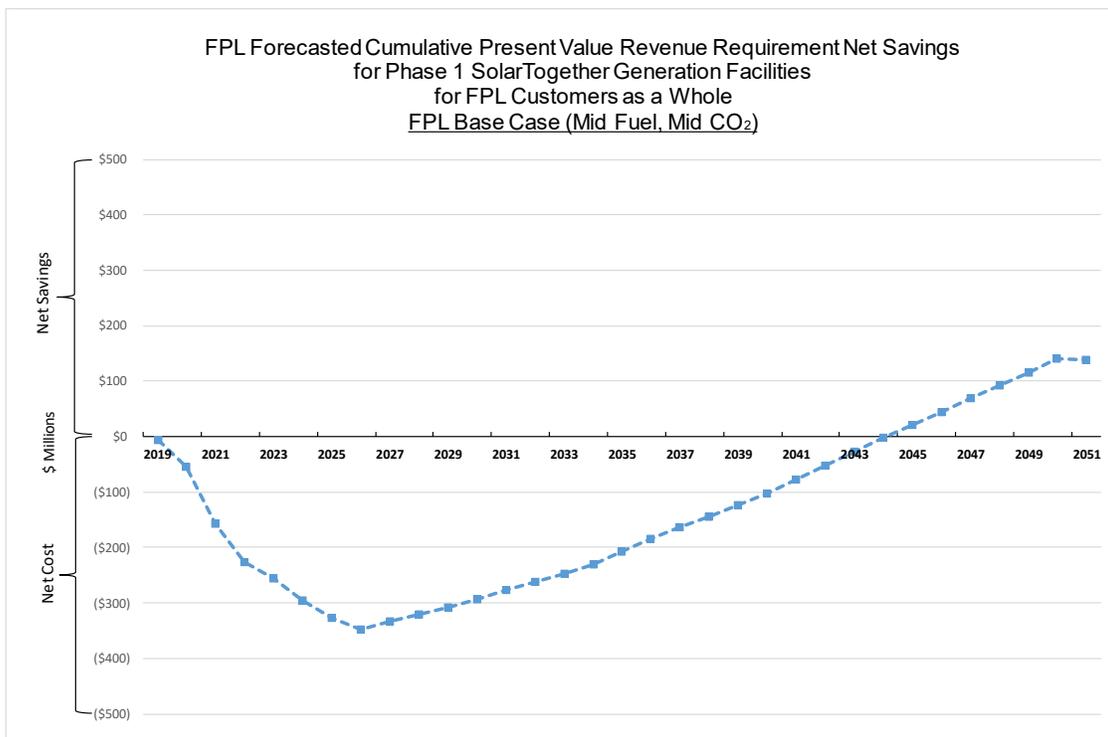
4 **Q. PLEASE EXPLAIN WHY THE TIME IT TAKES TO ACHIEVE A PAYBACK**  
5 **MATTERS.**

6 A. The forecasted benefits from an investment do not always necessarily flow  
7 evenly over the life of an investment, if at all. The forecasted benefits from a particular  
8 investment can fall predominately in the earlier years of the book life of the investment,  
9 in the later years of the book life of the investment, or be spread fairly evenly over the  
10 book life of the investment. While discounting later year costs and benefits through  
11 the net present value calculation accounts for the lower level of lost investment  
12 opportunity associated with later year costs and benefits, it does not account for the fact  
13 that there is generally greater uncertainty as you go out in time. This is to say we can  
14 better predict most benefits and costs two to three years from now than we can predict  
15 those benefits and costs 22 to 23 years into the future.

1 **Q. DOES FPL’S ANALYSIS CONTAIN SUFFICIENT INFORMATION TO**  
 2 **KNOW THE FORECASTED CUMULATIVE PRESENT VALUE PAYBACK**  
 3 **YEAR FOR FPL’S CUSTOMERS AS A WHOLE FOR THE PHASE 1**  
 4 **SOLARTOGETHER PROJECTS?**

5 A. Yes. While FPL does not present the number in its petition or direct testimony,  
 6 it can be calculated from FPL’s workpapers that were provided by FPL in response to  
 7 Staff’s Interrogatory No. 78. In Figure JRD-1 below, I have plotted the forecasted  
 8 CPVRR net savings of the Phase 1 Solar Together projects for FPL’s customers as a  
 9 whole year-by-year from 2019-2051 under FPL’s base case fuel and emission price  
 10 assumptions. I also present this information in tabular form in Exhibit JRD-1.

**Figure JRD-1**



Source: FPL Response to Staff Interrogatory No. 78.

1           As can be seen from Figure JRD-1, at the end of the book life of the last of the  
2 installed Phase 1 SolarTogether projects in 2051, FPL is forecasting a CPVRR net  
3 savings of \$139 million for the Phase 1 SolarTogether projects for FPL's customers as  
4 a whole. However, the cumulative present value payback year for FPL's customers as  
5 a whole is not forecasted to materialize, under FPL's base case assumptions, until 2045  
6 – some 24 years after the last of the Phase 1 SolarTogether projects would enter service  
7 in 2021. This makes the actual realization of a cumulative present value payback for  
8 FPL's customers as a whole much riskier than, for example, if the forecasted  
9 cumulative present value payback year was only 10 years into the future and net savings  
10 were forecasted to consistently grow after those 10 years.

11  
12 **Q. DOES THE TIME TO ACHIEVE A CUMULATIVE PRESENT VALUE**  
13 **PAYBACK MATTER FOR OTHER REASONS BESIDES THE GREATER**  
14 **RISK ASSOCIATED WITH ACTUALLY REALIZING THAT PAYBACK?**

15 A.           Yes. Utility investments with a long cumulative present value payback period  
16 create generational cross-subsidies between ratepayers. For example, many of the  
17 customers who pay electric rates today will not be the same customers who pay electric  
18 rates 20 years from now or may have very different demand and consumption levels  
19 than they do today. As a result, a utility investment made today that does not have a  
20 forecasted cumulative present value payback until 20 years from now will likely result  
21 in today's electric customers of FPL subsidizing its electric customers of 20 years from  
22 now, since today's customers would likely pay a lion's share of the costs of the

1 investment while FPL's customers 20 years from now would likely receive the lion's  
2 share of the benefits from that investment.

3

4 **Q. ARE THERE ADDITIONAL FACTORS THAT SHOULD BE CONSIDERED**  
5 **WHEN EVALUATING WHETHER A PROPOSED PROJECT IS THE MOST**  
6 **COST EFFECTIVE CHOICE TO RELIABLY MEET THE RESOURCE NEED**  
7 **OF A UTILITY?**

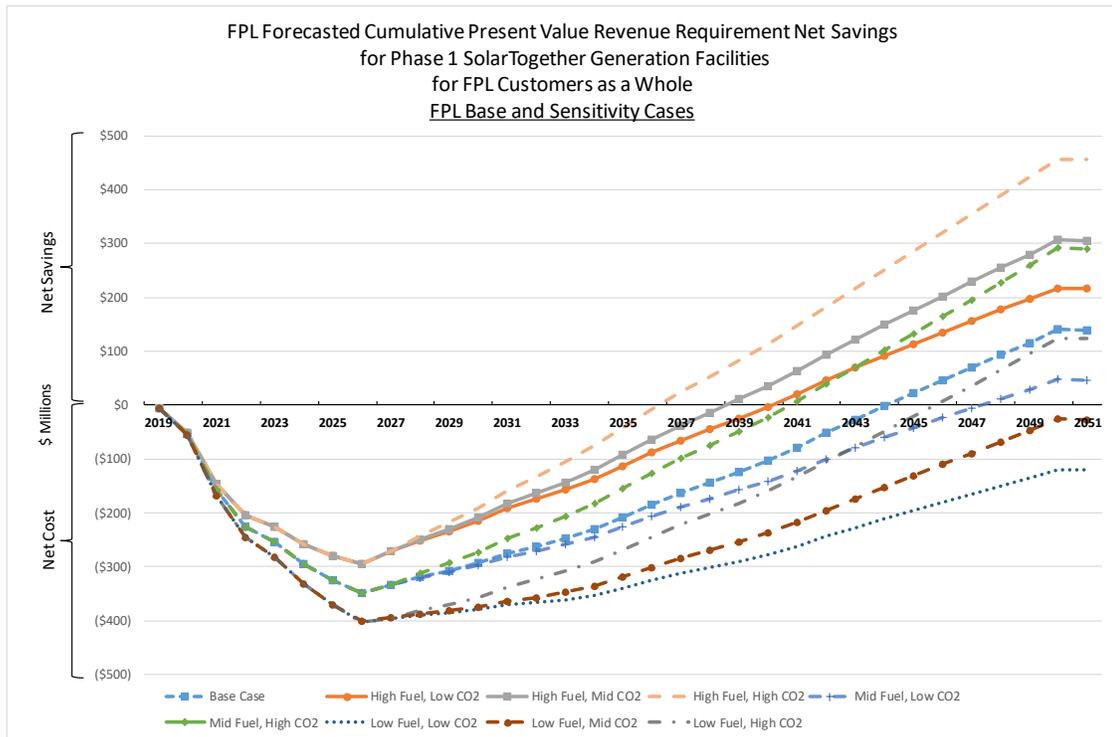
8 A. Yes. Specifically, reviewers should consider the sensitivity of the forecasted  
9 results to the underlying assumptions when making an analysis. In particular, it is  
10 prudent to consider the sensitivity of the results to assumed natural gas prices and CO<sub>2</sub>  
11 emission prices, as they can have a major impact on forecasted values when evaluating  
12 different resource options.

13

14 **Q. DID FPL UNDERTAKE SUCH A SENSITIVITY ANALYSIS?**

15 A. While FPL makes no mention of any sensitivity analysis in its Petition or direct  
16 testimony, FPL did in fact run eight sensitivity cases in addition to its base case that  
17 used FPL's midlevel fuel and CO<sub>2</sub> emission price assumptions. The results of these  
18 sensitivity cases were provided as part of FPL's response to Staff's Interrogatory No.  
19 78. In Figure JRD-2, I plot the year-by-year CPVRR net savings for FPL's customers  
20 as a whole for each of FPL's eight sensitivity cases and FPL's base case. I also present  
21 this information in tabular form in Exhibit JRD-2.

Figure JRD-2



1           As can be seen from Figure JRD-2, a very wide range of outcomes can result  
 2           by 2051 under FPL’s sensitivity cases. The results from these sensitivity cases range  
 3           from a \$121 million CPVRR net loss for the Phase 1 SolarTogether projects under  
 4           FPL’s low fuel and low CO<sub>2</sub> price case, to a \$456 million CPVRR net savings under  
 5           FPL’s high fuel cost and high CO<sub>2</sub> cost case. However, I would caution that, given  
 6           there is no CO<sub>2</sub> emission regulation in place today and predictions indicate the current  
 7           great abundance of natural gas in the United States will continue in the foreseeable  
 8           future, it is my opinion greater weight should be placed on (1) FPL’s base case, (2)  
 9           FPL’s mid fuel and low CO<sub>2</sub> price case, (3) FPL’s low fuel and mid CO<sub>2</sub> price case,  
 10          and (4) FPL’s low fuel and low CO<sub>2</sub> price case, than on any of FPL’s other sensitivity  
 11          cases involving high fuel prices and/or high CO<sub>2</sub> emission prices. The four FPL cases

1 with only medium and/or low price assumptions yield results for FPL's customers as a  
2 whole that range from no cumulative present value payback (with a forecasted end-state  
3 CPVRR net loss of \$121 million) to a cumulative present value payback for the  
4 SolarTogether projects at 24 years after the last of the Phase 1 projects would enter  
5 service (with a forecasted end-state CPVRR net savings of \$139 million for the  
6 projects).

7

8 **Q. IN YOUR OPINION, DO THE RESULTS OF FPL'S ANALYSES SUPPORT**  
9 **THE ADDITION OF THE PHASE 1 SOLARTOGETHER PROJECTS BEING**  
10 **THE MOST COST EFFECTIVE SOLUTION FOR FPL'S CUSTOMERS AS A**  
11 **WHOLE TO RELIABLY MEET FPL'S CURRENT RESOURCE NEEDS?**

12 A. No, they do not. Given that the indicators point to abundant natural gas for the  
13 foreseeable future and that no CO<sub>2</sub> emission regulation is in place today (or approved  
14 or expected to go into effect in the near future), the focus should be on FPL's results  
15 under its four cases involving only low and medium price assumptions for natural gas  
16 and CO<sub>2</sub> emissions. Results for these four cases show an end-state where there is nearly  
17 an equal likelihood of a CPVRR net loss or a CPVRR net benefit for FPL's customers  
18 as a whole. Taking this into consideration and combined with the generational  
19 cross-subsidies and greater risk with respect to actually realizing a cumulative present  
20 value payback associated with the lengthy 24-year cumulative present value payback  
21 period forecasted under even the most optimistic of these four cases (FPL's base case  
22 with mid-level fuel and mid-level CO<sub>2</sub> emission prices), I conclude that FPL's proposed  
23 Phase 1 SolarTogether projects are not FPL's most cost effective reliable resource

1 option at this time for FPL’s customers as a whole without support from a reasonable  
2 voluntary solar program. Moreover, it is important to note that FPL has already made,  
3 and is in the process of making, other 74.5 MW<sub>AC</sub> solar generation investments with  
4 very similar economics through the SoBRA provisions of the 2016 Stipulation and  
5 Settlement (“2016 Settlement”) in FPL’s last base rate proceeding. It is my  
6 understanding that those provisions are highly specific to the unique circumstances of  
7 the 2016 Settlement. Specifically, between its 2017, 2018 and 2019 SoBRA projects,  
8 FPL has added a total of 894 MW<sub>AC</sub> of solar generation (through sites of 74.5 MW<sub>AC</sub>  
9 each) and has proposed an additional 298 MW<sub>AC</sub> of solar generation (through more  
10 sites of 74.5 MW<sub>AC</sub> each) for its 2020 SoBRA project. Given the current borderline of  
11 economics discussed above for new utility-scale solar generation, it does not make  
12 sense to “double down” on FPL’s 1,192 MW<sub>AC</sub> of SoBRA solar generation additions  
13 by pursuing the Phase 1 SolarTogether projects without support for those projects from  
14 a reasonable voluntary solar program.

15  
16 **Q. DOES THE SOBRA APPROVAL STANDARD OUTLINED IN THE 2016**  
17 **SETTLEMENT HAVE PRECEDENTIAL EFFECT IN THIS CASE?**

18 A. No, it does not. When I inquired about the SoBRA approval standard, counsel  
19 for OPC showed me Paragraph 24 of the 2016 Settlement, which reads as follows:

20 No party will assert in any proceeding before the Commission or any  
21 court that this Agreement or any of the terms in the Agreement shall  
22 have any precedential value, except to enforce the provisions of this  
23 Agreement.

24 Based on this reading, as a witness and expert in electric utility regulation (in  
25 addition to resource planning), I would not expect that the 2016 Settlement provides a  
26

1 precedential basis for evaluating the cost-effectiveness of the SolarTogether projects.  
2 I would certainly not recommend it to this Commission as a reasonable or even  
3 meaningful standard to approve over \$1.7 billion in new generation assets of any type.<sup>3</sup>  
4

5 **Q. IT WAS SUFFICIENT FOR FPL'S SOBRA PROJECTS TO GAIN**  
6 **COMMISSION APPROVAL BY FPL SIMPLY SHOWING THOSE PROJECTS**  
7 **WERE COST EFFECTIVE FOR FPL'S CUSTOMERS AS A WHOLE UNDER**  
8 **FPL'S BASE CASE ASSUMPTIONS. PLEASE EXPLAIN WHY SUCH A**  
9 **DEMONSTRATION IS NOT APPROPRIATE FOR FPL'S PHASE 1**  
10 **SOLARTOGETHER PROJECTS?**

11 A. Section 10 of the 2016 Settlement in FPL's last base rate proceeding  
12 specifically provided for approximately 300 MW<sub>AC</sub> of solar projects for each calendar  
13 year within a defined term. It also limited the evaluation of the cost effectiveness of  
14 these projects to testing whether they lower FPL's projected CPVRR as compared to  
15 FPL's CPVRR without the project. Under the specifically negotiated terms of that  
16 2016 Settlement, demonstration of "most cost effectiveness" is not required and there  
17 is no consideration of payback and price risks. However, the terms of the  
18 2016 Settlement are limited to the SoBRA projects provided for in the Stipulation and  
19 Settlement. They do not apply to any other resource proposals of FPL. Thus, passing  
20 the SoBRA cost effectiveness test has no bearing upon, and is not sufficient for, the  
21 proposed Phase 1 SolarTogether projects.

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<sup>3</sup>FPL is estimating the total cost of the Phase 1 SolarTogether projects to be \$1.79 million (Brannen Direct at 10).

1 **Q. PUTTING ASIDE THE FACT THAT FPL HAS FAILED TO DEMONSTRATE**  
2 **THAT PURSUIT OF ITS PROPOSED PHASE 1 SOLARTOGETHER**  
3 **PROJECTS IS THE MOST COST EFFECTIVE ALTERNATIVE FOR**  
4 **RELIABLY MEETING ITS RESOURCE NEEDS, HAS FPL MADE ANY**  
5 **DEMONSTRATION IN ITS PETITION AND DIRECT TESTIMONY THAT IT**  
6 **NEEDS TO MAKE ANY RESOURCE ADDITIONS TO ITS SYSTEM IN 2020**  
7 **AND 2021 BEYOND ITS 2020 SOBRA PROJECTS AND PROJECTS**  
8 **ALREADY APPROVED BY THE COMMISSION?**

9 A. No, it has not. FPL has failed to present evidence in its Petition or direct  
10 testimony that demonstrates it has a need for additional generation capacity in 2020  
11 and 2021 beyond its 2020 SoBRA projects and its resource projects that have already  
12 been approved by the Commission. Therefore, FPL has failed to demonstrate it has an  
13 additional capacity need of any sort for 2020 and 2021, in addition to failing to  
14 demonstrate that the most cost effective way to reliably meet such a need would be  
15 through pursuit of the Phase 1 SolarTogether projects.

**III. FPL'S CHOICE TO CONSTRUCT  
ALL OF THE PHASE 1 SOLARTOGETHER PROJECTS**

1  
2  
3 **Q. HOW IS FPL PROPOSING TO PROVIDE FOR THE ADDITION OF 1,490**  
4 **MW<sub>AC</sub> OF NEW SOLAR GENERATION FOR ITS PROPOSED PHASE 1**  
5 **SOLARTOGETHER PROJECT?**

6 A. FPL is proposing to construct all 20 of the 74.5 MW<sub>AC</sub> sites itself<sup>4</sup> through the  
7 use of contractors.

8  
9 **Q. DID FPL CONDUCT A REQUEST FOR PROPOSALS (“RFP”) PROCESS FOR**  
10 **SOLAR PURCHASED POWER AGREEMENTS (“PPAs”) OR OTHER**  
11 **THIRD-PARTY ARRANGEMENTS BEFORE DECIDING ON**  
12 **CONSTRUCTING ALL OF THE PHASE 1 SOLARTOGETHER PROJECTS**  
13 **ITSELF?**

14 A. No, it did not. In response to Citizens’ Interrogatory No. 10, FPL indicated it  
15 did not solicit proposals from third-parties. The Company provided the following two  
16 purported reasons for not evaluating third-party PPA options:

- 17 • Such options would not align with the program design for the SolarTogether  
18 Program, including the structure of recovery of cost for the program (i.e., fixed  
19 payment stream to a third-party PPA seller vs. FPL’s collection of revenues through  
20 charges and credits to subscribed customers);

---

<sup>4</sup>I say that FPL will construct all 20 sites “itself;” however, it should be noted FPL witness Brannen is an employee of NextEra Energy Resources, LLC and manages the development and implementation of engineering technology selection and execution strategies for universal solar and distributed generation projects for NextEra Energy, Inc., the parent of FPL (Brannen Direct at 1). Given Mr. Brannen’s status as a NextEra Energy Resources, LLC employee, it is possible that the development and construction of the SolarTogether sites is actually being performed by an affiliate or affiliates of FPL rather than FPL itself. I have not made any assumptions about whether any possible affiliated asset transfers appropriately affect the costs and other assumptions related to the payback and cost-effectiveness issues that I address in my testimony.

- 1           • SolarTogether represents a significant commitment to FPL’s customers, and  
2           reliance on a third-party with no track record in Florida would represent an  
3           unreasonable level of risk, particularly as it relates to scale, cost, timing and  
4           performance.

5  
6           (FPL’s response to Citizens’ Interrogatory No. 10)  
7

8           **Q. DO YOU AGREE WITH FPL’S REASONING?**

9           A.           No, I do not. With respect to the first point, were FPL to have an actual need  
10           for the solar generation resources, a fixed payment stream to a third-party PPA seller  
11           could be coupled with FPL’s collections of revenues through charges and credits to  
12           subscribed customers. It would simply require that either FPL, the Non-Participating  
13           Customers, or some combination of the two, pay or collect the difference between the  
14           revenue stream paid to the PPA seller and the collection of revenues through charges  
15           and credits to Participating Customers. Therefore, FPL’s first point is not valid  
16           especially considering FPL’s own proposal for its proposed SolarTogether Program  
17           involves FPL’s Non-Participating Customers taking on the risk to pick up the slack  
18           between FPL and the Participating Customers.

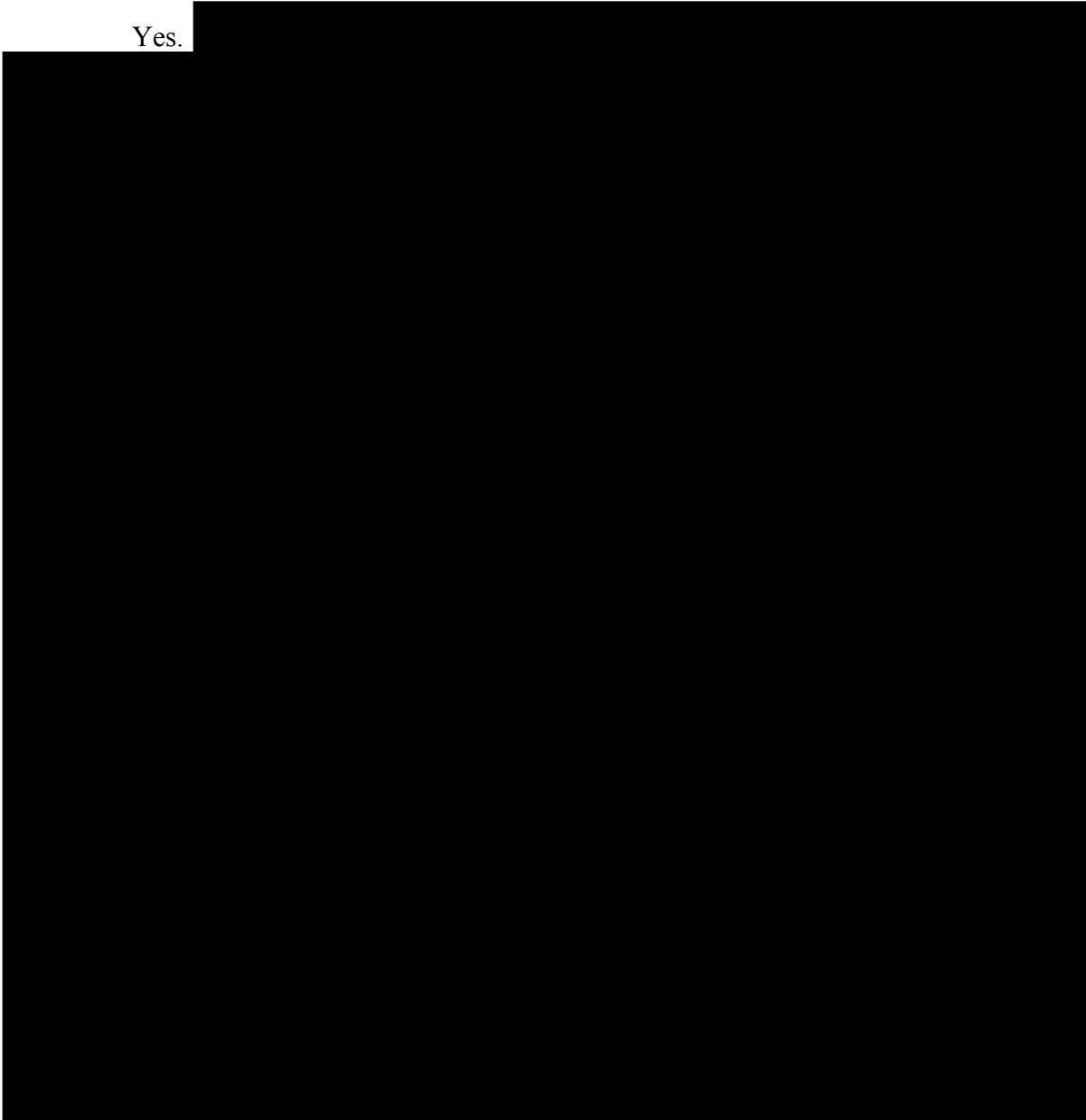
19           FPL’s second point is also invalid. Essentially, FPL presents an all or nothing  
20           proposition for the use of PPAs or other third-party arrangements such as build and  
21           acquisition arrangements. Were FPL to have an actual need for the solar generation  
22           resources, it would not be unduly risky for it to pursue at least some of the Phase 1  
23           SolarTogether projects through PPAs or other third-party arrangements, such as build  
24           and acquisition arrangements, if, after performing a reasonable RFP, it was determined  
25           that the most cost effective way to provide for the Phase 1 SolarTogether projects  
26           would be through the use of some level of third-party arrangements. In addition, FPL’s

1 opposition to relying in any way on a third-party under the argument that the  
2 third-parties lack a track record in Florida is highly problematic. There are likely many  
3 third-party solar developers with good reputations inside and outside of Florida, and it  
4 is unreasonable to expect any of them to have a track record in Florida if no utility in  
5 Florida is willing to give them a chance to establish such a track record.

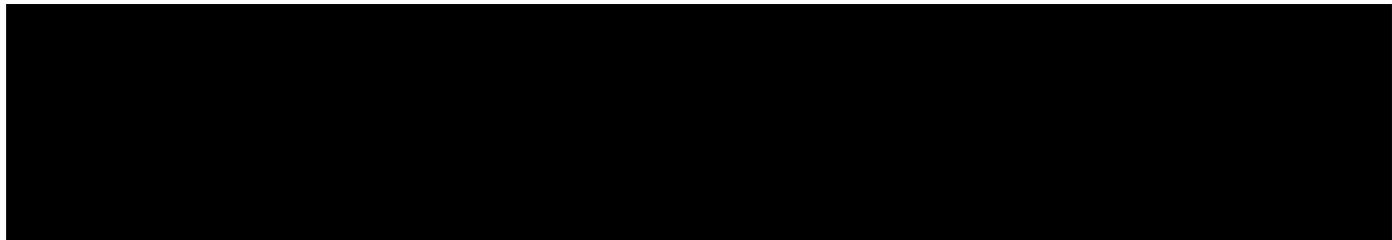
6           Simply put, FPL's reasons for not conducting an RFP for PPAs and other third-  
7 party arrangements for at least a portion of the Phase 1 SolarTogether projects are not  
8 prudent or reasonable. Such an RFP might have revealed that there were opportunities  
9 with third-parties to provide for at least a portion of the proposed Phase 1 SolarTogether  
10 generation facilities on a more cost effective basis than having FPL construct all of the  
11 projects itself. As a result, an important check on the cost of the Phase 1 SolarTogether  
12 projects for both Participating Customers and Non-Participating customers was lost.  
13 Therefore, we do not know whether FPL (or a non-regulated affiliate of FPL)  
14 constructing all of the Phase 1 SolarTogether projects is the most cost effective  
15 approach for reliably pursuing the Phase 1 SolarTogether solar generation facilities,  
16 and this is assuming that FPL even needs additional resources such that pursuit of the  
17 Phase 1 SolarTogether solar generation facilities is the most effective way to meet that  
18 resource need.

1 **Q. IS THERE ANY EVIDENCE OF A THIRD-PARTY SOLAR DEVELOPER**  
2 **WITH A GOOD TRACK RECORD OUTSIDE OF FLORIDA BEING**  
3 **INTERESTED IN DEVELOPING UTILITY-SCALE SOLAR GENERATION**  
4 **PROJECTS WITHIN THE FPL SERVICE TERRITORY?**

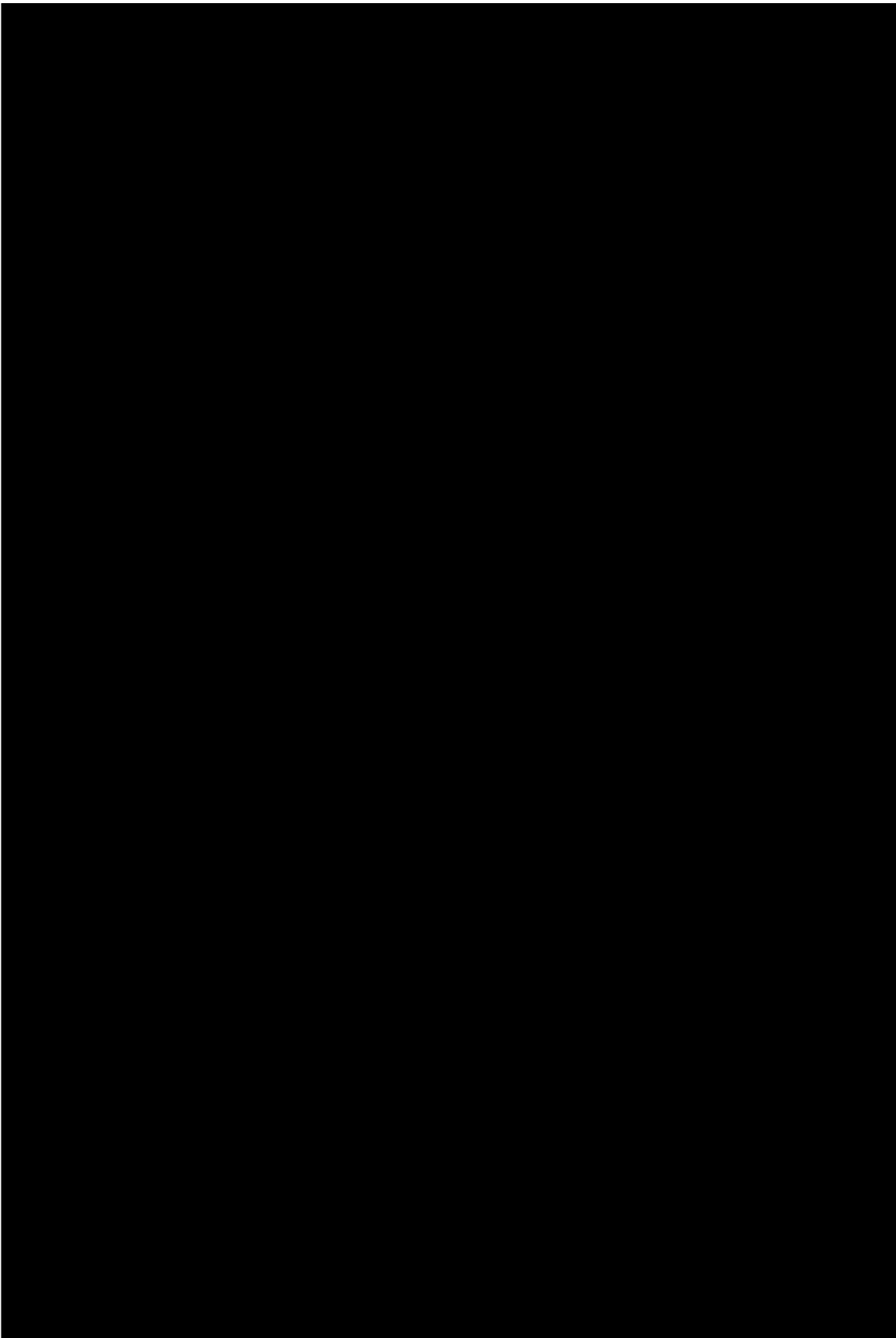
5 A. Yes.



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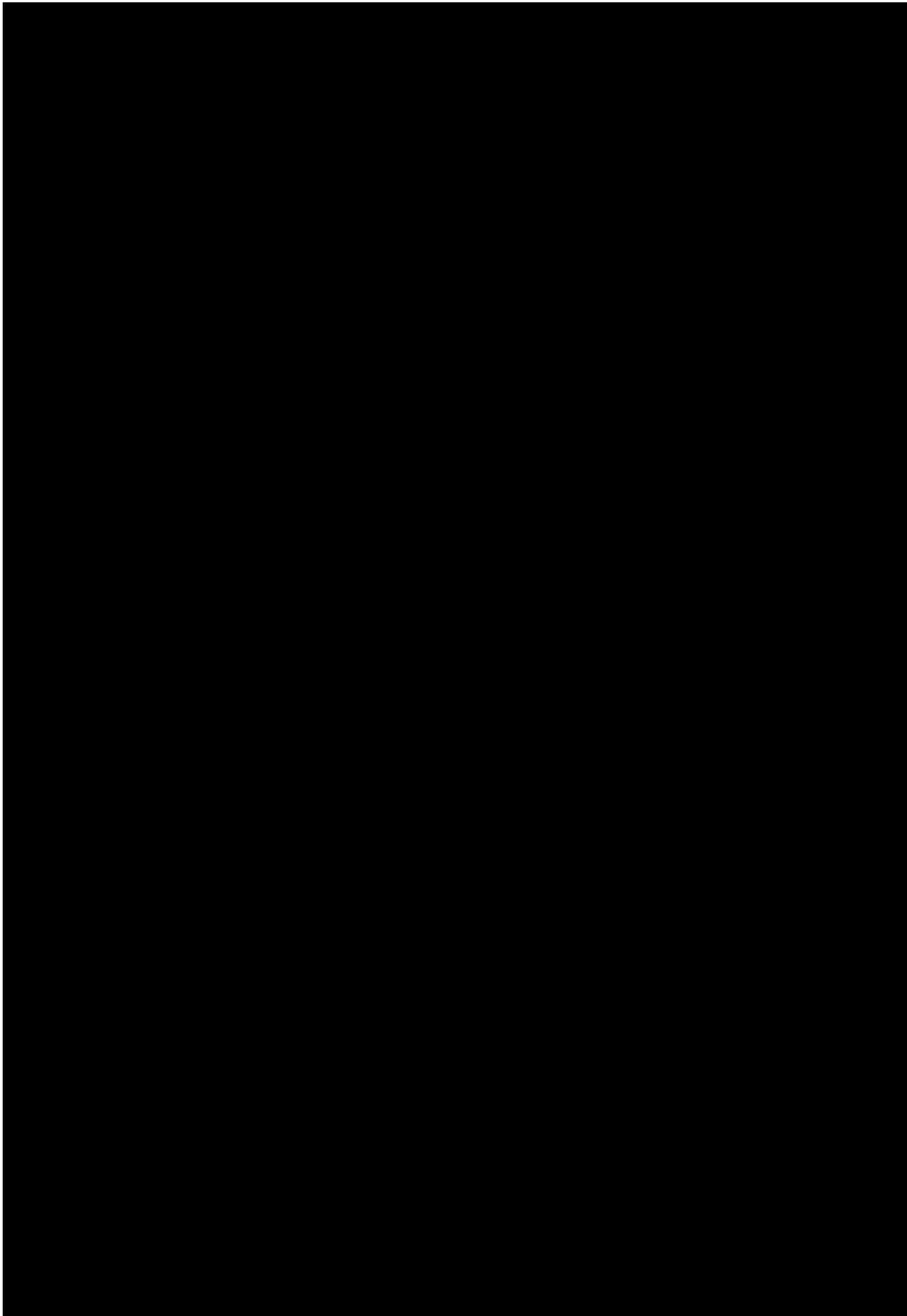
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**Q.**

**A.**



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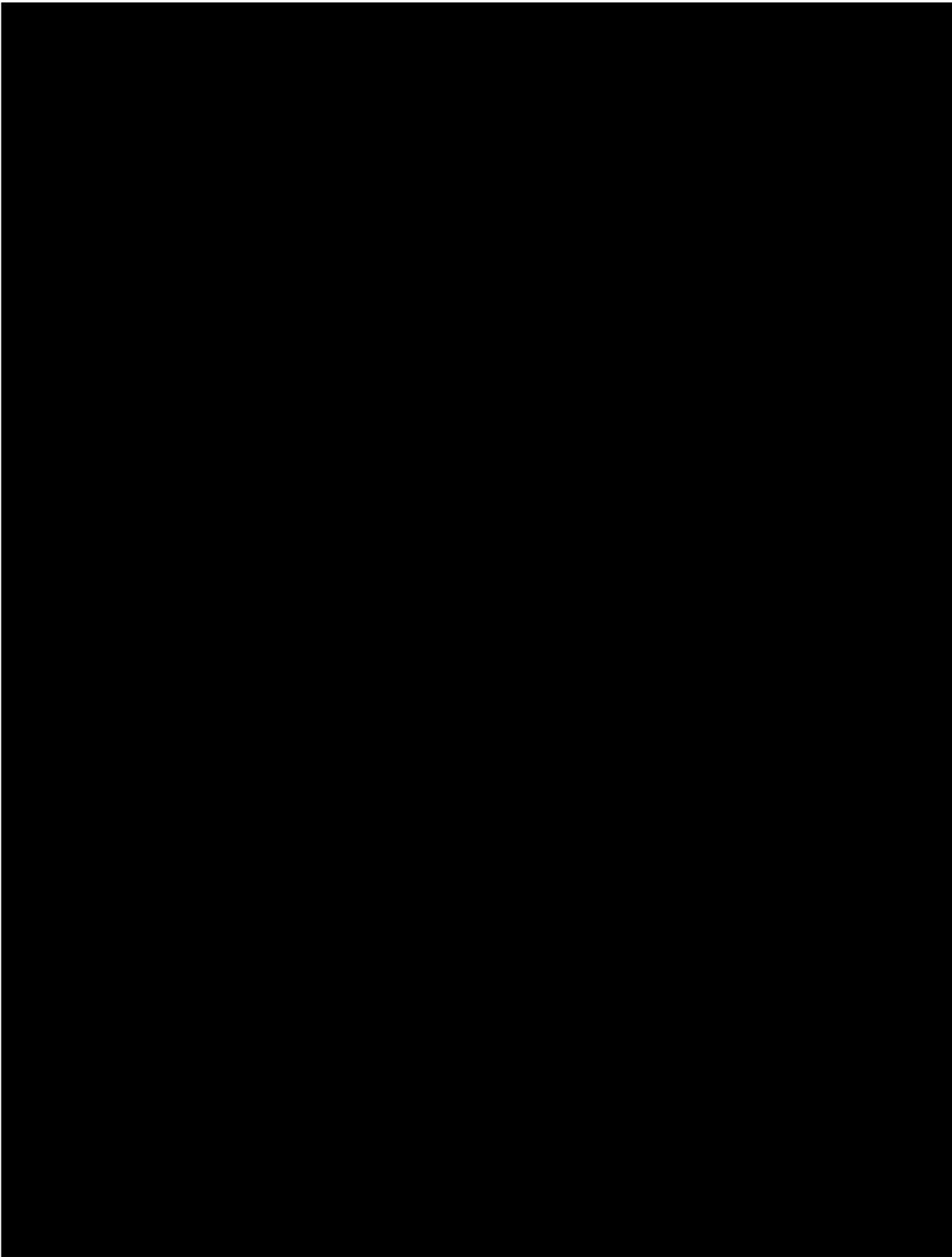
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1 **IV. REASONABLENESS OF FPL'S SOLARTOGETHER PROGRAM**

2 **Q. PLEASE BRIEFLY SUMMARIZE FPL'S PROPOSED SOLARTOGETHER**  
3 **PROGRAM.**

4 A Under FPL's SolarTogether Program, customers who volunteer to participate  
5 would be permitted to subscribe to a portion of FPL's proposed utility-scale  
6 SolarTogether solar photovoltaic generation projects for up to 100% of each customer's  
7 annual energy usage, pursuant to the terms and conditions of the program and  
8 contingent upon the solar capacity being available to the customer. As I have  
9 discussed, for Phase 1 of its SolarTogether Program, FPL proposes to construct  
10 1,490 MW<sub>AC</sub> of new solar generation facilities split between 20 sites of 74.5 MW<sub>AC</sub>  
11 each that would enter service between February 2020 and April 2021 (Valle Direct at  
12 9 and 19). FPL proposes to initially offer 25% of the Phase 1 capacity (372.5 MW<sub>AC</sub>)  
13 to its residential and small business customers and the remaining 75% of this capacity  
14 (1,117.5 MW<sub>AC</sub>) to its Commercial, Industrial and Governmental ("C&I-G") customers  
15 (Valle Direct at 16). FPL proposes to periodically reevaluate demand for the  
16 SolarTogether Program and, if warranted, reassign the allocation of capacity as  
17 appropriate (*Id.*). As I have also noted earlier in my testimony, the impact of FPL's  
18 proposed SolarTogether Program on FPL's Non-Participating Customers is not  
19 voluntary for those Non-Participating Customers.

20 FPL has already offered pre-registration for the SolarTogether Program to its  
21 C&I-G customers and purportedly received reservations from 200 such customers for  
22 a total capacity amount of approximately 1,100 MW<sub>AC</sub>—nearly the entire initial 1,117.5  
23 MW<sub>AC</sub> allocation of Phase 1 capacity to C&I-G customers (Valle Direct at 23). FPL

1 reports that many of these C&I-G customers have reserved a subscription that will  
2 cover 75% to 100% of their annual energy usage (*Id.*). Under FPL's SolarTogether  
3 Pre-Registration Agreement, these pre-registration reservations are essentially binding  
4 unless the SolarTogether Program is either not approved or the Commission makes  
5 material modifications to the program. (FPL's response to Staff's Interrogatory No.  
6 55).

7

8 **Q. PLEASE HIGHLIGHT SOME OF THE KEY TERMS AND CONDITIONS TO**  
9 **WHICH PARTICIPATING CUSTOMERS WOULD BE SUBJECT UNDER**  
10 **FPL'S SOLARTOGETHER PROGRAM.**

11 A. Participating Customers may participate in the program for up to 30 years and  
12 can terminate their participation at any point past their initial month of participation.  
13 Participating Customers pay a fixed, flat monthly subscription rate of \$6.76 per  
14 kW-month applied to their kW of subscribed SolarTogether capacity (FPL Exhibit  
15 MV-1). In exchange, they receive a stated subscription credit for the actual energy  
16 produced by their subscribed SolarTogether capacity that starts at 3.42881¢ per kWh  
17 in year 1 and escalates annually to reach 5.20540¢ per kWh in year 30 (*Id.*).

18

19 **Q. PLEASE EXPLAIN HOW FPL DEVELOPED THE RESERVATION CHARGE**  
20 **AND SUBSCRIPTION CREDIT FOR PARTICIPATING CUSTOMERS**  
21 **UNDER ITS PROPOSED SOLARTOGETHER PROGRAM.**

22 A. The subscription charge was developed by FPL by first allocating 96.4% of the  
23 forecasted \$1.370 billion CPVRR net base rate revenue requirement for Phase 1 of the

1 SolarTogether Program to Participating Customers and then developing a levelized  
2 monthly subscription rate intended to recover that amount (\$1.321 billion) from  
3 Participating Customers over 30 years. The subscription charge for each customer was  
4 then calculated as the monthly subscription rate (\$6.76 per kW-month) multiplied by  
5 the subscribed kW of capacity of the participating customer (Bores Direct at 6).

6 The subscription credit was developed by assigning 80% (\$111 million) of the  
7 forecasted base case \$139 million CPVRR net savings for Phase 1 of the SolarTogether  
8 projects to Participating Customers and targeting a seven-year simple payback to those  
9 Participating Customers based on the estimated output of the Phase 1 solar generation  
10 facilities, assuming typical Florida weather. FPL reports this allocates 95% or  
11 \$1.432 billion of the \$1.509 billion total fuel and emission fuel clause savings that FPL  
12 is forecasting to receive from the Phase 1 SolarTogether projects over their 30-year  
13 book life under its base case assumptions (Bores Direct at 8 and Valle Direct at 11).

14

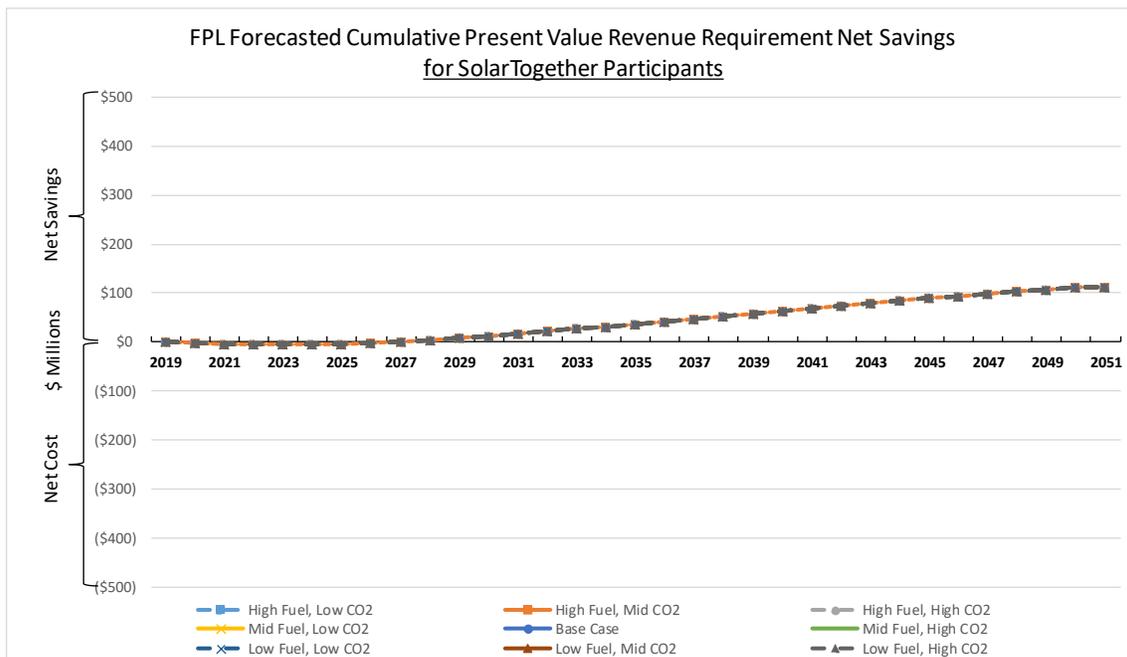
15 **Q. ARE PARTICIPATING CUSTOMERS STILL SUBJECT TO NORMAL**  
16 **TARIFF RATES FOR THE DEMAND AND ENERGY CONSUMPTION OF**  
17 **THEIR LOAD?**

18 A Yes, they are. Participating Customers continue to be subject to normal tariff  
19 rates for their load. The customers' normal tariff rates include any applicable tariff  
20 riders, which also include FPL's fuel clause.

1 **Q. EARLIER IN YOUR TESTIMONY, YOU PLOTTED FPL’S FORECASTED**  
 2 **YEAR-BY-YEAR CPVRR NET SAVINGS FROM THE PROPOSED PHASE 1**  
 3 **SOLARTOGETHER PROJECTS FOR FPL’S CUSTOMERS AS A WHOLE**  
 4 **(I.E., FPL’S PARTICIPATING CUSTOMERS AND NON-PARTICIPATING**  
 5 **CUSTOMERS COMBINED). ARE YOU ABLE TO DO THE SAME FOR**  
 6 **PARTICIPATING CUSTOMERS BY THEMSELVES?**

7 A. Yes. In response to Staff’s Interrogatory No. 79, FPL provided sufficient  
 8 information to perform the necessary calculations. I have performed the necessary  
 9 calculations and have plotted FPL’s forecasted year-by-year CPVRR net savings from  
 10 the Phase 1 SolarTogether projects for just the Participating Customers for FPL’s base  
 11 case and eight sensitivity cases in Figure JRD-3 below. I also present this information  
 12 in tabular form in Exhibit JRD-3.

**Figure JRD-3**



Source: FPL Response to Staff Interrogatory No. 79.

1 As can be seen from Figure JRD-3, the Participating Customers as a group  
2 receive a cumulative present value payback by 2027, six years after the last of the Phase  
3 1 SolarTogether projects enter service, and then these customers see a consistently  
4 increasing CPVRR net savings that ultimately reaches \$111 million at the 2051  
5 end-state. In addition, since FPL has designed its stated subscription credit for the  
6 SolarTogether Program based on its forecasted base case fuel clause savings and not  
7 on the actual fuel clause savings to be realized, as shown in Figure JRD-3, the time to  
8 a cumulative present value payback and the CPVRR net savings for Participating  
9 Customers is completely immune to variations in natural gas prices and CO<sub>2</sub> emission  
10 prices. Furthermore, while it is not considered in FPL's sensitivity cases, it is also  
11 important to note that the time to recognize a cumulative present value payback and the  
12 end state CPVRR net savings for Participating Customers is also immune to FPL's  
13 actual costs for the Phase 1 SolarTogether projects because FPL has designed the  
14 SolarTogether monthly subscription rate for Participating Customers based on its  
15 forecasted cost for those projects and there is no true-up to actual costs for Participating  
16 Customers in FPL's SolarTogether proposal.

17  
18 **Q. DO PARTICIPATING CUSTOMERS FACE ANY RISKS UNDER FPL'S**  
19 **PROPOSED SOLARTOGETHER PROGRAM?**

20 A. There are two, but both are minor. The first is if actual weather conditions over  
21 time produce much less solar energy production than the historic period that FPL used  
22 to develop its forecast of solar energy production from the Phase 1 SolarTogether

1 projects. However, there is no evidence that over an extended period of time that this  
2 will be a risk of any significance.

3 The second risk is that several years into the SolarTogether Program the  
4 Commission could potentially make material changes to the monthly subscription rate  
5 and/or subscription credit that ruins the economics of the SolarTogether Program for  
6 Participating Customers. However, this is a risk of no significance given that (i) FPL  
7 designed the SolarTogether Program to provide a payback to Participating Customers  
8 within seven years regardless of the actual cost of the Phase 1 SolarTogether projects  
9 and the actual fuel clause savings provided by the Phase 1 SolarTogether projects, and  
10 (ii) Participating Customers can terminate participation at any time after their initial  
11 month of participation. The bottom line is that, given the seven-year or less payback  
12 and the nearly complete lack of risk, participation in FPL's proposed SolarTogether  
13 Program is a good way for Participating Customers to lower their electric bills  
14 regardless of any interest those customers may have in receiving solar power. Based  
15 on this lack of risk and seven-year or less payback, it is not surprising FPL was able to  
16 secure reservations for approximately 1,100 MW of the Phase 1 SolarTogether projects  
17 from C&I-G customers during its pre-registration process.

1 **Q. YOU HAVE ILLUSTRATED HOW ATTRACTIVE PARTICIPATION IN**  
2 **FPL'S PROPOSED SOLARTOGETHER PROGRAM IS TO FPL'S**  
3 **CUSTOMERS REGARDLESS OF THEIR INTEREST IN RECEIVING SOLAR**  
4 **POWER. HOW DOES FPL'S PROPOSED SOLARTOGETHER PROGRAM**  
5 **AFFECT FPL'S NON-PARTICIPATING CUSTOMERS?**

6 A. In stark contrast to the Participating Customers, FPL's Non-Participating  
7 Customers are worse off under FPL's proposed SolarTogether proposal than FPL's  
8 customers as a whole (i.e., Participating Customers and Non-Participating Customers  
9 combined). In addition, Non-Participating Customers continue to bear all of the risks  
10 associated with costs and benefits related to FPL's Phase 1 SolarTogether projects  
11 except for the level of solar energy production by the facilities.

12

13 **Q. PLEASE EXPLAIN.**

14 A. Under FPL's proposed SolarTogether Program, FPL proposes the following  
15 rate treatment for Non-Participating Customers:

16

- 17 • The actual costs of the Phase 1 SolarTogether projects be included in FPL's rate  
18 base in FPL's next base rate proceeding;
- 19 • The actual reservation charges collected by FPL from Participating Customers be  
20 applied as a revenue credit against FPL's base rate revenue requirement in its next  
21 base rate proceeding; and
- 22 • The actual subscription credits paid out to Participating Customers be recovered by  
23 FPL from its Non-Participating Customers through FPL's fuel clause.

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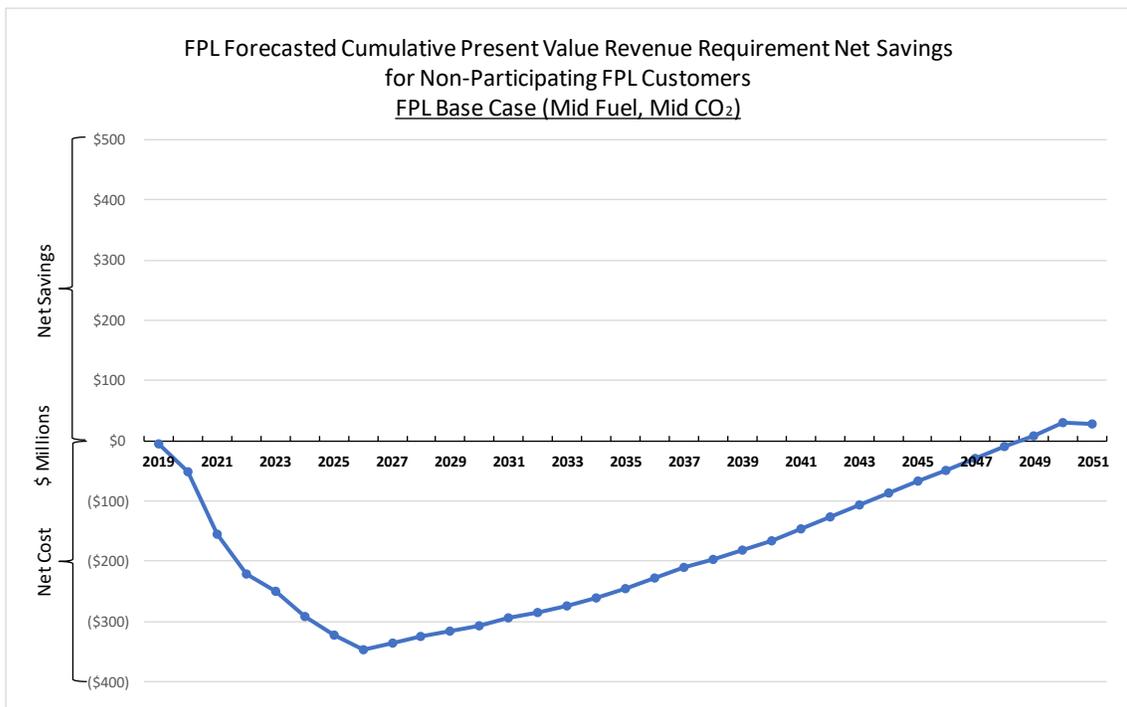
It should be noted that FPL's actual fuel and emission cost savings from the  
Phase 1 SolarTogether projects would flow back to FPL's Non-Participating Customers

1 through FPL’s fuel clause; however, it would of course be offset by the subscription  
 2 credits paid to Participating Customers under FPL’s proposal.

3 **Q. CAN YOU PLOT FPL’S FORECASTED YEAR-BY-YEAR CPVRR NET**  
 4 **SAVINGS FROM ITS PHASE 1 SOLARTOGETHER PROJECTS FOR FPL’S**  
 5 **NON-PARTICIPATING CUSTOMERS UNDER ITS PROPOSAL?**

6 A. Yes. The information for the necessary calculations was provided in FPL’s  
 7 response to Staff’s Interrogatory No. 79. I have performed the necessary calculations  
 8 and have plotted FPL’s year-by-year forecasted CPVRR net savings for  
 9 Non-Participating Customers under FPL’s base case assumptions in Figure JRD-4. I  
 10 also present this information in tabular form in Exhibit JRD-4.

**Figure JRD-4**



Source: FPL Response to Staff Interrogatory No. 79.

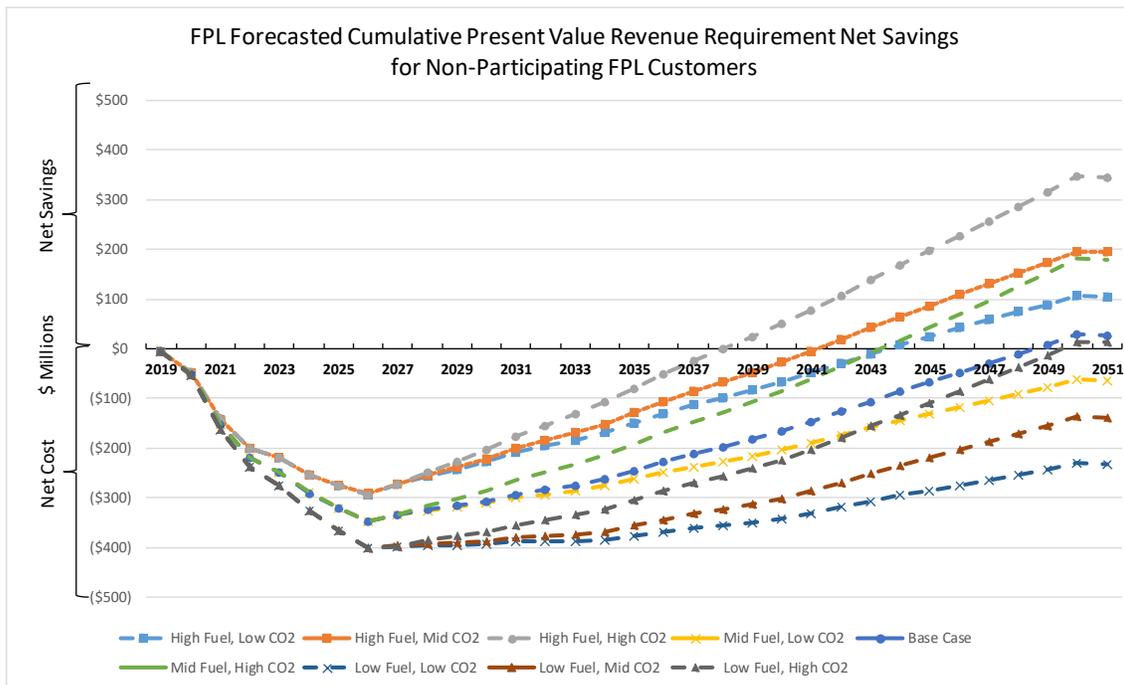
1           As can be seen from comparing Figure JRD-4 to my earlier Figure JRD-1,  
2 FPL's Non-Participating Customers are worse off under FPL's proposal than FPL's  
3 customers as a whole. Specifically, FPL's Non-Participating Customers – those  
4 customers who either do not have the opportunity to participate or choose not to  
5 participate – do not see a cumulative present value payback under FPL's base case  
6 assumptions until 2049 – 4 years later than FPL's customers as a whole and 22 years  
7 later than the Participating Customers. The situation becomes even more problematic  
8 when FPL's sensitivity cases are examined.

9

10 **Q. CAN YOU PLOT FPL'S FORECASTED YEAR-BY-YEAR CPVRR NET**  
11 **SAVINGS FOR FPL'S NON-PARTICIPATING CUSTOMERS FOR FPL'S**  
12 **EIGHT SENSITIVITY CASES IN ADDITION TO FPL'S BASE CASE?**

13 A.           Yes. I have done so in figure JRD-5 below using the information provided in  
14 FPL's response to Staff's Interrogatory No. 79. I also present this information in  
15 tabular form in Exhibit JRD-5.

Figure JRD-5



1            Focusing on FPL’s base case and its three sensitivity cases that do not utilize  
2            either its high natural gas or high CO<sub>2</sub> emission price assumptions for the reasons I  
3            discussed earlier in my testimony, the end-state CPVRR net savings for  
4            Non-Participating Customers range from a CPVRR net loss of \$232 million under  
5            FPL’s low fuel and low CO<sub>2</sub> emission cost case to a CPVRR net savings of \$28 million  
6            under FPL’s base case. This is dramatically worse than the situation for Participating  
7            Customers, whose CPVRR net savings are immune to natural gas and CO<sub>2</sub> emission  
8            price swings (see Figure JRD-3). It is also significantly worse than for FPL’s customers  
9            as a whole, whose CPVRR net savings range from a CPVRR net loss of \$121 million  
10           to a CPVRR net savings of \$139 million for the four FPL cases I have focused upon  
11           (see Figure JRD-2). It must be emphasized again that the cost-effectiveness test

1 proposed by FPL is not appropriate for use in approving the SolarTogether Program or  
2 the addition of the associated generation assets.

3

4 **Q. WHAT DO YOU CONCLUDE FROM YOUR ANALYSIS ABOVE OF FPL'S**  
5 **PROPOSED SOLARTOGETHER PROGRAM?**

6 A. As noted earlier in my testimony, a reasonable voluntary solar program is one  
7 in which Participating Customers take on sufficient cost and risk for a solar project,  
8 such that it substantially reduces the cost and risk faced by the Non-Participating  
9 Customers versus what those Non-Participating Customers would be exposed to absent  
10 the voluntary solar program. This is the complete opposite of what will occur under  
11 FPL's proposed SolarTogether Program if it is subsequently approved. Instead of the  
12 SolarTogether Program lowering the net cost and risk associated with pursuing the  
13 Phase 1 SolarTogether Projects for Non-Participating Customers, the SolarTogether  
14 program would instead increase those net costs and risks, as is evidenced by comparing  
15 year-by-year CPVRR net savings in Figure JRD-5 for the Non-Participating customers  
16 to year-by-year CPVRR net savings in Figure JRD-2 for the FPL's customers as a  
17 whole (i.e., the Participating Customers and the Non-Participating Customers  
18 combined).

19 In addition, Participating Customers under FPL's Solar Together Program are  
20 not paying a premium in order to access solar power. Instead, they are receiving a  
21 nearly guaranteed CPVRR rate reduction within seven years of beginning participation  
22 and a nearly guaranteed amount of additional CPVRR rate savings for the remaining  
23 23 years of the participation thereafter. As such, participation in the program is highly

1 attractive as a way to lower a customer's electric bill regardless of the customer's  
2 interest in fostering solar power development. However, this comes at the expense of  
3 FPL's Non-Participating Customers, as noted above. This is completely counter to a  
4 reasonable voluntary solar program where Participating Customers would pay a  
5 premium (in terms of the costs and risks assigned to them) over what the  
6 Non-Participating Customers would pay in order to help foster the development of solar  
7 power. Instead, under FPL's proposal, the Non-Participating Customers would  
8 subsidize Participating Customers by continuing to be saddled with nearly all of the  
9 risks associated with the Phase 1 SolarTogether projects and having a lower likelihood  
10 of realizing a cumulative present value payback from the projects than if the projects  
11 were simply pursued on behalf of FPL's customers as a whole.

12 Finally, FPL's side of the equation under its proposal also needs to be  
13 considered. Under the proposal, FPL will accelerate its construction of solar generation  
14 facilities in 2020 and 2021 by at least 590 MW<sub>AC</sub><sup>6</sup>, which will allow it to accelerate the  
15 growth of its rate base, and, in turn, accelerate the growth in the total return earned by  
16 its shareholders. Furthermore, it is important to remember that, similar to the  
17 subscription credits paid to Participating Customers under the SolarTogether Program,  
18 the return earned by FPL's shareholders is essentially immune to fuel and CO<sub>2</sub> emission  
19 price swings given that FPL's fuel clause protects FPL, but not its customers, from such  
20 price swings.

21 In summary, for the reasons I have discussed, FPL's proposed SolarTogether  
22 Program does not provide a reasonable allocation of benefits, costs and risks between

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<sup>6</sup>590 MW<sub>AC</sub> = 1,490 MW<sub>AC</sub> (Phase 1 SolarTogether projects) – 900 MW<sub>AC</sub> (FPL 2019 Ten-Year Site Plan projects with no SolarTogether Program).

1 FPL, the Participating Customers and the Non-Participating Customers. As such, the  
2 program is unreasonable and should not be approved by the Commission.

3

4 **V. CONCLUSIONS AND RECOMMENDATIONS**

5 **Q. PLEASE SUMMARIZE YOUR CONCLUSIONS AND RECOMMENDATIONS.**

6 A. I conclude the following:

- 7
- 8 • FPL has not shown it needs additional resources in 2020 and 2021 and that its 1,490  
9 MW<sub>AC</sub> of proposed solar generation facilities under Phase 1 of its SolarTogether  
10 Program would be the most cost effective solution to reliably meet such an  
11 additional resource need for FPL's customers as a whole absent the implementation  
12 of a reasonable voluntary solar program to support the facilities;
  - 13 • FPL has not shown its proposed construction of all of the Phase 1 SolarTogether  
14 projects is the most cost effective manner to reliably add 1,490 MW<sub>AC</sub> of new solar  
15 generation for either FPL's Participating Customers or the Non-Participating  
16 Customers, assuming this solar generation was needed; and
  - 17
  - 18 • FPL's proposed SolarTogether Program does not provide a reasonable allocation  
19 of the benefits, costs and risks of the proposed SolarTogether Phase 1 projects  
20 between FPL, the Participating Customers and the Non-Participating customers.  
21

22 For the above reasons, I recommend that the Commission deny FPL's petition  
23 for its proposed SolarTogether Program at this time including any approval related to  
24 increasing rate base sought by FPL for the proposed Phase 1 SolarTogether solar  
25 generation projects.

26

27 **Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

28 A. Yes, it does.

**Qualifications of James R. Dauphinais**

1   **Q    PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2   A    James R. Dauphinais. My business address is 16690 Swingley Ridge Road, Suite 140,  
3        Chesterfield, MO 63017, USA.

4   **Q    PLEASE STATE YOUR OCCUPATION.**

5   A    I am a consultant in the field of public utility regulation and a Managing Principal with  
6        the firm of Brubaker & Associates, Inc. (“BAI”), energy, economic and regulatory  
7        consultants.

8   **Q    PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND**  
9        **EXPERIENCE.**

10  A    I graduated from Hartford State Technical College in 1983 with an Associate's Degree  
11        in Electrical Engineering Technology. Subsequent to graduation, I was employed by  
12        the Transmission Planning Department of the Northeast Utilities Service Company<sup>1</sup> as  
13        an Engineering Technician.

14            While employed as an Engineering Technician, I completed undergraduate  
15        studies at the University of Hartford. I graduated in 1990 with a Bachelor's Degree in  
16        Electrical Engineering. Subsequent to graduation, I was promoted to the position of  
17        Associate Engineer. Between 1993 and 1994, I completed graduate level courses in the  
18        study of power system analysis, power system transients and power system protection

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<sup>1</sup>In 2015, Northeast Utilities changed its name to Eversource Energy.

1 through the Engineering Outreach Program of the University of Idaho. By 1996 I had  
2 been promoted to the position of Senior Engineer.

3 In the employment of the Northeast Utilities Service Company, I was  
4 responsible for conducting thermal, voltage and stability analyses of the Northeast  
5 Utilities' transmission system to support planning and operating decisions. This  
6 involved the use of load flow, power system stability and production cost computer  
7 simulations. It also involved examination of potential solutions to operational and  
8 planning problems including, but not limited to, transmission line solutions and the  
9 routes that might be utilized by such transmission line solutions. Among the most  
10 notable achievements I had in this area include the solution of a transient stability  
11 problem near Millstone Nuclear Power Station, and the solution of a small signal (or  
12 dynamic) stability problem near Seabrook Nuclear Power Station. In 1993 I was  
13 awarded the Chairman's Award, Northeast Utilities' highest employee award, for my  
14 work involving stability analysis in the vicinity of Millstone Nuclear Power Station.

15 From 1990 to 1996, I represented Northeast Utilities on the New England Power  
16 Pool Stability Task Force. I also represented Northeast Utilities on several other  
17 technical working groups within the New England Power Pool ("NEPOOL") and the  
18 Northeast Power Coordinating Council ("NPCC"), including the 1992-1996 New York-  
19 New England Transmission Working Group, the Southeastern Massachusetts/Rhode  
20 Island Transmission Working Group, the NPCC CPSS-2 Working Group on Extreme  
21 Disturbances and the NPCC SS-38 Working Group on Interarea Dynamic Analysis.

1 This latter working group also included participation from a number of ECAR, PJM and  
2 VACAR utilities.

3 From 1990 to 1995, I also acted as an internal consultant to the Nuclear  
4 Electrical Engineering Department of Northeast Utilities. This included interactions  
5 with the electrical engineering personnel of the Connecticut Yankee, Millstone and  
6 Seabrook nuclear generation stations and inspectors from the Nuclear Regulatory  
7 Commission (“NRC”).

8 In addition to my technical responsibilities, from 1995 to 1997, I was also  
9 responsible for oversight of the day-to-day administration of Northeast Utilities' Open  
10 Access Transmission Tariff. This included the creation of Northeast Utilities' pre-FERC  
11 Order No. 889 transmission electronic bulletin board and the coordination of Northeast  
12 Utilities' transmission tariff filings prior to and after the issuance of Federal Energy  
13 Regulatory Commission (“FERC” or “Commission”) FERC Order No. 888. I was also  
14 responsible for spearheading the implementation of Northeast Utilities' Open Access  
15 Same-Time Information System and Northeast Utilities’ Standard of Conduct under  
16 FERC Order No. 889. During this time, I represented Northeast Utilities on the Federal  
17 Energy Regulatory Commission's "What" Working Group on Real-Time Information  
18 Networks. Later I served as Vice Chairman of the NEPOOL OASIS Working Group  
19 and Co-Chair of the Joint Transmission Services Information Network Functional  
20 Process Committee. I also served for a brief time on the Electric Power Research  
21 Institute facilitated "How" Working Group on OASIS and the North American Electric  
22 Reliability Council facilitated Commercial Practices Working Group.

1           In 1997, I joined the firm of Brubaker & Associates, Inc. The firm includes  
2 consultants with backgrounds in accounting, engineering, economics, mathematics,  
3 computer science and business. Since my employment with the firm, I have filed or  
4 presented testimony before the Federal Energy Regulatory Commission in Consumers  
5 Energy Company, Docket No. OA96-77-000; Midwest Independent Transmission  
6 System Operator, Inc., Docket No. ER98-1438-000; Montana Power Company, Docket  
7 No. ER98-2382-000; Inquiry Concerning the Commission's Policy on Independent  
8 System Operators, Docket No. PL98-5-003; SkyGen Energy LLC v. Southern Company  
9 Services, Inc., Docket No. EL00-77-000; Alliance Companies, et al., Docket No. EL02-  
10 65-000, et al.; Entergy Services, Inc., Docket No. ER01-2201-000; Remedying Undue  
11 Discrimination through Open Access Transmission Service, Standard Electricity  
12 Market Design, Docket No. RM01-12-000; Midwest Independent Transmission System  
13 Operator, Inc., Docket No. ER10-1791-000; NorthWestern Corporation, Docket No.  
14 ER10-1138-001, et al.; Illinois Industrial Energy Consumers v. Midcontinent  
15 Independent System Operator, Inc., Docket No. EL15-82-000; Midcontinent  
16 Independent System Operator, Inc., Docket No. ER16-833-000; Midcontinent  
17 Independent System Operator, Inc., Docket No. ER17-284-000; and Midcontinent  
18 Independent System Operator, Inc. and Ameren Services Company Docket No. ER18-  
19 463-000. I have also filed or presented testimony before the Alberta Utilities  
20 Commission, Colorado Public Utilities Commission, Connecticut Department of Public  
21 Utility Control, the Florida Public Service Commission, the Idaho Public Service  
22 Commission; Illinois Commerce Commission, the Indiana Utility Regulatory

1 Commission, the Iowa Utilities Board, the Kentucky Public Service Commission, the  
2 Louisiana Public Service Commission, the Michigan Public Service Commission, the  
3 Missouri Public Service Commission, the Montana Public Service Commission, the  
4 New Mexico Public Regulation Commission, the Council of the City of New Orleans,  
5 the Oklahoma Corporation Commission, the Public Utility Commission of Texas, the  
6 Wisconsin Public Service Commission, the Wyoming Public Service Commission and  
7 various committees of the Illinois, Missouri and South Carolina State Legislatures. This  
8 testimony has been given regarding a wide variety of issues including, but not limited  
9 to, ancillary service rates, avoided cost calculations, certification of public convenience  
10 and necessity, class cost of service, cost allocation, fuel adjustment clauses, fuel costs,  
11 generation interconnection, interruptible rates, market power, market structure,  
12 off-system sales, prudence, purchased power costs, resource planning, rate design, retail  
13 open access, standby rates, transmission losses, transmission planning, transmission  
14 rates and transmission line routing.

15 I have also participated on behalf of clients in the Southwest Power Pool  
16 Congestion Management System Working Group, the Alliance Market Development  
17 Advisory Group and several committees and working groups of the Midcontinent  
18 Independent System Operator, Inc. (“MISO”), including the Congestion Management  
19 Working Group; Economic Planning Users Group; Loss of Load Expectation Working  
20 Group; Planning Subcommittee; Regional Expansion, Criteria and Benefits Working  
21 Group and Resource Adequacy Subcommittee (formerly the Supply Adequacy Working  
22 Group). I am currently a member of the MISO Advisory Committee in the end-use

1 customer sector on behalf of industrial customer groups in Illinois, Louisiana and Texas.  
2 I am also the past Chairman of the Issues/Solutions Subgroup of the MISO Revenue  
3 Sufficiency Guarantee (“RSG”) Task Force.

4 In 2009, I completed the University of Wisconsin-Madison High Voltage Direct  
5 Current (“HVDC”) Transmission course for Planners that was sponsored by MISO. I  
6 am a member of the Power and Energy Society (“PES”) of the Institute of Electrical and  
7 Electronics Engineers (“IEEE”).

8 In addition to our main office in St. Louis, the firm also has branch offices in  
9 Phoenix, Arizona and Corpus Christi, Texas.

**SUPPLEMENTAL TESTIMONY**

**OF**

**JAMES R. DAUPHINAIS**

On Behalf of the Office of Public Counsel

Before the

Florida Public Service Commission

Docket No. 20190061-EI

**I. INTRODUCTION**

1

2 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

3 A. James R. Dauphinais. My business address is 16690 Swingley Ridge Road,  
4 Suite 140, Chesterfield, MO 63017.

5

6 **Q. ARE YOU THE SAME JAMES R. DAUPHINAIS WHO FILED DIRECT**  
7 **TESTIMONY ON BEHALF OF FLORIDA OFFICE OF PUBLIC COUNSEL**  
8 **(“OPC”) REGARDING THE ORIGINAL CASE THAT FPL FILED?**

9 A. Yes, I am.

10

11 **Q. WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL TESTIMONY IN THIS**  
12 **DOCKET?**

13 A. On September 23, 2019, Florida Power & Light Company (“FPL” or  
14 “Company”) filed what it called rebuttal testimony in this proceeding that: (i) made new  
15 claims regarding its proposed SolarTogether Program that were not made in either its  
16 March 13, 2019 petition (“Petition”) or its July 29, 2019 direct testimony; (ii)

1 substantially changed the economic analysis FPL previously used in its attempt to  
2 justify its proposed SolarTogether Program; and (iii) substantially changed the terms  
3 and conditions of its proposed SolarTogether Program. This is essentially a new case.  
4 My supplemental testimony herein addresses FPL's new claims made in this new case,  
5 as well as its changes to its economic analysis and the proposed terms and conditions of  
6 the SolarTogether Program.

7 In addition, on October 9, 2019, FPL, Southern Alliance for Clean Energy,  
8 Walmart, Inc., and Vote Solar ("Joint Movants") filed a Joint Motion to Approve  
9 Settlement ("Joint Motion"), with the Joint Movants' non-unanimous Stipulation and  
10 Settlement Agreement attached as Exhibit A. My supplemental testimony also responds  
11 to the Joint Movants' Exhibit A.

12 The fact that I do not address any other particular issues in my testimony or am  
13 silent with respect to any portion of FPL's rebuttal testimony or the Joint Motion should  
14 not be interpreted as an approval of any position taken by FPL or any of the other Joint  
15 Movants.

16  
17 **Q. IN GENERAL, DO YOU OPPOSE THE ADDITION OF SOLAR GENERATION**  
18 **FACILITIES?**

19 A. No, I do not oppose the addition of solar generation facilities, so long as the  
20 additional solar generation facilities in question are either:

- 21
- Needed to provide reliable electric service at the lowest reasonable cost; or
  - Supported by subsidies from the utility, the customers in a voluntary solar program or both, such that the customers not participating in the voluntary solar program are not economically harmed by the pursuit of the additional solar generation facilities on behalf of the customers who are allowed to voluntarily participate in the program.
- 22  
23  
24  
25  
26  
27

1           Later in this testimony, I will explain why FPL's proposed solar generation  
2 facilities for its SolarTogether Program, with the modifications presented in FPL's  
3 rebuttal testimony and Joint Movants' Exhibit A, fail to meet either of these two  
4 criterion.

5  
6 **Q. IN GENERAL, DO YOU OPPOSE VOLUNTARY COMMUNITY SOLAR**  
7 **PROGRAMS?**

8 A.           No, I do not, provided the voluntary community solar program in question  
9 reduces the costs and risks faced by customers not participating in the program versus  
10 what they would be exposed to absent the program. This means that customers not  
11 participating in the program should not be any worse off economically under the  
12 program than they would be if the program did not exist. This is critical because, if this  
13 criterion is not met, the customers not participating in program will be forced to  
14 involuntarily subsidize the customers who are participating in the program and/or pay  
15 the utility for facilities that are uneconomic.

16           Later in my testimony, I will address why it is my opinion that FPL's proposed  
17 SolarTogether Program, with the modifications presented in FPL's rebuttal testimony  
18 and Joint Movants' Exhibit A, fails to meet this criterion.

19  
20 **Q. PLEASE DESCRIBE WHAT YOU REVIEWED AND ANALYZED IN**  
21 **PREPARING YOUR SUPPLEMENTAL TESTIMONY.**

22 A.           In addition to the materials I reviewed and analyzed for my direct testimony, I  
23 also reviewed and analyzed: (i) FPL's rebuttal testimony and exhibits; (ii) the Joint  
24 Motion; and (iii) FPL's responses to Interrogatories and Requests for Production of

1 Documents since the date my direct testimony was filed in this proceeding. I applied  
2 my knowledge and experience in conducting my review and analyses of the foregoing.

3  
4 **Q. PLEASE SUMMARIZE YOUR CONCLUSIONS AND RECOMMENDATIONS.**

5 A. I conclude the following:

- 6 • Despite the claims in FPL’s rebuttal testimony, FPL has failed to reasonably  
7 demonstrate that the solar generation facilities for its proposed SolarTogether  
8 Program, even with the modifications presented in the new case in FPL’s  
9 rebuttal testimony and Joint Movants’ Exhibit A, are needed to provide reliable  
10 electric service at the lowest reasonable cost; and
- 11  
12 • Despite the claims in FPL’s rebuttal testimony, FPL has failed to reasonably  
13 demonstrate that, even with the modifications presented in the new case  
14 contained in FPL’s rebuttal testimony and Joint Movants’ Exhibit A, Non-  
15 Participating Customers<sup>1</sup> are not any worse off economically under the proposed  
16 SolarTogether Program than they would be if the proposed SolarTogether  
17 Program was not pursued. Under the SolarTogether Program, I estimate Non-  
18 Participating Customers would, through the money they are required to pay FPL,  
19 pay a subsidy of approximately \$133 million on a Cumulative Present Value  
20 Revenue Requirement (“CPVRR”) basis to support the Participating Customers’  
21 use of the SolarTogether Program. As a result, Non-Participating Customers  
22 would be substantially worse off under the SolarTogether Program than they  
23 would be if the SolarTogether Program was not in place.

24  
25 For the above reasons, I recommend that the Commission deny FPL’s Petition  
26 for its SolarTogether Program under either the original case or the new case filings,  
27 including any approval related to the increased rate base sought by FPL in this  
28 proceeding for its proposed Phase 1 SolarTogether solar generation facilities.

---

<sup>1</sup> In my supplemental testimony, I am using the same definitions for Participating Customers and Non-Participating Customers as I did in my direct testimony on FPL’s original case. Specifically, Participating Customers are those FPL customers who can and do voluntarily choose to subscribe to FPL’s proposed SolarTogether Program. This term is also used by FPL. Non-Participating Customers are those FPL customers who have either chosen not to subscribe to the SolarTogether Program or are unable to subscribe to the SolarTogether Program. As I explained in my direct testimony, FPL uses the confusing term “general body of customers” when referring to Non-Participating Customers. Also consistent with my direct testimony, I use the term “FPL’s customers as a whole” when referring to Participating and Non-Participating Customers combined. (Dauphinais Direct at 8-9).

## II. THE QUESTION OF NEED

1  
2 **Q. DID FPL IN ITS PETITION AND DIRECT TESTIMONY IN ITS ORIGINAL**  
3 **CASE EVER CLAIM THE PROPOSED SOLARTOGETHER GENERATION**  
4 **FACILITIES ARE NEEDED TO PROVIDE RELIABLE ELECTRIC SERVICE**  
5 **TO ITS CUSTOMERS AT THE LOWEST REASONABLE COST?**

6 A. No, it did not. Nowhere in FPL’s Petition or direct testimony in its original case  
7 did FPL claim it needs to pursue the SolarTogether generation facilities to provide reliable  
8 electric service at the lowest reasonable cost to FPL’s customers as a whole. What FPL  
9 did claim is that: (i) it is proposing the SolarTogether Program “to meet the substantial  
10 demand from customers who are seeking expanded access to solar energy, including those  
11 who do not wish to or cannot install their own solar system through net metering” and (ii)  
12 the SolarTogether generation facilities would eliminate the need for certain future  
13 generation projects (Valle Direct at 6 and Enjamio Direct at 6). In addition, in response  
14 to discovery, FPL indicated that it would re-evaluate its pursuit of SolarTogether Projects  
15 4 and 5 if its proposed SolarTogether Program is not approved (FPL’s response to Staff’s  
16 Interrogatory No. 100).<sup>2</sup> Furthermore, FPL indicated in discovery that the proposed  
17 SolarTogether generation facilities accelerate part of the projected solar generation  
18 capacity additions shown in its 2019 Ten-Year Site Plan (“TYSP”) for the years 2022 to  
19 2024 (FPL’s response to Citizens’ Interrogatory No. 8).

---

<sup>2</sup> In Exhibit JRD-12, I have provided a copy of all of FPL’s public responses to interrogatories and requests for production of documents to which I cite in my supplemental testimony.

1 **Q. WHAT DOES FPL CLAIM IN ITS REBUTTAL TESTIMONY IN ITS NEW CASE**  
2 **WITH RESPECT TO WHETHER THE SOLARTOGETHER GENERATION**  
3 **FACILITIES ARE NEEDED?**

4 A. FPL now claims it has demonstrated a need for the solar generation facilities  
5 associated with FPL's proposed SolarTogether Program through its responses to Staff's  
6 interrogatories. It also provided its Exhibit JE-5 in an effort to substantiate its new claim  
7 that the SolarTogether generation facilities are needed (Enjamio Rebuttal at 3).

8  
9 **Q. HOW DO YOU RESPOND TO FPL'S CLAIM?**

10 A. First, it is important to note that FPL is the party that has the burden to  
11 demonstrate in its direct testimony whether its proposed solar generation facilities are  
12 needed to provide reliable electric service at the lowest reasonable cost. As such, if FPL  
13 wanted to make such a claim, it had the responsibility to make and support such a claim  
14 in its direct testimony. It did not do so, and instead, indicated in response to discovery  
15 to its Petition and direct testimony that: (i) FPL may not necessarily pursue all of its  
16 proposed SolarTogether generation facility projects if the SolarTogether Program is not  
17 approved by the Commission and (ii) the SolarTogether generation facilities represent  
18 an acceleration of projected FPL solar generation additions that are in its TYSP. This  
19 posture undermines any claim that need is the motivation for the projects.

20 Furthermore, FPL's Exhibit JE-5 does not actually support FPL's need claim.  
21 In Table JRD-1 below, I compare the capacity that FPL in Exhibit JE-5 forecasts it needs  
22 to maintain what it describes as a minimum planning reserve margin of 20%, versus  
23 capacity provided by the proposed SolarTogether generation facilities.

**TABLE JRD-1**

**SolarTogether Phase 1 Capacity in Excess of FPL’s Forecasted Need**

<u>Year</u>	<u>FPL’s Forecasted Summer MW Needed to Meet 20% Reserve Margin</u>	<u>Summer MW that would be Provided by SolarTogether</u>	<u>SolarTogether Summer MW in Excess of FPL Forecasted Need</u>	<u>SolarTogether Nameplate MW<sub>AC</sub> in Excess of FPL Forecasted Need</u>
2020	19	220	201	408
2021	252	735	483	979
2022	400	735	335	679
2023	764	735	0	0
2024	1,216	735	0	0

1           As can be seen from Table JRD-1, even under FPL’s own forecast, 408 MW<sub>AC</sub>  
2 of the 447 MW<sub>AC</sub> of SolarTogether generation projects that would enter service in 2020  
3 would not be needed to meet what FPL suggests is the minimum planning reserve  
4 margin requirement of 20% that FPL is currently using.<sup>3</sup> Furthermore, only 64 MW<sub>AC</sub>  
5 of the 1,043 MW<sub>AC</sub> of SolarTogether generation projects that would enter service in  
6 2021 would be needed to meet the 20% planning reserve margin requirement in 2021.

---

<sup>3</sup> The OPC takes the position that Order No. PSC-1999-2507-S-EU and its attached stipulation at paragraph 6 make it clear that the 20% minimum reserve margin planning criterion was not an unbounded minimum, but instead was essentially a target that would be maintained “for the indefinite future.” While deviations could occur to “adapt to relevant circumstances,” the Commission reserved the right to take action in response to any changes in the planning criteria. (*Id.* at 9.) In other words, there is a presumption that the 20% is a target reserve margin planning criterion, and neither FPL nor any other utility has unbridled discretion to make the reserve margin planning criterion any number above 20%. My reading of the stipulation attached to Order No. PSC-1999-2507-S-EU, combined with my planning experience, leads me to believe that this is the correct view of how the reserve margin should operate.

1 In addition, in 2022, FPL is forecasting that only 364 MW<sub>AC</sub> of that 1,043 MW<sub>AC</sub> of  
2 SolarTogether generation would be needed to meet the 20% planning reserve margin  
3 requirement.

4 Given all of the foregoing, the Phase 1 SolarTogether generation facilities  
5 should only be considered eligible for approval by the Commission if FPL can  
6 reasonably demonstrate that Non-Participating Customers will not be economically  
7 harmed by this accelerated deployment of projected solar generation additions by FPL.  
8 Otherwise, as I noted earlier, Non-Participating Customers will end up subsidizing  
9 Participating Customers or, worse yet, subsidizing FPL's shareholders, by paying for  
10 investment that is both uneconomic and not needed to provide reliable electric service  
11 at the lowest reasonable cost to FPL's customers.

12  
13 **III. FPL's REVISED ECONOMIC ANALYSIS**

14 **Q. PLEASE BRIEFLY REVIEW THE ECONOMIC ANALYSIS CONTAINED IN**  
15 **FPL'S DIRECT TESTIMONY FOR THE SOLARTOGETHER GENERATION**  
16 **FACILITIES FOR FPL'S CUSTOMERS AS A WHOLE.**

17 **A.** Under its mid-level fuel / mid-level CO<sub>2</sub> emission price assumptions, FPL in the  
18 economic analysis contained in its direct testimony for its original case forecasted the  
19 Phase 1 SolarTogether generation projects would provide a net CPVRR savings for  
20 FPL's customers as a whole of \$139 million at the end of the 30-year book life of the  
21 projects in 2051, with a forecasted CPVRR payback for FPL's customers as a whole  
22 occurring in 2045 – approximately 24 years after the last of the Phase 1 SolarTogether

1 generation projects would enter service (Dauphinais Direct at 14-15). Additionally, in  
2 discovery, FPL provided the results of a sensitivity analysis it performed with respect  
3 to its fuel and CO<sub>2</sub> emission price assumptions. That sensitivity analysis showed that,  
4 for the range of assumption variations examined by FPL, the forecasted net CPVRR in  
5 2051 for FPL's customers as a whole ranged from a net cost of \$121 million for FPL's  
6 low fuel / low CO<sub>2</sub> emission price case to a net savings of \$456 million for FPL's high  
7 fuel / high CO<sub>2</sub> emission price case (Dauphinais Direct 16-18).

8           Given these results, and the fact that FPL's extensive recent investments in its  
9 SoBRA solar projects likely have similar borderline economics, I concluded that the  
10 Phase 1 SolarTogether generation projects are not FPL's most cost effective solution  
11 for FPL's customers as a whole to meet FPL's current reliability needs, assuming the  
12 Phase 1 SolarTogether Projects are needed for reliability (Dauphinais Direct 18-21). I  
13 also noted that FPL failed to demonstrate in its Petition and direct testimony that the  
14 Phase 1 SolarTogether generation projects are needed for reliability (Dauphinais Direct  
15 at 21).

16  
17 **Q. PLEASE DESCRIBE FPL'S REVISED ECONOMIC ANALYSIS PRESENTED**  
18 **IN ITS NEW CASE IN ITS REBUTTAL TESTIMONY.**

19 A.           In its revised economic analysis that it presented in its new case in its rebuttal  
20 testimony, FPL made two changes. First, it decided not to seek an Allowance for Funds  
21 Used During Construction ("AFUDC") amount for SolarTogether Projects 3, 4 and 5  
22 (Valle Rebuttal at 10, Brannen Rebuttal at 4-5, Enjamio Rebuttal at 4, and Bores  
23 Rebuttal at 3). This decreased the 30-year book life CPVRR of the Phase 1

1 SolarTogether projects for FPL’s customers as a whole by approximately \$45 million  
2 (Bores Rebuttal at 3).

3 Second, FPL decided to change its baseline resource addition assumptions in  
4 both its SolarTogether case and its reference No SolarTogether case to reflect a  
5 sensitivity analysis that the Commission Staff requested in Staff Interrogatory No. 190  
6 (Enjamio Rebuttal at 4). Staff’s sensitivity analysis request asked FPL to examine  
7 inclusion of the 2020 SoBRA projects and FPL’s proposed Demand Side Management  
8 (“DSM”) goals in both FPL’s SolarTogether case and FPL’s No SolarTogether  
9 reference case (Staff Interrogatory No. 190). Even though this change was made both  
10 in the SolarTogether case and the No SolarTogether reference case, it nevertheless  
11 resulted in a further \$65 million decrease in the forecasted 30-year book life CPVRR of  
12 the Phase 1 SolarTogether projects for FPL’s customers as a whole.

13  
14 **Q. HAS FPL PROVIDED ANY EXPLANATION WITH RESPECT TO WHY**  
15 **ADDING THE 2020 SOBRA PROJECTS AND ITS PROPOSED DSM GOALS**  
16 **TO BOTH THE SOLARTOGETHER CASE AND THE NO SOLARTOGETHER**  
17 **REFERENCE CASE WOULD CAUSE THE 30-YEAR BOOK LIFE CPVRR OF**  
18 **THE PHASE 1 SOLARTOGETHER PROJECTS TO FALL BY \$65 MILLION**  
19 **FOR FPL’S CUSTOMERS AS A WHOLE?**

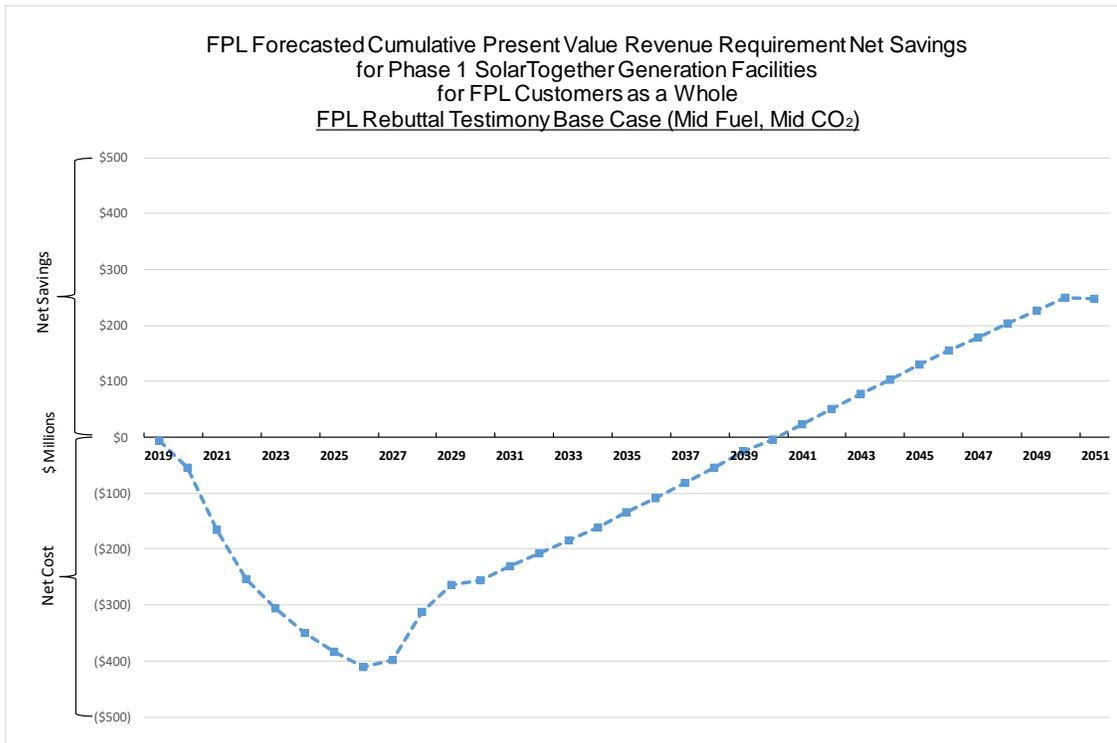
20 A. No, it has not. However, FPL indicated in rebuttal testimony that it used its  
21 EGEAS resource optimization model to select new future resource portfolios with the  
22 2020 SoBRA projects and DSM goals forced in (Enjamio Rebuttal at 4). This  
23 apparently caused changes to the assumed future resource portfolios for the two cases,  
24 such that it improved the 30-year book life CPVRR economics of the SolarTogether

1 case by approximately \$65 million versus the No SolarTogether reference case  
2 (Enjamio Rebuttal at 7 and Bores Rebuttal at 3). However, FPL has failed to explain  
3 whether this is in fact what happened, and, if so why it happened.  
4

5 **Q. WHEN THESE CHANGES WERE CONSIDERED TOGETHER, HOW DID IT**  
6 **CHANGE FPL'S FORECASTED ECONOMICS FOR THE PHASE 1**  
7 **SOLARTOGETHER GENERATION PROJECTS FOR FPL'S CUSTOMERS**  
8 **AS A WHOLE?**

9 A. Under its mid-level fuel / mid-level CO<sub>2</sub> emission price assumptions, FPL in its  
10 rebuttal testimony economic analysis forecasted that the Phase 1 SolarTogether  
11 generation projects would provide a net CPVRR savings for FPL's customers as a whole  
12 of \$249 million at the end of the 30-year book life of the projects in 2051 with a  
13 forecasted CPVRR payback for FPL's customers as a whole occurring in 2041 –  
14 approximately 20 years after the last of the Phase 1 SolarTogether generation projects  
15 would enter service, as shown below in Figure JRD-6. I also present this information  
16 in tabular form in Exhibit JRD-8.

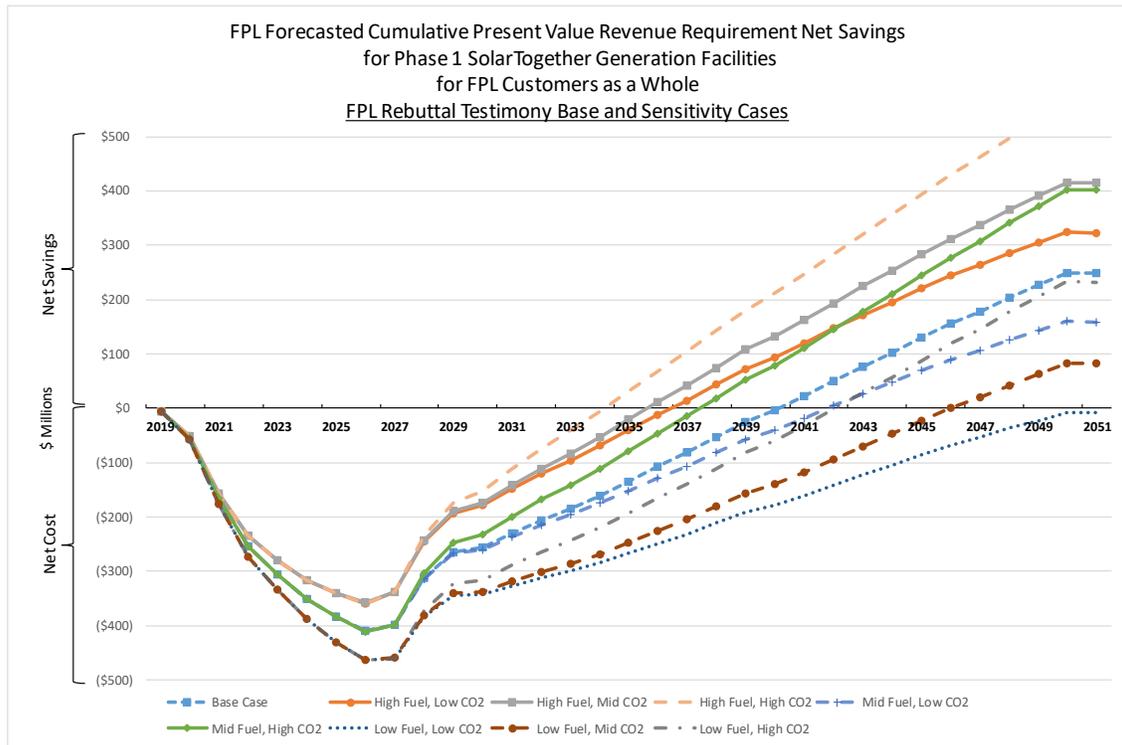
**Figure JRD-6**



Source: FPL Response to Staff Interrogatory No. 78 Amended.

1                    Under its rebuttal testimony sensitivity analysis, for the range of assumption  
 2                    variations applied by FPL, the forecasted net CPVRR in 2051 for FPL’s customers as a  
 3                    whole ranged from a net cost of 8 million for FPL’s low fuel / low CO<sub>2</sub> emission price  
 4                    case to a net savings of \$563 million for FPL’s high fuel / high CO<sub>2</sub> emission price case,  
 5                    as shown below in Figure JRD-7. I also present this information in tabular form in  
 6                    Exhibit JRD-9.

Figure JRD-7



1                   While FPL’s revised economic analysis is improved with respect to moving the  
 2                   CPVRR payback year for customers as a whole forward four years and reducing the  
 3                   forecasted risk for customers as a whole, there is still nevertheless a risk that the Phase  
 4                   1 SolarTogether generation projects, which are not needed to provide reliable electric  
 5                   service at the lowest reasonable cost, would cause FPL’s customers as a whole to  
 6                   experience a net CPVRR cost over the 30-year book life of the projects. More  
 7                   importantly, even if the Commission were to find the above economics reasonable, the  
 8                   above economics are not the economics being offered to Non-Participating Customers  
 9                   because FPL is not proposing these projects for its customers as a whole, such that their  
 10                  costs and benefits of the projects would be rolled into rates and the Fuel Clause like any  
 11                  other FPL generation project. Instead, as I discuss further below, FPL through its  
 12                  proposed SolarTogether Program, is proposing to impose significantly worse economics

1 on Non-Participating Customers by requiring them to fund, through rates and the Fuel  
2 Clause, a net \$137 million 30-year book life CPVRR payment to Participating  
3 Customers that the latter will receive through FPL's proposed SolarTogether Rider.  
4

#### 5 **IV. FPL's SOLARTOGETHER PROGRAM IN REBUTTAL TESTIMONY**

6 **Q. PLEASE BRIEFLY DESCRIBE HOW FPL MODIFIED ITS PROPOSED**  
7 **SOLARTOGETHER PROGRAM IN ITS REBUTTAL TESTIMONY.**

8 A. In its rebuttal testimony, FPL changed the allocation of the cost and benefits  
9 between Participating and Non-Participating Customers of its proposed Phase 1  
10 SolarTogether generation projects. Specifically, under FPL's rebuttal testimony,  
11 Participating Customers are paid 55% of the net mid-level fuel / mid-level CO<sub>2</sub> price  
12 forecasted benefit of the Phase 1 SolarTogether generation projects (Bores Rebuttal at  
13 5). This amount is only subject to adjustment for differences between actual and  
14 forecasted energy production by the SolarTogether generation projects and the level of  
15 total customer subscription to the SolarTogether Program.

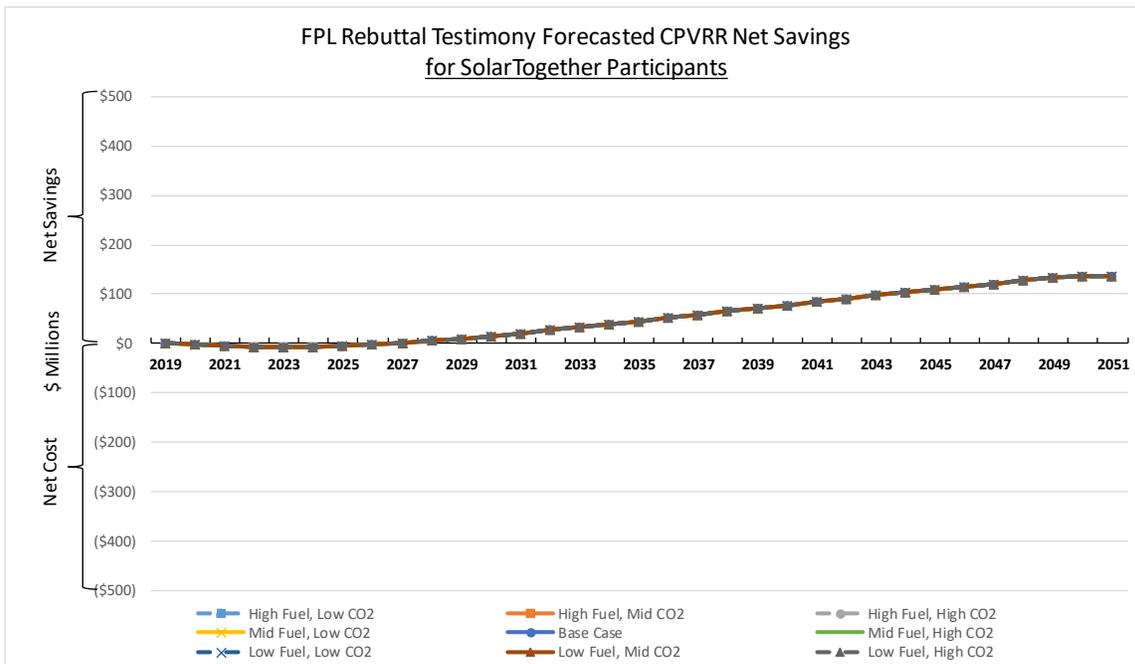
16 Non-Participating Customers are assigned the actual costs and benefits of the  
17 Phase 1 SolarTogether generation projects, less what is paid out on a net basis to  
18 Participating Customers. If the actual costs and benefits of the Phase 1 SolarTogether  
19 generation projects turned out to be exactly equal to FPL's mid-level fuel / mid-level  
20 CO<sub>2</sub> price forecasted costs and benefits for the generation projects, Non-Participating  
21 Customers would receive 45% of the forecasted net benefit of the Phase 1 SolarTogether  
22 generation projects. However, the actual costs and benefits for the projects can greatly  
23 deviate from FPL's mid-level fuel / mid-level CO<sub>2</sub> price forecasted costs and benefits  
24 for the projects because the actual results are very sensitive to fuel and emission prices

1 and also affected by actual construction costs, actual O&M costs, actual energy  
 2 production and actual program subscription levels.

3  
 4 **Q. WHAT ARE THE ECONOMICS FOR THE REBUTTAL TESTIMONY**  
 5 **VERSION OF FPL’S PROPOSED SOLARTOGETHER PROGRAM UNDER**  
 6 **FPL’S REVISED ECONOMIC ANALYSIS?**

7 A. From FPL’s amended response to Staff Interrogatory No. 79, I have performed  
 8 the necessary calculations and have plotted FPL’s rebuttal testimony forecasted year-  
 9 by-year CPVRR net savings for the Phase 1 SolarTogether generation projects for  
 10 Participating Customers for FPL’s mid-level fuel / mid-level CO<sub>2</sub> price base case and  
 11 FPL’s eight sensitivity cases in Figure JRD-8 below. I also present this information in  
 12 tabular form in Exhibit JRD-10.

**Figure JRD-8**

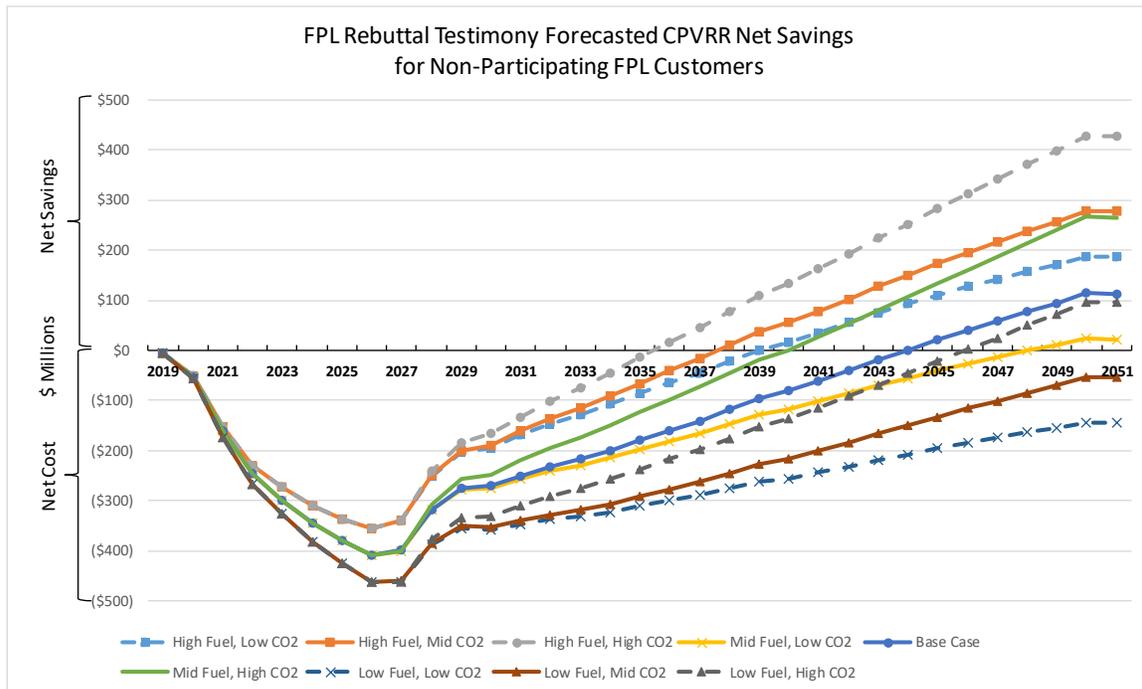


Source: FPL Response to Staff Interrogatory No. 79 Amended.

1           As can be seen from Figure JRD-8 above, subject only to variation in actual  
2 solar energy production from forecast and the actual level of customer subscription,  
3 Participating Customers will receive a net \$137 million benefit on a 30-year book life  
4 CPVRR basis and will receive a CPVRR payback in 2027 – less than 6 years after the  
5 last of the Phase 1 SolarTogether generation projects would enter service. As can be  
6 clearly seen, neither the net amount received by the Participating Customers nor the  
7 CPVRR payback year for Participating Customers is sensitive in any way to fuel and  
8 emission prices. Nor are they sensitive to the actual construction costs and actual O&M  
9 costs for the Phase 1 SolarTogether generation projects. **As a result, Participating**  
10 **Customers are not exposed to any risk from fluctuating fuel and emission prices**  
11 **or cost overruns associated with the SolarTogether generation projects.**

12           The economics for Non-Participating Customers for FPL’s mid-level fuel / mid-  
13 level CO<sub>2</sub> price base case and FPL’s eight other sensitivity cases are presented below in  
14 Figure JRD-9. I also present this information in tabular form in Exhibit JRD-11.

Figure JRD-9



1                   There are several striking things about these forecasted values for Non-  
2 Participating Customers. Specifically:

3                   • **Disparate Treatment for Non-Participants:**

4                   Unlike for Participating Customers, the forecasted net CPVRR benefit for Non-  
5 Participating Customers is highly sensitive to variations in fuel and emission  
6 prices.

7  
8                   • **Significantly Delayed Payback for Non-Participants:**

9                   The forecasted CPVRR payback year for Non-Participating Customers is  
10 significantly later than for Participating Customers, ranging from 2036 (15  
11 years) for FPL's high-fuel / high-CO<sub>2</sub> price case to never in FPL's Low-Fuel /  
12 Mid-CO<sub>2</sub> price and Low-Fuel / Low-CO<sub>2</sub> price cases. **Under the latter two  
13 sensitivity cases, Non-Participating Customers would be facing a 30-year  
14 book life net CPVRR cost of between \$54 million and \$145 million rather  
15 than a net CPVRR benefit.**

16  
17                   • **Significantly Worse Economics for Non-Participants:**

18                   As can be seen by a comparison of my Figure JRD-9 to my Figure JRD-7, the  
19 economics are significantly worse for Non-Participating Customers under FPL's  
20 rebuttal testimony SolarTogether Program than they would be for those

1 customers if FPL instead pursued the SolarTogether generation projects as a  
2 normal generation addition for its customers as a whole.

3 With respect to the last point, if the SolarTogether generation projects were  
4 pursued as normal FPL generation projects, Non-Participating Customers would have a  
5 forecasted CPVRR payback within 20 years (in 2041) under FPL's mid-level fuel / mid-  
6 level CO<sub>2</sub> price assumptions. With the projects pursued through the SolarTogether  
7 Program, the CPVRR payback for Non-Participating Customers is not until 24 years (in  
8 2045). Furthermore, under the most adverse FPL fuel and emission price assumptions  
9 (low-fuel / low-CO<sub>2</sub> prices), if the SolarTogether generation projects were pursued as  
10 normal FPL generation projects, Non-Participating Customers have a forecasted 30-  
11 year book life net CPVRR cost of only \$8 million for the projects. With the projects  
12 pursued through the SolarTogether Program, Non-Participating Customers have a  
13 forecasted 30-year book life net CPVRR cost of \$145 million for the projects. Table  
14 JRD-2 below provides a more complete comparison of the adverse impact on Non-  
15 Participating Customers of FPL pursuing the SolarTogether projects through its  
16 proposed SolarTogether Program rather than as normal FPL generation projects.

TABLE JRD-2

<b>Scenario</b>	<b>Normal Generation Project</b>		<b>SolarTogether Program Project</b>		<b>Adverse Impact to Non-Participating Customers Due to SolarTogether Program</b>	
	<b>CPVRR Net Savings (millions)</b>	<b>CPVRR Payback Time (years)</b>	<b>CPVRR Net Savings (millions)</b>	<b>CPVRR Payback Time (years)</b>	<b>CPVRR Net Savings Decrease (millions)</b>	<b>Increase in Time to CPVRR Payback (years)</b>
Low Fuel Low CO <sub>2</sub>	(\$8)	No Payback	(\$145)	No Payback	\$137	No Payback
Low Fuel Mid CO <sub>2</sub>	\$82	26	(\$54)	No Payback	\$137	No Payback
Low Fuel High CO <sub>2</sub>	\$232	22	\$96	25	\$137	3
Mid Fuel Low CO <sub>2</sub>	\$159	21	\$22	28	\$137	7
Mid Fuel Mid CO <sub>2</sub>	\$249	20	\$112	24	\$137	4
Mid Fuel High CO <sub>2</sub>	\$401	17	\$265	19	\$137	2
High Fuel Low CO <sub>2</sub>	\$323	16	\$186	18	\$137	2
High Fuel Mid CO <sub>2</sub>	\$414	15	\$277	17	\$137	2
High Fuel High CO <sub>2</sub>	\$563	14	\$427	15	\$137	1

1 **Q. WHAT DO YOU CONCLUDE FROM THE ABOVE?**

2 A. FPL's pursuit of the SolarTogether generation projects through its proposed  
3 SolarTogether Program rather than as normal FPL generation projects has a large  
4 adverse impact on Non-Participating Customers – customers who have either chosen  
5 not to subscribe to the SolarTogether Program or who are unable to subscribe to the  
6 SolarTogether Program. As a result, even as modified in FPL's rebuttal testimony,  
7 customers not participating in the program would be worse off economically under the  
8 SolarTogether Program than they would be if the SolarTogether Program did not exist.  
9 Therefore, the SolarTogether Program requires that Non-Participating Customers pay a  
10 subsidy to support Participating Customers. Thus, even if the Commission were to find  
11 the SolarTogether generation projects were needed to provide reliable electric service  
12 at the lowest reasonable cost or were to find the economics for the SolarTogether  
13 generation projects for FPL's customers as a whole were reasonable, it should still reject  
14 the SolarTogether Program itself because the program would require Non-Participating  
15 Customers to involuntarily subsidize Participating Customers.

16

17 **Q. HAVE YOU ESTIMATED THE AMOUNT OF THE SUBSIDY THAT NON-**  
18 **PARTICIPATING CUSTOMERS, THROUGH THE MONEY THEY ARE**  
19 **REQUIRED TO PAY FPL, WOULD HAVE TO PAY PARTICIPATING**  
20 **CUSTOMERS UNDER THE SOLARTOGETHER PROGRAM AS MODIFIED**  
21 **IN FPL'S REBUTTAL TESTIMONY?**

22 A. Yes, I have done so. In Exhibit C of FPL's Petition, FPL provided its annual  
23 forecast of MWh of SolarTogether generation. This is typically most years  
24 approximately 3,300,000 MWh per year for the period of 2020 through 2051. Page

1 401a of FPL's April 18, 2019 FERC Form 1 filing for calendar year 2018 reported  
2 annual retail sales of 110,072,760 MWh for FPL. As a result, only approximately 3%  
3 of FPL's total retail sales would be participating in Phase 1 of FPL's SolarTogether  
4 Program. 3% of the 30-year \$249 million CPVRR net savings for FPL customers as a  
5 whole that FPL is forecasting under its mid-level fuel / mid-level CO<sub>2</sub> price assumptions  
6 is only \$7.5 million. This is roughly the portion of the net savings that Participating  
7 Customers would have been entitled to if FPL was pursuing the SolarTogether  
8 generation facilities as a normal generation project. Under the SolarTogether Program,  
9 Participating Customers would instead receive a \$137 million CPVRR payment through  
10 subscription credits less subscription charges. In addition, Participating Customers  
11 under the SolarTogether Program would also receive, through normal retail rates and  
12 the Fuel Clause, approximately 3% of the \$112 million in CPVRR net savings  
13 forecasted for Non-Participating Customers under the SolarTogether Program under  
14 FPL's mid-level fuel / mid-level CO<sub>2</sub> price assumptions, or \$3.4 million. Given this, I  
15 estimate that under FPL's SolarTogether Program, as modified by its rebuttal testimony,  
16 Non-Participating Customers would, through the money they are required to pay FPL,  
17 pay Participating Customers a 30-year book life CPVRR subsidy of approximately \$133  
18 million<sup>4</sup> under FPL's mid-level fuel / mid-level CO<sub>2</sub> price assumptions.<sup>5</sup> That \$133  
19 million subsidy the Non-Participating Customers are required to pay accounts for nearly  
20 all of the \$137 million that Participating Customers would be paid through subscription

---

<sup>4</sup> \$133 million  $\approx$  \$132.9 million = \$137 million - \$7.5 million + \$3.4 million

<sup>5</sup> The subsidy is approximately \$133 million under all nine of FPL's sensitivity scenarios. For example, under FPL's high-fuel / high-CO<sub>2</sub> price scenario, 3% of the \$563 million in forecasted net CPVRR savings for FPL customers as a whole is \$16.9 million and 3% of the \$427 million in forecasted net CPVRR savings for Non-Participating Customers is \$12.8 million. \$137 million less \$16.9 million plus \$12.8 million is \$132.9 million or approximately \$133 million.

1 credits less subscription charges under the SolarTogether Program. **Simply put, Non-**  
2 **Participating Customers – who are already on the hook for all the fuel and emission**  
3 **price risk – would also be required to pay for the benefits that FPL is assigning to**  
4 **Participating Customers.**

5  
6 **V. JOINT MOVANTS' EXHIBIT A**

7 **Q. PLEASE BRIEFLY DESCRIBE JOINT MOVANTS' EXHIBIT A.**

8 A. Joint Movants' Exhibit A is a non-unanimous Stipulation and Settlement  
9 Agreement between the Joint Movants. The Joint Movants filed a motion on October  
10 9, 2019, requesting that the Commission approve Exhibit A. OPC is not a party to  
11 Exhibit A and filed a response in opposition to Exhibit A on October 16, 2019.

12  
13 **Q. HOW DO THE JOINT MOVANTS PROPOSE TO RESOLVE THIS CURRENT**  
14 **PROCEEDING?**

15 A. In Exhibit A, the Joint Movants propose to essentially adopt FPL's rebuttal  
16 testimony version of the SolarTogether Program with only minor modifications to  
17 accommodate low income customers as Participating Customers (Joint Movants'  
18 Exhibit A at paragraphs 4 and 5 and FPL's response to Citizens' Interrogatory No. 57).  
19 These special provisions for low income Participating Customers would be solely  
20 funded by non-low income Participating Customers (*Id.*). Nothing in Exhibit A would  
21 change the costs and benefits allocated to Non-Participating Customers under the FPL  
22 rebuttal testimony version of the SolarTogether Program.

1 **Q. HOW DO YOU RESPOND TO EXHIBIT A?**

2 A. I recommend that the Commission reject Exhibit A. The Joint Movants consist  
3 of FPL, advocates for solar generation expansion, and customers that plan on becoming  
4 Participating Customers. As a result, Exhibit A not surprisingly does nothing to resolve  
5 the concerns I have raised in my supplemental testimony herein, including the \$133  
6 million subsidy that would be paid by Non-Participating Customers to Participating  
7 Customers under FPL's proposed SolarTogether Program.

8  
9 **VI. RESPONSE TO OTHER FPL REBUTTAL TESTIMONY CLAIMS**

10 **Q. FPL WITNESS VALLE SUGGESTS THE COMMISSION SHOULD NOT BE**  
11 **CONCERNED THAT THE FPL SOLARTOGETHER PROGRAM IS**  
12 **INVOLUNTARY FOR NON-PARTICIPATING CUSTOMERS, SINCE BOTH**  
13 **PARTICIPATING CUSTOMERS AND NON-PARTICIPATING CUSTOMERS**  
14 **ARE PROJECTED TO RECEIVE BENEFITS AND THE NON-**  
15 **PARTICIPATING CUSTOMERS ARE SUBJECT TO FLUCTUATIONS IN**  
16 **FUEL AND EMISSION COSTS UNDER THE SOLARTOGETHER PROGRAM**  
17 **JUST LIKE THEY ARE FOR FPL'S GENERATION IN GENERAL (VALLE**  
18 **REBUTTAL AT 8-9). HOW DO YOU RESPOND?**

19 A. Mr. Valle's reasoning ignores two important facts. First, the net benefit assigned  
20 to Participating Customers, unlike the net benefit assigned to Non-Participating  
21 Customers, is protected under the SolarTogether Program from being subject to  
22 fluctuations in fuel and emission costs. In addition, as I discussed earlier in this  
23 testimony, under the SolarTogether Program, Non-Participating Customers are  
24 involuntarily required, through FPL's rates and fuel charges, to surrender to

1 Participating Customers \$133 million of the CPVRR net benefit they would have  
2 otherwise been entitled to receive if the SolarTogether generation projects were pursued  
3 as normal FPL generation projects rather than through the SolarTogether Program.  
4

5 **Q. MR. VALLE CLAIMS THAT PRIVATE CUSTOMER-OWNED SOLAR**  
6 **GENERATION UNDER THE STATE'S NET METERING RULE IS CAUSING**  
7 **FPL'S CUSTOMERS NOT OWNING SUCH GENERATION TO PAY THOSE**  
8 **THAT DO OWN SUCH GENERATION SUBSIDIES OF \$13 MILLION PER**  
9 **YEAR THAT FPL ESTIMATES WILL GROW TO \$121 MILLION PER YEAR**  
10 **BY 2022 (VALLE REBUTTAL AT 9). HE ALSO CLAIMS THE PROPOSED**  
11 **SOLARTOGETHER PROGRAM COMPARES VERY FAVORABLY TO THIS**  
12 **(ID.). SIMILARLY, FPL WITNESS DEASON ARGUES ONE OF THE**  
13 **ADVANTAGES OF THE SOLARTOGETHER PROGRAM IS RETENTION OF**  
14 **THE LOAD OF CUSTOMERS THAT WOULD OTHERWISE SEEK OTHER**  
15 **RENEWABLE GENERATION ALTERNATIVES (DEASON REBUTTAL AT**  
16 **22-23). HOW DO YOU RESPOND?**

17 A. First, even if Mr. Valle is correct with respect to the subsidies that FPL is  
18 claiming flow from its customers that do not own solar generation to those that do own  
19 solar generation, it does not justify requiring Non-Participating Customers to be  
20 required to pay a 30-year book life \$133 million CPVRR subsidy to benefit Non-  
21 Participating Customers under FPL's proposed SolarTogether Program. Furthermore,  
22 Mr. Valle implies and Mr. Deason essentially suggests that the SolarTogether Program  
23 would reduce the customer investment in their own solar generation facilities and as a  
24 result reduce the subsidies that FPL claims such customers receive from those without

1 such generation of their own under the state's net metering rule. However, when FPL  
2 was asked in Citizens' Interrogatory No. 37 and Citizens' Request for Production of  
3 Documents No. 43 to provide any studies it may have with respect to how the  
4 SolarTogether Program might affect the growth of customer-owned solar generation on  
5 its system or retain customer load, it indicated that the forecasts of customer-owned  
6 solar generation it has developed do not contemplate the SolarTogether Program and  
7 that it has not performed any studies with respect to the SolarTogether Program  
8 retaining customer load. Thus, there is no evidence to support the allegation by Mr.  
9 Deason or FPL that FPL's SolarTogether Program would reduce the cross-subsidies that  
10 FPL claims exist under the state net metering rule between those customers that own  
11 solar generation and those that do not. Nor is there any evidence that the SolarTogether  
12 Program would retain customer load.

13  
14 **Q. MR. VALLE CLAIMS THAT IN FPL'S NEW CASE THE SOLARTOGETHER**  
15 **PROGRAM REASONABLY ALLOCATES BENEFITS AND COSTS OF THE**  
16 **SOLARTOGETHER GENERATION FACILITIES TO PARTICIPATING AND**  
17 **NON-PARTICIPATING CUSTOMERS BY ALLOCATING 104.5% OF THE**  
18 **NET BASE REVENUE REQUIREMENT TO PARTICIPATING CUSTOMERS**  
19 **WHILE ALLOCATING 45% OF NET BENEFITS TO NON-PARTICIPATING**  
20 **CUSTOMERS (VALLE REBUTTAL AT 10-12). HOW DO YOU RESPOND?**

21 A. Mr. Valle is mischaracterizing the situation. The benefits and costs of the  
22 SolarTogether generation facilities are not reasonably allocated between Participating  
23 and Non-Participating Customers under FPL's proposed SolarTogether Program.

1           Assuming full subscription, which is very likely, Participating Customers under  
2           the SolarTogether Program are essentially nearly guaranteed to receive the 55% of total  
3           *forecasted* net benefits that are allocated to them. This is because, short of subsequent  
4           changes by the Commission, over the life of the SolarTogether Program, the  
5           Participating Customer subscription charges are fixed and the Participating Customer  
6           subscription credits that are paid out are only subject to adjustment to the extent actual  
7           solar energy production deviates from the forecasted level. As a result, as I discussed  
8           at length in my direct testimony, Participating Customers are not taking on **any** risks of  
9           consequence (Dauphinais Direct at 33-34). Therefore, Participating Customers under  
10          the SolarTogether Program are at no significant risk of not recovering the \$1.315 billion  
11          net base revenue requirement allocated to them, or not being paid the \$1.452 billion in  
12          gross benefits allocated to them (*Id.* and Valle Rebuttal at 13). Participating Customers  
13          are nearly guaranteed to actually receive the \$137 million in forecasted net benefits that  
14          are allocated to them.

15                 Non-Participating Customers, on the other hand, are in a different situation and  
16                 it is one that is being involuntarily imposed upon them under the proposed  
17                 SolarTogether Program. First, and foremost, under the SolarTogether Program, Non-  
18                 Participating Customers are essentially guarantors of both the payment of the net  
19                 benefits assigned to Participating Customers and FPL's recovery of, and return on, the  
20                 investment in the SolarTogether generation facilities. This is because, unlike  
21                 Participating Customers who are nearly guaranteed to receive their assigned net benefit,  
22                 and FPL, who is basically guaranteed to recover and earn a return on its investment in  
23                 the SolarTogether generation facilities, Non-Participating Customers are ultimately  
24                 assigned *all* of the actual risks, costs and benefits of SolarTogether generation projects,

1 along with the obligation to fund the *forecasted* net benefit being provided to Non-  
2 Participating Customers. This is because FPL is proposing to place the entire  
3 investment in the SolarTogether generation projects into rate base and flow the entire  
4 actual impact of the SolarTogether generation facilities on its fuel and emission costs  
5 through the Fuel Clause.

6 Assuming full subscription of the SolarTogether Program, Non-Participating  
7 Customers will receive via FPL \$1.315 billion in revenue credits on a 30-year book life  
8 CPVRR basis from the subscription charges assessed to Participating Customers;  
9 however, Non-Participants will also be required to pay, via the Fuel Clause, \$1.452  
10 billion in subscription credits on a 30-year book life CPVRR basis to those same  
11 Participating Customers. Over the life of the SolarTogether Program, this results in  
12 Non-Participants paying \$137 million *more* through the Fuel Clause on a CPVRR basis  
13 than they stand to receive back in revenue credits. Furthermore, the collection of  
14 subscription charges and the payment of subscription charges is inseparable. This is to  
15 say that a Participating Customer cannot receive a subscription credit unless it also pays  
16 a subscription charge. As a result, what is really happening under the SolarTogether  
17 Program is that Non-Participating Customers, through the money they are required to  
18 pay to FPL, are essentially paying Participating Customers \$137 million on a 30-year  
19 book life CPVRR basis, while still taking on all of the costs and risks they would have  
20 if FPL instead pursued the SolarTogether generation facilities as a normal generation  
21 project. As I detailed earlier in this testimony, this results in Participating Customers,  
22 at the expense of Non-Participating Customers, receiving approximately \$133 million  
23 more on a 30-year CPVRR basis than they would have received without the  
24 SolarTogether Program, despite the fact that Non-Participating Customers are

1 ultimately taking on the same costs and risks as they would if the SolarTogether  
2 generation facilities were instead pursued as a normal FPL generation project. As a  
3 result, Non-Participating Customers are basically being required to pay a \$133 million  
4 subsidy to Participating Customers on a 30-year book life CPVRR basis.

5  
6 **Q. MR. VALLE CLAIMS THE USE OF PPAS WAS NOT SUITABLE FOR THE**  
7 **SOLAR GENERATION FACILITIES FOR THE SOLARTOGETHER**  
8 **PROGRAM (VALLE REBUTTAL AT 17-18). HOW DO YOU RESPOND?**

9 A. Mr. Valle has not introduced any valid new reasons for not conducting a Request  
10 for Proposals (“RFP”) for PPAs or other third-party arrangements for at least a portion  
11 of the Phase 1 SolarTogether generation facilities. As I addressed at length in my direct  
12 testimony, FPL should have performed such an RFP to provide for, at a minimum, a  
13 portion of the SolarTogether generation facilities; therefore, an important check on the  
14 costs of the Phase 1 SolarTogether projects was lost as a result of an RFP not being  
15 performed (Dauphinais Direct at 22-28).

16  
17 **Q. FPL WITNESS ENJAMIO CLAIMS THE GREATER WEIGHTING YOU**  
18 **PLACE ON LOW AND MEDIUM PRICING ASSUMPTIONS FOR NATURAL**  
19 **GAS AND CO2 EMISSIONS AND YOUR CONSIDERATION OF THE CPVRR**  
20 **PAYBACK TIME ARE IMPROPER AND SHORTSIGHTED (ENJAMIO**  
21 **REBUTTAL AT 9-10). MR. DEASON ALSO RAISES CONCERNS WITH**  
22 **YOUR GREATER WEIGHTING ON LOW AND MEDIUM PRICING**  
23 **ASSUMPTIONS FOR NATURAL GAS AND CO2 EMISSIONS (DEASON**  
24 **REBUTTAL AT 18-20). HOW DO YOU RESPOND?**

1 A. Mr. Enjamio is essentially claiming that I gave no consideration to the high  
2 pricing assumptions for natural gas and CO<sub>2</sub> emissions (Enjamio Rebuttal at 9-10.) He  
3 also suggests the need to take all nine sensitivity cases into consideration (*Id.*) Mr.  
4 Deason also suggests I am cherry picking and should give equal weighting to all  
5 scenarios (Deason Rebuttal at 18-20).

6 As is clear in my direct testimony, I did consider all nine sensitivity scenarios;  
7 and I plainly presented all nine scenarios in my direct testimony. (Dauphinais Direct at  
8 16-19.) What I said in my direct testimony is that greater weight should be placed on  
9 the low and medium price assumption cases (given the projected abundance of natural  
10 gas and the current lack of carbon emission regulation), not that no weight should be  
11 placed on FPL's high price assumption cases (Dauphinais Direct at 17-18.) Also, it is  
12 important to note that FPL defined each of the nine scenarios. As a result, the nine  
13 scenarios are not necessarily unbiased such that they should all be given identical  
14 weighting. Furthermore, I find it highly ironic for FPL to emphasize the need to  
15 consider all nine sensitivity cases given that FPL only presented a single sensitivity case,  
16 its mid-level fuel and mid-level emission price case, in its Petition and direct testimony.

17 With respect to my consideration of CPVRR payback time, it was not without  
18 giving proper consideration to the 30-year book life net CPVRR results as well, because  
19 both are important. With that said, CPVRR payback is still an important consideration  
20 with respect to the degree of risk associated with a proposed utility investment,  
21 especially for proposed generation facility additions that are not needed to provide  
22 reliable electric service at the lowest reasonable cost.

1 **Q. MR. ENJAMIO ALSO CLAIMS THAT INTRODUCING CONSIDERATION OF**  
2 **CPVRR PAYBACK TIME INTO THE RESOURCE PLANNING PROCESS**  
3 **WOULD UPEND THE WAY IN WHICH UTILITIES PLAN FOR THE LONG-**  
4 **TERM RELIABILITY OF THEIR SYSTEMS AND WOULD POTENTIALLY**  
5 **RESULT IN CUSTOMERS FORFEITING MILLIONS, OR EVEN BILLIONS,**  
6 **OF DOLLARS IN SYSTEM SAVINGS. (ENJAMIO REBUTTAL AT 14-15.)**  
7 **HOW DO YOU RESPOND?**

8 A. Consideration of CPVRR payback time will not upend the resource planning  
9 process or cause customers to forfeit millions or billions in system savings. First, as I  
10 have detailed earlier in this testimony, FPL has not shown the proposed SolarTogether  
11 generation facilities are needed to provide reliable electric service at the lowest  
12 reasonable cost. Instead, the subject facilities are an acceleration of the deployment of  
13 the solar generation facilities FPL is projecting it will pursue in the future. As such, the  
14 time to CPVRR payback is of great importance, as the question of whether to pursue  
15 these projects is purely an economic matter. Furthermore, it is important to remember  
16 that it is customers who will be taking on the economic risk associated with the projects  
17 -- not FPL. FPL will receive its recovery of, *and return on*, this generation investment  
18 regardless of whether the economics for the proposed facilities “pans out” for  
19 customers.

20 In addition, even if the SolarTogether generation projects were needed to  
21 provide reliable electric service at the lowest reasonable cost, CPVRR payback is still  
22 relevant to consider in order to examine the degree to which a resource alternative is a  
23 “Hail Mary Play.” By a “Hail Mary Play” alternative, I mean an alternative that requires  
24 a very large capital investment, that does not provide a CPVRR payback for customers

1 until the last few years of its book life, and that depends on certain assumptions lining  
2 up nearly perfectly in order to provide that payback prior to the end of the alternative's  
3 book life. Given that uncertainty increases as a forecast horizon is extended, "Hail Mary  
4 Play" alternatives, and those alternatives that approach being "Hail Mary Play"  
5 alternatives, have a high risk of not ultimately providing a net CPVRR benefit to  
6 customers over their book life. As a result, customers are not forfeiting millions or  
7 billions of dollars of system savings by their utility not pursuing such alternatives,  
8 because there is a high risk that the forecasted net CPVRR savings from those  
9 alternatives *will not actually materialize* over their book life, and those alternatives will  
10 instead leave customers with a net CPVRR cost.

11  
12 **Q. MR. DEASON INDICATES IT IS IMPORTANT TO CONSIDER THE RISK OF**  
13 **FUEL PRICE VOLATILITY AND POTENTIAL WAYS TO MITIGATE THAT**  
14 **RISK. (DEASON REBUTTAL AT 23-24.) HOW DO YOU RESPOND?**

15 A. I agree those are important considerations; however, it is important to note that  
16 FPL made no effort in either its original case or its new case to: (i) reasonably quantify  
17 the risk exposure that currently exists, (ii) reasonably quantify the degree to which the  
18 SolarTogether generation facilities would reduce that risk exposure, or (iii) reasonably  
19 quantify whether pursuing the SolarTogether generation projects would be the lowest  
20 reasonable cost alternative to address that exposure. Furthermore, as with any  
21 generation project proposed by a utility that is not necessary to provide reliable electric  
22 service at the lowest reasonable cost, great scrutiny should be given to proposals to  
23 reduce the exposure to fuel volatility through generation resource additions. This is  
24 because utilities are inherently biased toward such proposals since such generation

1 additions allow utilities to convert customer fuel expense exposure into additional return  
2 on investment for the utility's shareholders.

3  
4 **Q. FPL WITNESS HUBER CLAIMS YOUR ANALYSIS OF THE**  
5 **SOLARTOGETHER PROGRAM AND YOUR CONCLUSIONS REGARDING**  
6 **SUBSIDIES FOCUSED ONLY ON THOSE YEARS IN WHICH THE ANNUAL**  
7 **REVENUE REQUIREMENT IS GREATER THAN SUBSCRIPTION**  
8 **REVENUES RECEIVED FROM PARTICIPATING CUSTOMERS. (HUBER**  
9 **REBUTTAL AT 8.) HOW DO YOU RESPOND?**

10 A. First, let me note in general that Mr. Huber, when citing my direct testimony in  
11 his rebuttal testimony, in no case referenced any specific page in my direct testimony.  
12 As a result, it is unclear in a number of cases exactly what he is referring to in my direct  
13 testimony.

14 With specific respect to his claim, as can be plainly seen from pages 36 through  
15 40 of my direct testimony, I considered the SolarTogether Program over its entire life  
16 when considering whether Non-Participating Customers are subsidizing Participating  
17 Customers, not just the period prior to the forecasted CPVRR payback for Participating  
18 and Non-Participating Customers. Thus, Mr. Huber's claim is groundless.

19  
20 **VII. CONCLUSIONS AND RECOMMENDATIONS**

21 **Q. PLEASE SUMMARIZE YOUR CONCLUSIONS AND RECOMMENDATIONS.**

22 A. I conclude the following:

- 23 • Despite the claims in FPL's rebuttal testimony, FPL has failed to reasonably  
24 demonstrate that the solar generation facilities for its proposed SolarTogether  
25 Program, even with the modifications presented in the new case presented in

1 FPL's rebuttal testimony and in Joint Movants' Exhibit A, are needed to provide  
2 reliable electric service at the lowest reasonable cost; and

- 3
- 4 • Despite the claims in FPL's rebuttal testimony, FPL has failed to reasonably  
5 demonstrate that, even with the modifications presented in the new case  
6 contained in FPL's rebuttal testimony and in Joint Movants' Exhibit A, Non-  
7 Participating Customers are not any worse off economically under the proposed  
8 SolarTogether Program than they would be if the proposed SolarTogether  
9 Program was not pursued. Under the SolarTogether Program, I estimate Non-  
10 Participating Customers would, through the money they are required to pay FPL,  
11 be required to pay a subsidy of approximately \$133 million on a CPVRR basis  
12 to support Participating Customers' use of the SolarTogether Program. As a  
13 result, Non-Participating Customers would be substantially worse off under the  
14 SolarTogether Program than they would be if the SolarTogether Program was  
15 not in place.

16 For the above reasons, I recommend that the Commission deny FPL's Petition for its  
17 SolarTogether Program under either the original case or the new case filings, including  
18 any approval related to the increased rate base sought by FPL in this proceeding for its  
19 proposed Phase 1 SolarTogether solar generation facilities.

20

21 **Q. DOES THIS CONCLUDE YOUR SUPPLEMENTAL TESTIMONY?**

22 **A.** Yes, it does.

1 MR. REHWINKEL: With that, Mr. Chairman, Mr.  
2 Dauphinais is available for cross-examination.

3 CHAIRMAN CLARK: Thank you very much. All  
4 right. We'll start with FPL.

5 MS. MONCADA: No questions for Mr. Dauphinais.

6 CHAIRMAN CLARK: Okay. Just take them in  
7 order here. SACE.

8 MR. CAVROS: We have no questions.

9 CHAIRMAN CLARK: Vote Solar.

10 MS. OTTENWELLER: No questions, Mr. Chairman.

11 CHAIRMAN CLARK: Walmart.

12 MS. EATON: No questions.

13 CHAIRMAN CLARK: Staff.

14 MR. TRIERWEILER: No questions.

15 CHAIRMAN CLARK: Commissioners. Commission  
16 Fay.

17 COMMISSIONER FAY: I didn't want you to get  
18 off that easy, Mr. Dauphinais. I think I was the  
19 last one there. If you could do me a favor, I  
20 think it's in your supplemental direct, let's turn  
21 to that page real quick -- page 31 is what I'm  
22 looking at. So it starts on line 20. I think it  
23 goes all the way over to the next page. Could you  
24 read that for me?

25 THE WITNESS: So I just want to make sure I'm

1 in the same place, Commissioner Fay. So we're on  
2 page 31 and you want me to start reading from line  
3 20 and you want me to finish that through the  
4 conclusion of that paragraph at the top of the next  
5 page?

6 COMMISSIONER FAY: Correct.

7 THE WITNESS: Great. I'll be glad to do so.

8 Furthermore, as with any generation project  
9 proposed by utility that is not necessary to  
10 provide reliable electric service at the lowest  
11 reasonable cost, great scrutiny should be given to  
12 proposals to reduce the exposure to fuel volatility  
13 to generation resource additions. This is because  
14 utilities are inherently biased towards such  
15 proposals since such generation additions allow  
16 utilities to convert customer fuel expense exposure  
17 into additional return on investment for utility's  
18 shareholders.

19 COMMISSIONER FAY: So my question on this  
20 whole provision is, it sounds -- I'm trying to  
21 distinguish if you're saying that the need issue is  
22 something that creates the higher scrutiny or if  
23 it's the fact that it's solar generation. So, in  
24 other words, you have two components of that answer  
25 and I'm not sure which one -- I think you're

1 speaking to the need, but I'm just making sure  
2 you're not saying the Commission should apply a  
3 higher level of scrutiny for a solar project over a  
4 fuel-driven project. Does that make sense?

5 THE WITNESS: I think I understand and if I  
6 don't correctly -- don't really satisfy what you're  
7 trying to get at, I'd ask you to ask me a follow-up  
8 question. So I'm going to try my best with this.

9 COMMISSIONER FAY: Sure. I'm the only one  
10 asking questions, so I'll consider it. Thank you.

11 THE WITNESS: All right. So one of the  
12 characteristics of the solar projects is that they  
13 can help to reduce the risk of a fuel volatility  
14 and that's because they don't have any fuel cost.  
15 They're not -- the actual solar facilities, their  
16 cost to produce energy is essentially almost zero.  
17 There's some real very small variable operation  
18 maintenance costs that are a function of energy  
19 production, but they're miniscule for solar  
20 generation facilities. So versus something that is  
21 burning fuel, you don't have, you know, you don't  
22 have the risk of fuel risk there.

23 Now, the issue with investing in any resource,  
24 whether it be solar or some other resource, that  
25 reduces exposure to fuel volatility, are the risk

1 of fuel volatility costs in the fuel clause, is  
2 that what we do is we are looking at competing  
3 alternatives. One of those alternatives is to pay  
4 higher fuel costs and one of those alternatives is  
5 to make an investment into a generation resource.  
6 On the fuel cost side, the company just gets to  
7 recover its cost. It doesn't get to earn a return  
8 on that because it didn't make an investment to  
9 incur, you know, that cost it just simply incurred  
10 and they get to recover that cost.

11 On the investment side, utility not only gets  
12 to recover the capital cost, but they also get to  
13 recover and also earn a return on that investment,  
14 the return on equity. And so the challenge is when  
15 we're looking at investments to reduce fuel  
16 volatility is that utilities are going to be  
17 naturally inclined to pursue investments to reduce  
18 fuel volatility because they'll basically take a  
19 cost stream right now where they don't earn a  
20 return on investment and convert it into a cost  
21 stream where they will earn a return on investment,  
22 which is obviously helpful for their shareholders.

23 COMMISSIONER FAY: So I think what you're  
24 saying is you take it into consideration, but it  
25 doesn't necessarily trigger a higher level of

1 scrutiny. Because, for example, we have solar  
2 here, but it could be anything that would reduce  
3 the volatility of the fuel cost and potentially be  
4 cleaner energy. That in itself isn't a reason to  
5 apply higher scrutiny.

6 THE WITNESS: It is one of the things -- if  
7 fuel volatility is one of the reasons being cited,  
8 it's a reason to apply greater scrutiny. And it  
9 could be a solar project; but the same issue would  
10 exist, for example, if coal fire generation was  
11 still really on the table, which, of course, it's  
12 not, or nuclear generation. It would be the same  
13 issue is that there -- it addresses fuel  
14 volatility, but involves substantial capital  
15 investment. So whenever there's significant  
16 capital investment to produce fuel volatility,  
17 extra scrutiny is called for because of the  
18 utility's natural inclination to favor alternatives  
19 that would have them make larger capital  
20 investments, which would allow them to get a larger  
21 return on investment for their -- for their  
22 shareholders.

23 COMMISSIONER FAY: Okay. Thank you. Mr.  
24 Chairman, one more.

25 CHAIRMAN CLARK: Sure.

1                   COMMISSIONER FAY: Thank you. We talked a  
2                   little bit about the nine different scenarios and  
3                   in your testimony there's a little bit of  
4                   discussion about the weight of those scenarios and  
5                   which would apply more or less. You do address in  
6                   your testimony that you give consideration to all  
7                   nine scenarios, but I'm just trying to figure out  
8                   based on that testimony what sort of weight -- I  
9                   can't quite figure out when you look at the other  
10                  scenarios what consideration has been given to  
11                  them.

12                 THE WITNESS: I would say I gave them limited  
13                 weight. There are certainly possible outcomes.  
14                 However, based on the current situation where we  
15                 don't currently have federal regulation of carbon  
16                 emissions, and we may in the future at some point  
17                 at some level, we don't know what that is right  
18                 now, but right now we do not have any, and that  
19                 natural gas prices have been at a sustained low  
20                 level for some time, and as this proceeding has  
21                 evolved since March have continued to fall in the  
22                 market, the forward prices for natural gas, there's  
23                 no indication that we're really more likely to see  
24                 higher prices in natural gas or carbon emission  
25                 cost on the high end in the assumptions that FPL

1 used. That doesn't appear as likely as essentially  
2 a scenario where we have either the mid/mid  
3 scenario, mid fuel and mid carbon emission cost, or  
4 we have anywhere from there down to the low carbon  
5 emission and low fuel cost. In my opinion, those  
6 deserve much more weight than any of the cases that  
7 use high natural gas prices or high carbon emission  
8 cost. Again, based on what we know right now  
9 today. It doesn't mean the other outcomes are not  
10 possible, but they don't deserve the same weight,  
11 in my opinion.

12 COMMISSIONER FAY: And if all those  
13 calculations created a savings, like if all nine  
14 scenarios created numbers that were a savings,  
15 could -- would that be deemed cost-effective?

16 THE WITNESS: It's a little bit more -- I  
17 think we have to be a little bit more careful with  
18 that. So cost-effective just means when I'm  
19 looking at two alternatives, one is, you know, when  
20 we consider all the costs -- all the costs and  
21 benefits together, we look at the net cost  
22 situation, the more cost-effective solution, or  
23 cost-effective solution is one that's lower cost  
24 than the alternative you're looking at. That  
25 doesn't mean it's the most cost-effective solution.

1           You would need really a more complete set.

2           So when we look at a scenario where all nine  
3           of scenarios, let's say, were showing a net  
4           benefit, then I would say yes. Of the two  
5           alternatives you compare, two alternative  
6           portfolios of resource issue compared, one is more  
7           cost-effective than the other and it is under all  
8           of the scenarios looked at. That doesn't mean  
9           there's some -- there is some extreme cases beyond  
10          the box-of-nine scenarios -- well, that's not true,  
11          but I would say that for the nine scenarios that,  
12          in fact, you know, that one alternative is more  
13          cost-effective than the one it was compared to, but  
14          it doesn't mean that the scenario that's  
15          cost-effective versus the other alternative is the  
16          most-cost effective solution for ratepayers, and  
17          it's important that the Commission look at the most  
18          cost-effective solution for ratepayers because that  
19          is critical towards providing reliable electric  
20          service at lowest reasonable cost.

21                 COMMISSIONER FAY: I appreciate that yes. And  
22                 I'm not sure if you're a lawyer or not, that was a  
23                 very long answer to get there, but I do appreciate  
24                 the input. Thank you. Mr. Chairman, that's all I  
25                 have.

1 CHAIRMAN CLARK: Thank you, Mr. Fay.

2 Mr. Rehwinkel.

3 MR. REHWINKEL: Of course --

4 CHAIRMAN CLARK: I'm sorry. I'm sorry. Mr.  
5 Polmann.

6 COMMISSIONER POLMANN: I had no questions  
7 until Commissioner Fay had a question. I can't let  
8 you be the only.

9 Mr. Dauphinais -- sorry. Commissioner Fay  
10 raised the point. In your answer it brought to  
11 mind something I wanted to follow up on. So in  
12 looking at the various scenarios in the context of  
13 what's become referred to, thank you Mr. Moyle, as  
14 the nine-box concept in the base case, which was  
15 the mid fuel/mid environmental cost, I think what  
16 was just discussed was a concept of giving more or  
17 less weight to some of those scenarios. Would you  
18 perhaps consider the notion of weighting or giving  
19 more or less weight -- is that analogous to a  
20 likelihood concept that one is more likely than  
21 another? Would that be another way of saying --  
22 giving weight?

23 THE WITNESS: Giving more weight is saying  
24 that the party that's giving the weight means they  
25 believe that the scenarios they're giving more

1 weight to are more likely scenarios.

2 COMMISSIONER POLMANN: So following beyond the  
3 likelihood, is it fair to think of that in terms of  
4 a probability recognizing that probability then  
5 becomes more of a numeric type thing?

6 THE WITNESS: Likelihood can become  
7 probability. Probability is more precise, I guess  
8 I would say. It tends -- it becomes probability  
9 when we think we can precisely quantify it and  
10 there's a way to quantify it.

11 COMMISSIONER POLMANN: I believe you were here  
12 earlier and heard one of the FPL witnesses explain  
13 that they don't apply any probabilities to those  
14 boxes. So do you feel that giving weight or  
15 likelihood or the probability should necessarily be  
16 part of that analysis? Is that a deficiency that  
17 you feel strongly about?

18 THE WITNESS: I do feel that judgment has to  
19 be used at looking at the collection of scenarios  
20 by taking a look at the current situation. You  
21 know, ICF essentially did that the way they  
22 developed their carbon forecast, for example,  
23 they're making judgment calls. Might not  
24 necessarily agree with their judgment calls, but  
25 they're making judgment calls. I'm making a

1 judgment call on the box of nine, as well, as  
2 basically saying that four of those scenarios I  
3 think are more likely than the other scenarios,  
4 significantly more likely based on, you know, what  
5 I see in the industry with regard to carbon  
6 emission regulation right now and natural gas  
7 prices. Dr. Sim is choosing -- he feels that one  
8 cannot be made and he's choosing not to give -- put  
9 any more weight on one scenario than another.

10 COMMISSIONER POLMANN: Would one way of  
11 looking at that be perhaps a professional analysis  
12 and a professional judgment, and then another way  
13 perhaps being a policy, more of a, you know, just a  
14 global public interest policy or programmatic  
15 planning, recognizing that you can't really assign  
16 probability, you don't have the data. You can't --  
17 you know, there's a lot of uncertainty that you  
18 just can't quantify. So is there a judgment versus  
19 a sort of a planning and policy perspective? Is  
20 really my --

21 THE WITNESS: I think -- I think I understand  
22 what you're trying to ask, and if I don't, you  
23 know, feel free to follow up, of course. Somebody  
24 like ICF or myself or even Dr. Sim, you know, we  
25 might be making -- I'm making a professional

1 judgment call, what I think is more likely and  
2 should therefore get more weight. I think ICF is  
3 sort of doing that, their own analysis on carbon  
4 emissions, the way they develop their carbon  
5 emission forecast. That's one role. Then there's  
6 another role as might be to the Commission or  
7 anybody that might have some authority to set  
8 policy. Then they have to consider what they, you  
9 know, within their jurisdiction what they can and  
10 cannot do and how they should take all the facts  
11 that have been presented to them and the expert  
12 opinions that are provided to them and make a  
13 decision on that. I don't know if that's an answer  
14 to your question or not, though.

15 COMMISSIONER POLMANN: Well, I think that --  
16 you shed some light and helped the discussion. So  
17 thank you, sir. I appreciate your answers.

18 THE WITNESS: You're very welcome.

19 COMMISSIONER POLMANN: Thank you, Mr.  
20 Chairman. That's all I have.

21 CHAIRMAN CLARK: All right. Mr. Rehwinkel,  
22 redirect.

23 MR. REHWINKEL: Just one question, Mr.  
24 Chairman.

25 EXAMINATION

1 BY MR. REHWINKEL:

2 Q Mr. Dauphinais, with respect to the last  
3 question that Commissioner Polmann asked you, is it the  
4 Commission's ultimate responsibility to make regulatory  
5 judgments about the likelihood of outcomes in the nine  
6 box or is it FPL's call? Who's, in your experience  
7 testifying around the country, who has that ultimate  
8 responsibility?

9 A That judgment call goes to the Commission.

10 MR. REHWINKEL: Thank you. No further  
11 questions. And I would move Mr. Dauphinais'  
12 exhibits identified as 12 through 23 into the  
13 record.

14 CHAIRMAN CLARK: Okay. So ordered.

15 (Whereupon, Exhibit Nos. 12 through 23 were  
16 entered into evidence.)

17 MR. REHWINKEL: Thank you. May Mr. Dauphinais  
18 be excused?

19 CHAIRMAN CLARK: He may. Thank you.

20 All right. Next witness up, stipulated to,  
21 Mr. Matt Cox, Vote Solar witness. Ms. Ottenweller.

22 MS. OTTENWELLER: Thank you, Mr. Chairman. At  
23 this time I would ask that Vote Solar witness Dr.  
24 Cox's prefiled direct testimony and his two  
25 exhibits be entered into the record as though read.

1                   CHAIRMAN CLARK:   So ordered.

2                   (Whereupon, Witness Cox's prefiled direct  
3           testimony was inserted into the record as though  
4           read.)

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**DIRECT TESTIMONY**

**OF**

**MATT COX, PhD**

**ON BEHALF OF VOTE SOLAR**

**BEFORE THE**

**FLORIDA PUBLIC SERVICE COMMISSION**

**20190061-EI**

**I. INTRODUCTION AND QUALIFICATIONS**

**Q. PLEASE STATE YOUR NAME, TITLE AND BUSINESS ADDRESS.**

A. My name is Matt Cox. I am the Chief Executive Officer at the Greenlink Group Inc., located at 695 Pylant Street NE, Suite 110, Atlanta, GA 30306.

**Q. PLEASE DESCRIBE THE GREENLINK GROUP.**

A. The Greenlink Group (Greenlink) is an energy technology, research and consulting firm that specializes in energy policy analysis. Greenlink provides evidence and expert analysis needed to evaluate pressing issues in energy markets, especially those concerning the evolution of the electric grid. We focus on the integration and alignment of centralized and distributed energy resources, energy efficiency in buildings and manufacturing, demand side management (DSM), and modernizing these approaches for future applications. Greenlink has engaged in energy policy arenas from the local to the international scale, working

1 with public and private sector clients to design smarter data-driven policies and  
2 strategies.

3 **Q. PLEASE DESCRIBE YOUR PROFESSIONAL AND EDUCATIONAL**  
4 **EXPERIENCE.**

5 A. I am the co-founder and current Chief Executive Officer for Greenlink, where I  
6 have led our team's research work for the past five years. A comprehensive  
7 review of my experience and qualifications is described in my *curriculum vitae*  
8 attached as Exhibit MC-1. Generally, we focus on energy issues at the city and  
9 state level, advising clients on policies and programs to maximize energy savings  
10 and economic efficiency. Frequently, this involves the utilization of Greenlink's  
11 machine learning modeling tools and our application of other advanced  
12 technology to the energy policy landscape.

13 I hold a PhD in Energy Policy from the Georgia Institute of Technology, with a  
14 minor in sustainable development. I was a National Science Foundation Fellow in  
15 Nanostructured Energy Storage and Conversion, as well as a founding member of  
16 the Climate and Energy Policy Laboratory at Georgia Tech. I also hold a Master's  
17 of Science degree in Public Policy in Energy and Environmental Policy, with a  
18 focus on economic development from Georgia Tech. My Bachelor of Science is  
19 from the University of Dayton. I have published over 60 research studies,  
20 primarily on energy efficiency and renewable energy policy.

21 **Q. PLEASE DESCRIBE YOUR PROFESSIONAL EXPERIENCE AS IT**  
22 **RELATES TO CLEAN ENERGY POLICIES AND PROGRAMS.**

1 A. I have researched, designed, drafted, implemented, and evaluated renewable  
2 energy and energy efficiency policies across the United States. I have assisted  
3 cities, states, public service commissions, U.S. Department of Energy and its  
4 National Laboratories, the Energy Information Administration, as well as  
5 nonprofits and NGOs, in crafting more effective energy policy proposals and best-  
6 in-class program designs. Additionally, I have testified before state legislatures,  
7 public service commissions, and city councils on these topics.

8 **Q. ON WHOSE BEHALF ARE YOU APPEARING?**

9 A. I am appearing on behalf of Vote Solar.

10 **Q. ARE YOU SPONSORING ANY EXHIBITS?**

11 A. Yes. I am sponsoring the following exhibits:

- 12 ● Exhibit MC-1, which is a summary of my experience and qualifications.
- 13 ● Exhibit MC-2, which is a map of customer electricity burdens in FPL's  
14 service territory.

15 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

16 A. The purpose of my testimony is to assess the strengths and shortcomings of the  
17 SolarTogether program as proposed and to suggest improvements to the design of  
18 the program for all customers.

19 **Q. PLEASE SUMMARIZE YOUR TESTIMONY.**

1 A. SolarTogether is a promising program that, if approved, will likely be the largest  
2 utility-sponsored solar subscription offering in the nation.<sup>1</sup> The benefits from  
3 expanded solar generation for the State of Florida are many; more solar power can  
4 reduce the cost of electricity while improving public health and the economy. In  
5 fact, solar is now the cheapest generating source available to FPL.<sup>2</sup> The  
6 SolarTogether program is also in a position to set the standard for voluntary clean  
7 energy offerings by Florida electric utilities for the next decade or longer. As  
8 such, it raises significant public policy questions that bear careful consideration,  
9 especially regarding access and affordability for those customers who currently  
10 lack clean energy options.

11 It is clear that the addition of these solar resources comes with real and  
12 quantifiable benefits – in the form of cleaner energy, cleaner air, reduced  
13 greenhouse gas emissions, and financial savings. The question at issue is how  
14 those benefits should be apportioned between FPL, its shareholders, subscribing  
15 customers, and customers as a whole; and fundamentally, whether the program is  
16 essentially designed to benefit FPL first – and then to unduly favor certain  
17 customers over others – with the result of shutting out those customers who are  
18 most in need of bill relief from solar savings. The current design would primarily  
19 benefit FPL shareholders and those customers who can wait for benefits to

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<sup>1</sup> Valle, Matthew. *Florida Power and Light Company, Direct Testimony of Matthew Valle*, Docket No. 20190061-El. July 29, 2019. *Before the Florida Public Service Commission*. At 5.

<sup>2</sup> Determined by using the NREL ATB levelized cost of energy with reported FPL fuel prices as applicable. NREL (National Renewable Energy Laboratory). 2019. *2019 Annual Technology Baseline*. Golden, CO: National Renewable Energy Laboratory. <https://atb.nrel.gov/electricity/2019>.

1 materialize over the course of years while excluding most other customers from  
2 accessing the financial benefits of increased solar deployment in the state.

3 I recommend that FPL take advantage of the savings opportunity that solar  
4 presents to its shareholders and all of its customers to deliver a fairer division of  
5 the benefits than is accomplished by the current program design. As it stands, a  
6 disproportionate share of the benefits are reserved for the shareholders, large  
7 commercial customers, and wealthier residential customers while leaving out the  
8 over 2 million FPL residential customers who suffer with higher-than-average  
9 energy burdens and the 1.4 million customers who live in energy poverty.<sup>3</sup> This  
10 unfair result, which would only serve to further exacerbate the significant  
11 disparities in energy burdens in Florida, is not in the public interest and unwisely  
12 squanders the opportunity that low-cost solar provides. With some relatively  
13 minor adjustments, the program can be a winning proposition for all stakeholders,  
14 demonstrate serious leadership and distinguish the program for more than just its  
15 sheer size.

16 To realize this potential, the Commission should require FPL to either set aside or  
17 expand its program by 100 MW of SolarTogether capacity to provide an  
18 opportunity for at least 20,000 of FPL's low-income customers to participate and

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<sup>3</sup> Energy burden is the percent of household income dedicated to paying energy bills. As used in this testimony, the term is referring to electricity burdens specifically. Household energy bills are “unaffordable” or a household is in “energy poverty” when electricity bills exceed 6% or total energy bills exceed 10% of household income. *See* Fisher Sheehan & Colton. 2013. “Home Energy Affordability Gap.” Available at [www.homeenergyaffordabilitygap.com/](http://www.homeenergyaffordabilitygap.com/). Heindl, P. 2015. “Dynamic Properties of Energy Affordability Measures.” *Energy Policy* 86: 123–32.; Hernández, D., and S. Bird. 2010. “Energy Burden and the Need for Integrated Low-Income Housing and Energy Policy.” *Poverty and Public Policy* 2 (4): 5–25.

1 reduce their annual electric bills by 10% or more. There are a number of options  
2 to achieve this level of savings, including providing the subscription benefit as a  
3 direct kWh offset, and by pairing the subscription with energy efficiency  
4 improvements. In all circumstances, the program should at a minimum  
5 incorporate a hold-harmless provision to empower low-income customers to  
6 participate in solar and produce a better future for their communities without fear  
7 that they may further stress their finances.

8 Finally, the Commission should require more thorough analysis from FPL for any  
9 unconstructed capacity within Phase 1 as well as any future phases of the  
10 SolarTogether program, including vetting power purchase agreements as a means  
11 of adding utility-scale solar capacity at a lower cost to ratepayers, consideration of  
12 a performance-based incentive to drive low-income participation, and requiring  
13 FPL to determine the optimal amount of utility-scale solar to add in order to  
14 maximize the benefit to ratepayers.

15 **III. WHETHER THE ADDITION OF 1,490 MW OF SOLAR IS IN THE**  
16 **PUBLIC INTEREST.**

17 **Q. WHAT SHOULD THE COMMISSION CONSIDER IN DETERMINING**  
18 **WHETHER TO APPROVE, MODIFY OR REJECT THE**  
19 **SOLARTOGETHER PROGRAM?**

20 **A.** There are two important questions for the Commission to weigh with respect to  
21 this program. First, is the addition of 1,490 megawatts of incremental solar  
22 resources to the rate base in the public interest? And second, are the rates offered  
23 under this program designed in a way that is fair and reasonable, without giving

1 any undue or unreasonable preference or disadvantage to any person?<sup>4</sup> I will  
2 address these questions in turn.

3 **Q. IS ADDING MORE SOLAR TO THE GRID, AS THIS PROGRAM**  
4 **WOULD DO, IN THE PUBLIC INTEREST?**

5 A. Yes. A number of analyses show that solar is the least-cost source of new  
6 generation in Florida. For example, two recent data products from the Department  
7 of Energy National Laboratories show that utility-scale solar is the least-cost  
8 resource on a levelized basis for the state (beating out natural gas) and that under  
9 optimized planning, 10 gigawatts of utility-scale and distributed solar would be  
10 added to Florida's grid for the next decade (notably, these would be the *only*  
11 capacity additions over the next decade as well) (See Figure 1, below).<sup>5, 6</sup> FPL's  
12 modeling in this filing demonstrating net benefits of \$139 million over the life of  
13 these solar additions, the most current Ten Year Site Plan and FPL's recently  
14 announced 30-by-30 proposal<sup>7</sup> all suggest that FPL also sees additional solar as a  
15 highly cost-effective option to meeting the future energy needs of its customers.

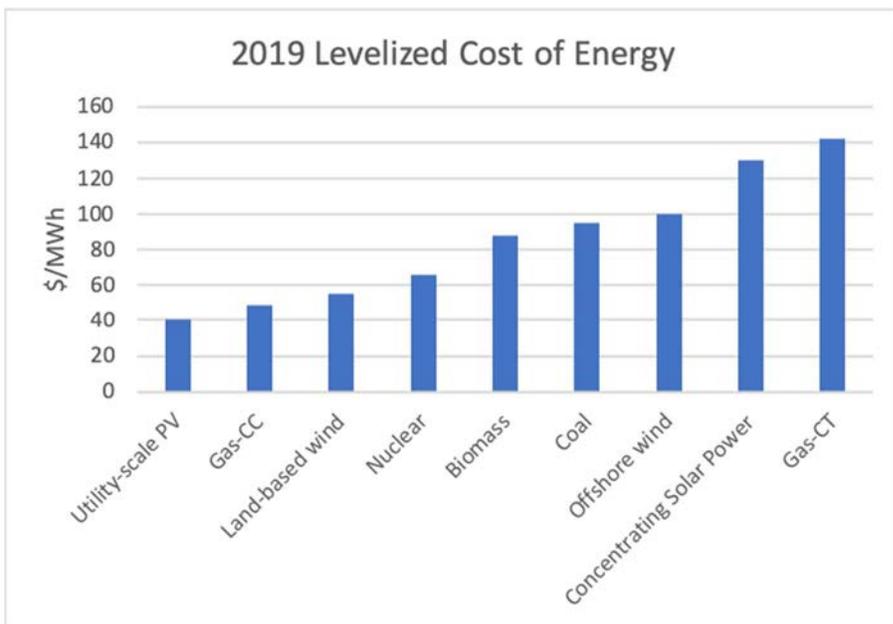
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<sup>4</sup> See Section 366.03, F.S.

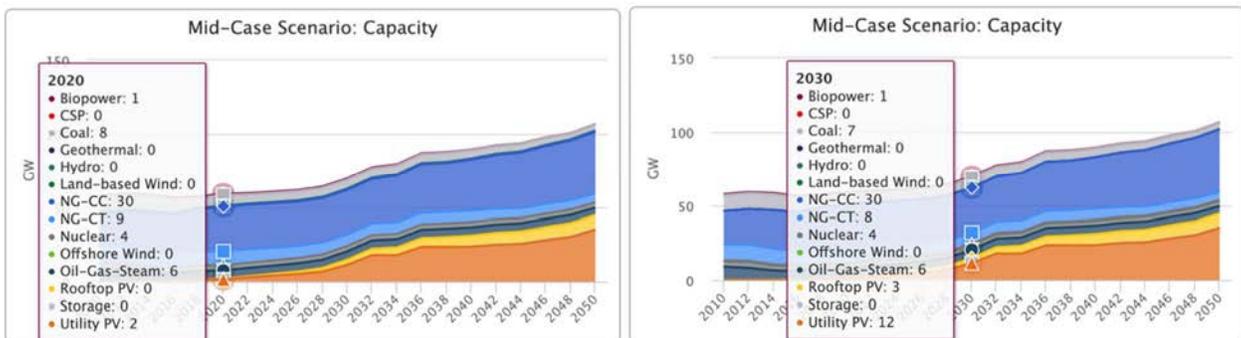
<sup>5</sup> NREL (National Renewable Energy Laboratory). 2019. *2019 Annual Technology Baseline*. Golden, CO: National Renewable Energy Laboratory. Available at <https://atb.nrel.gov/electricity/2019>.

<sup>6</sup> Cole, Wesley, Will Frazier, Paul Donohoo-Vallett, Trieu Mai, and Paritosh Das. 2018. *2018 Standard Scenarios Report: A U.S. Electricity Sector Outlook*, Golden, CO: National Renewable Energy Laboratory. NREL/TP-6A20-71913. Available at <https://www.nrel.gov/docs/fy19osti/71913.pdf>.

<sup>7</sup> <http://newsroom.fpl.com/2019-01-16-FPL-announces-groundbreaking-30-by-30-plan-to-install-more-than-30-million-solar-panels-by-2030-make-Florida-a-world-leader-in-solar-energy>.



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**Figure 1: Utility-scale PV as least-cost resource today and through the coming decade<sup>8</sup>**

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**Q. DOES FPL’S SOLARTOGETHER PROGRAM REFLECT THE MOST COST-EFFECTIVE METHOD OF ADDING SOLAR RESOURCES?**

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**A.** It’s unclear. The way utility-scale solar projects are added in this proposal could benefit from a more transparent and competitive bid process. All stakeholders have an interest in ensuring that the *most* cost-effective solar resources are being procured for the benefit of customers. It is surprising that FPL didn’t consider

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<sup>8</sup> *Ibid.*

1 PPA as part of this program because those are frequently the cheapest alternative  
2 in nearby jurisdictions.<sup>9</sup> It is also confusing that FPL doesn't appear to deem  
3 PPAs reliable enough for the purpose of this program,<sup>10</sup> given that its parent  
4 company NextEra competes for and develops solar through PPAs in many  
5 jurisdictions, including Florida.<sup>11, 12</sup>

6 Solar PPAs are sophisticated, long term contracts that include significant penalties  
7 for under-performance. In fact, PPAs often provide more safeguards for a utility's  
8 customers because PPAs insulate them from the risk of cost overruns and the cost  
9 of the utility's return on equity. Utilities across the nation make regular use of  
10 power purchase agreements to procure solar for their customers, which provide  
11 protections to the customers regarding cost overruns and underperformance. In  
12 short, there is no reason why a solar PPA couldn't be appropriate for a community  
13 solar program. Additionally, it's an open and important question whether other  
14 project ownership models like power purchase agreements would have provided  
15 an even greater benefit for FPL customers. Given this possibility, the Commission  
16 should require FPL to consider these market options now for any uncontracted

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<sup>9</sup> FERC Form 1 shows PPA prices from solar installations in other major southeastern utilities currently compensated at less than \$35/MWh.

<sup>10</sup> See FPL Response to OPC 3rd Int. #10, 11; FPL Response to OPC 6th Int. #29(c); FPL Response to Staff 2nd Int. #173.

<sup>11</sup> NextEra Energy. 2019. February 2019 Investor Presentation. Slide 34.  
[http://www.investor.nexteraenergy.com/~media/Files/N/NEE-IR/news-and-events/events-and-presentations/2019/02012019/February%202019%20Investor%20Presentation%20\\_VFinal2.pdf](http://www.investor.nexteraenergy.com/~media/Files/N/NEE-IR/news-and-events/events-and-presentations/2019/02012019/February%202019%20Investor%20Presentation%20_VFinal2.pdf).

<sup>12</sup> NextEra Energy. 2019. Earnings Conference Call Second Quarter 2019. Slide 25.  
<http://www.investor.nexteraenergy.com/~media/Files/N/NEE-IR/reports-and-fillings/quarterly-earnings/2019/q2/2Q%202019%20Slides%20vF.pdf>.

1 capacity in the current phase as well as in any future phases of SolarTogether that  
2 the Company may propose.

3 **Q. SHOULD THE SOLARTOGETHER PROGRAM BE LARGER?**

4 A. Yes. Given the modeling performed by both the national labs and FPL, in order  
5 to capture all of the cost-effective incremental solar available, it appears that  
6 FPL's total installed capacity of utility-scale solar projects should grow by at least  
7 a factor of five through 2030. FPL's current proposal suggests that this program is  
8 not being sized in order to achieve the goal of capturing all of the available solar  
9 savings, but rather to service the needs of a particular subset of its largest  
10 customers. Notably, the current size of the SolarTogether offering appears  
11 unlikely to meet even the narrow goal of meeting anticipated customer demand;  
12 the current allocation of capacity for large commercial and industrial customers  
13 will be entirely full when the tariff becomes available based on pre-registrations  
14 alone.

15 Further, the FPL filings in this proceeding project savings to the participants with  
16 spillover benefits reserved for the general customer base and a healthy return for  
17 shareholders, so it stands to reason that more solar would provide greater benefits  
18 to all customers and should be investigated. Fundamentally, FPL's analysis fails  
19 to answer the question of *how much more* solar could be brought onto to its  
20 system and result in net benefits. It is likely that expanding the capacity in this  
21 offering would provide larger benefits for all customers; the Commission should  
22 require FPL to evaluate the optimal quantity of solar capacity additions either as  
23 part of the SolarTogether docket or independently to determine what would be

1 best for its customers. FPL does not appear to have done so to date. It is clear that  
2 Florida has a largely uncaptured cost-effective solar resource that will be  
3 available throughout the next decade, some of which should be set aside to benefit  
4 all ratepayers and some of which should be set aside to meet the demands of  
5 specific customers through subscription programs as detailed in the remainder of  
6 my testimony.

7 **IV. WHETHER THE SOLARTOGETHER RATES ARE JUST AND**  
8 **REASONABLE.**

9 **Q. DOES THIS PROGRAM REPRESENT A CHANGE IN POLICY FROM**  
10 **FPL'S PRIOR SOLAR PROGRAMS?**

11 A. Yes. Although FPL states that this program does not represent a policy shift for  
12 the Company,<sup>13</sup> in fact these proposed solar additions are responding to a set of  
13 values expressed by its largest customers, who have clearly stated their preference  
14 to be served by 100% clean energy. This proposal allows a certain subset of FPL  
15 customers to choose their energy supply for the next several decades and to use  
16 the utility's rate-basing authority to achieve those ends.<sup>14</sup> Because of these  
17 distinctions, the Commission should conduct a thorough review of how the risks  
18 and benefits are allocated, including any barriers to participation that leave some  
19 customers without the same choices, freedoms, and opportunities available to  
20 others.

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<sup>13</sup> FPL Response to Staff 1st Int. #101.

<sup>14</sup> FPL Response to Staff 1st Int. #85 ("FPL is seeking inclusion of all FPL SolarTogether centers in rate base as they benefit all FPL customers..."); *see also* FPL Response to Staff 1st Int. #86.

1 **Q. ARE THE PROPOSED BENEFITS AND RISKS EVENLY SHARED BY**  
2 **THE STAKEHOLDERS?**

3 A. No. If FPL finances the SolarTogether capacity additions in the same proportion  
4 of debt-to-equity as recorded in their FERC Form 1 filings, shareholders could  
5 expect a \$245 million return on this investment over the lifetime of the project,  
6 which exceeds the total benefits to all participants AND non-participants in the  
7 program. Additionally, by using its rate-basing authority, FPL insulates itself and  
8 minimizes or eliminates financial risk to itself and its shareholders. This is a  
9 departure from some other utilities' approach to community solar, which typically  
10 is to ring-fence the program to ensure that all costs are borne by participants and  
11 require the utility to return to the Commission in the event of under-subscription  
12 for an additional prudence review prior to rate-basing.<sup>15</sup>

13 In contrast, FPL's program requires ratepayers to bear the program costs and  
14 risks, which they may recover from participants over time. All other stakeholders'  
15 benefits will only materialize if a series of FPL's assumptions and forecasts turn  
16 out to be correct, including fuel prices, generation and demand forecasts, carbon  
17 regulations, and any deviations from the "No SolarTogether" modeling pathway  
18 that FPL may make in the next several decades.<sup>16</sup>

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<sup>15</sup> See, e.g., *In Re: Petition for Approval of Cmty. Solar Pilot Program, by Gulf Power Co.*, 328 P.U.R.4th 108 (Mar. 21, 2016) (noting that subscription fees are designed to cover the full revenue requirements of the community solar facilities, and that Gulf Power's shareholders, rather than non-participating customers, are assuming the risk that costs will not be fully supported by the program structure).

<sup>16</sup> See FPL Response to OPC 5th Int. #25 (FPL noting the risks to the general body of customers due to the "uncertainty in the underlying Program assumptions").

1 **Q. DOES FPL'S CURRENT PROGRAM DESIGN STRIKE THE RIGHT**  
2 **BALANCE BETWEEN SHAREHOLDERS, SUBSCRIBERS AND NON-**  
3 **PARTICIPATING CUSTOMERS?**

4 A. No. The highest benefit for all ratepayers based on this research and analysis  
5 would be to rate-base the entire solar allocation - which FPL states that it will do  
6 for much of the program absent program approval - ensuring that all of the  
7 benefits are equally shared by all.<sup>17</sup> That being said, it appears quite likely that  
8 subscribers in the SolarTogether program will see bill relief over the long run  
9 based on current program design (while absorbing the majority of the  
10 performance risk), while the non-participant savings are shown by FPL to be  
11 sensitive to assumptions regarding both fuel prices and carbon regulation and do  
12 not materialize in some of the scenarios evaluated.<sup>18</sup> One thing is certain: in any  
13 long-term energy analysis, the model projections will not come to pass exactly as  
14 projected. The benefits of these solar additions to non-participants appear likely to  
15 be higher than projected by FPL due to conservative assumptions about the  
16 market value of the power when it is provided to the grid, potential CO<sub>2</sub>  
17 regulatory compliance costs, and benefits to the general ratepayers as a result of  
18 participant turnover.

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<sup>17</sup> In addressing the cost-effectiveness of incremental solar investments, I am not opining on whether FPL's process for seeking approval of 1,490 MW of incremental solar capacity through a tariff filing is appropriate. *See* FPL Response to Staff 1st Int. #139 (FPL notes that the "Commission is evaluating not only the design of the program but also the construction costs... Approval of FPL's petition would result in approval of FPL's construction of that capacity at the projected cost" meaning that no future prudence review would be required).

<sup>18</sup> *See* FPL Response to Staff 1st Int. #110.

1 In summary, FPL’s unique “benefit sharing” proposal, which allocates 80% of the  
2 net benefits to subscribers and 20% to non-participating customers, could offer a  
3 new innovative model of community solar.<sup>19</sup> However, FPL adds to the  
4 uncertainty that this program will benefit non-participants by utilizing a “No  
5 SolarTogether” alternative baseline that ignores all other solar investments that  
6 FPL plans to make over the life of the SolarTogether program - creating a flawed  
7 point of comparison.<sup>20</sup> This baseline removes all planned future incremental solar  
8 investments from FPL’s 2019 Ten Year Site Plan including the 2020 SoBRA  
9 projects that it is currently seeking approval for. Whether through more SoBRA  
10 additions, the 30x30 proposal to install 30 million solar panels by 2030, or some  
11 other mechanism, FPL is very likely to propose increased solar investments in the  
12 near future. In fact, FPL states that it plans to move forward with the initial 900  
13 MW of the SolarTogether program even if this tariff is not approved, and will  
14 develop this capacity for the benefit of all customers.<sup>21</sup> The end result is that FPL

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<sup>19</sup> See FPL Response to OPC 1st Int. #1; see also FPL Response to OPC 5th Int. #25 (FPL stating that the cost/benefit sharing between participants and non-participants is “a unique attribute not common in other community solar programs”).

<sup>20</sup> See FPL Response to Staff 1st Int. #76 (FPL removed all planned future incremental solar investments from its 2019 TYSP from its baseline prior to analyzing the cost effectiveness of this program); FPL Response to Staff 2nd Int. #191 (FPL stating that “If FPL’s SolarTogether Program is not approved, another resource plan with incremental solar will be more cost-effective to consumers than the No-SolarTogether Plan.”); FPL Response to Staff 1st Int. #102 (FPL’s No-SolarTogether baseline also excludes 2020 SoBRA projects).

<sup>21</sup> FPL states that it plans to move forward with the initial 900 MW of the SolarTogether program even if this tariff is not approved, and will develop this capacity for the benefit of all customers. See FPL Response to Staff 1st Int. #100 (“If the FPL SolarTogether Program is not approved, FPL will continue with the construction of Project 1, Project 2, and Project 3 described in its Petition.”); FPL Response to Staff 1st Int. #133 (Project 1 capacity is 223.5 MW; Project 2 capacity is 223.5 MW; and Project 3 capacity is 447 MW).

1           either intentionally or unintentionally clouds the key issue: not whether more  
2           solar is a net benefit, or that this is a choice between SolarTogether or no solar at  
3           all to serve customers over the next decade, but whether it is in the public interest  
4           to allocate *some* of the solar benefits now to a subset of customers with unique  
5           needs - and if so, how this can be done fairly and equitably.

6   **Q.    IS THERE VALUE IN SETTING ASIDE SOME INCREMENTAL SOLAR**  
7           **CAPACITY FOR CUSTOMERS WITH SPECIFIC CLEAN ENERGY**  
8           **NEEDS?**

9    A.    Absolutely. It appears that FPL is planning significant investments in solar  
10           resources over the next decade, including its 30x30 solar plan – much of which  
11           will serve the entire customer base.<sup>22</sup> At this time, there is immense value in  
12           allowing electric utilities to offer clean energy programs that are available to  
13           customers on a voluntary basis in order to meet the growing demand for clean  
14           energy. The general public and business interests have consistently shown support  
15           for expanding the use of clean energy and a desire to participate in a clean energy  
16           future.<sup>23</sup> One core principle of community solar is that it should expand access to  
17           a broader group of energy consumers than current solar policies and markets

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<sup>22</sup> See <http://newsroom.fpl.com/2019-01-16-FPL-announces-groundbreaking-30-by-30-plan-to-install-more-than-30-million-solar-panels-by-2030-make-Florida-a-world-leader-in-solar-energy>.

<sup>23</sup> Nearly 200 companies and over 100 municipalities (including 10 in Florida as of this writing) have 100% clean/renewable energy goals, which can be helped through offerings such as SolarTogether. <http://there100.org/companies>; <https://www.sierraclub.org/ready-for-100>.

1 allow.<sup>24</sup> This is consistent with Florida law, which expresses a clear preference for  
 2 promoting and encouraging customers’ voluntary clean energy investments.<sup>25</sup>

3 FPL claims that it designed its SolarTogether program to “ensure all customers  
 4 have an opportunity to participate.”<sup>26</sup> There are two customer segments that are  
 5 particularly unlikely to be served by current solar offerings: those large customers  
 6 with robust clean energy goals and significant demand that can’t be met by  
 7 rooftop systems alone; and those with financial (*i.e.* low income) or property  
 8 barriers (such as households living in multifamily dwellings or renters). These are  
 9 the customer segments that the Commission should focus on in evaluating  
 10 whether this program is in the public interest, and whether rate-basing a solar  
 11 subscription program is appropriate: does FPL’s program offer a *meaningful*  
 12 *expansion* in access to clean energy for those customers who need it, as is  
 13 encouraged by Florida law?<sup>27</sup>

14 **Q. WILL FPL’S PROGRAM EXPAND CLEAN ENERGY ACCESS?**

15 A. The proposed design of SolarTogether is not responsive to low-income  
 16 customers’ needs, and therefore will not lead to their participation. In contrast,  
 17 FPL’s program appears fairly well-designed when it comes to meeting the clean  
 18 energy needs of large, sophisticated corporate customers. The program has clearly

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<sup>24</sup> See Vote Solar and GRID Alternatives, *Low-Income Solar Policy Guide*, available at <https://www.lowincomesolar.org/best-practices/community-solar/>.

<sup>25</sup> Sections 366.91 and 366.92, F.S.

<sup>26</sup> FPL Response to Staff 1st Int. #64. See also FPL Response to Staff 1st Int. #65 (FPL’s stated goal to “provide all customer classes a fair and equitable opportunity to participate”).

<sup>27</sup> Sections 366.91 and 366.92, F.S. (encouraging renewable energy investment within the state).

1           been designed to meet the requests and demands of large commercial, industrial,  
2           and governmental customers, many of whom were consulted before the program  
3           was proposed, with an emphasis from FPL on acceptable payback periods and  
4           terms and conditions.<sup>28</sup> SolarTogether is also designed such that the majority of  
5           the capacity is reserved for these largest customers. In fact, the top ten subscribers  
6           who have pre-registered for the SolarTogether program will absorb 752 MW of  
7           the total capacity, or 50.5%, while claiming 40% of its expected net benefits.<sup>29</sup> As  
8           such, the program is likely to work well for many of these large customers.

9           Unfortunately, the same care and approach has not been taken with respect to  
10          residential customers, who are being offered similar terms, as if their needs and  
11          finances were the same as large retailers and municipalities. No similar outreach  
12          effort appears to have been done by FPL to test the program's value proposition  
13          or identify the needs and concerns of its residential customers. Additionally, pre-  
14          registration was only made available for larger customers. The interests of small  
15          business and residential customers don't seem to have been a major concern for  
16          FPL in program design or customer engagement.

17          But this program design creates the most significant concerns when it comes to  
18          the customers who are least able to afford higher rates. Low-income customers  
19          are particularly sensitive to costs, and will be less able to pay a higher electricity  
20          bill for many years. Based on experience from similar programs around the

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<sup>28</sup> See FPL Response to Staff 2nd Int. #166 (describing FPL's conversations about program design with large corporate customers at events such as the EEI National Key Accounts Workshops).

<sup>29</sup> FPL Response to Staff 1st Int. #123.

1 country, these customers are unlikely to register in any significant number without  
2 immediate bill savings and targeted education and outreach.<sup>30</sup> A first-come, first-  
3 served model that does not explicitly engage this customer segment leaves the  
4 most vulnerable customers of FPL bearing the greatest risk and the least potential  
5 benefits. These poor design decisions must be addressed to improve the  
6 distribution of risk and reward of SolarTogether.

7 **Q. WHAT ADDITIONAL PROTECTIONS WOULD NEED TO BE**  
8 **INCORPORATED FOR THE SPECIFIC NEEDS OF LOW-INCOME**  
9 **CUSTOMERS?**

10 A. High electric bills are a real and significant cost to many FPL customers. Paying a  
11 utility bill is the most common reason people use small-dollar loan products  
12 (payday loans, pawn loans, direct deposit advance loans, auto title loans, non-  
13 bank installment loans, etc.), and the U.S. Energy Information Administration  
14 reports that nearly a third of Americans skip a meal or medicine in order to pay a  
15 utility bill.<sup>31, 32</sup> In a number of communities, it's also been shown that evictions  
16 are highly correlated to the number of households living with a high energy

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<sup>30</sup> Smart Electric Power Alliance. 2018. "Community Solar Program Design Models," and Interstate Renewable Energy Council. 2016. "Shared Renewable Energy for Low- to Moderate-Income Consumers: Policy Guidelines and Model Provisions".

<sup>31</sup> Levy, Rob, and Joshua Sledge. 2012. A Complex Portrait: An Examination of Small-Dollar Credit Consumers. Center for Financial Services Innovation.

<sup>32</sup> U.S. Energy Information Administration. 2018. Residential Energy Consumption Survey. <https://www.eia.gov/consumption/residential/>.

1           burden.<sup>33</sup> With more than 1.4 million customers in energy poverty (defined as  
2           households paying more than 6% of their income on electricity expenses alone),  
3           FPL cannot afford to ignore this customer segment in any voluntary clean energy  
4           program offerings - and certainly not when proposing the largest program in the  
5           country (*See Exhibit MC-2, showing electricity burdens in FPL's service*  
6           territory).<sup>34</sup>

7           Low-income customers are especially price-sensitive, and experience with other  
8           community solar programs shows that their participation requires rates that are set  
9           at or below the retail rate.<sup>35</sup> Successful programs require the opportunity for these  
10          customers to save immediately,<sup>36</sup> something which could be available from the  
11          existing stream of benefits FPL evaluated and assigned to the program. These  
12          customers are also likely to require specialized marketing and outreach.<sup>37</sup> A hold-  
13          harmless provision that ensures low-income participants would not experience a  
14          bill increase as a result of joining SolarTogether and a shared-savings model to  
15          reduce energy burdens would be critical program components in ensuring a more  
16          equitable outcome as a result of SolarTogether. It is clear that FPL's one-size-fits-

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<sup>33</sup> Brown, M.A., A. Soni, M.V. Lapsa, K.A. Southworth, and M. Cox. (2019). "Low-Income Energy Affordability in an Era of Energy Abundance," *Progress in Energy*, forthcoming.

<sup>34</sup> Greenlink developed Exhibit MC-2 by analyzing microdata from the American Community Survey (2017) at the census tract level and applying appropriate weights to the data to produce statistically valid results for FPL's service territory.

<sup>35</sup> Smart Electric Power Alliance. 2018. "Community Solar Program Design Models."

<sup>36</sup> Interstate Renewable Energy Council. 2016. "Shared Renewable Energy for Low- to Moderate-Income Consumers: Policy Guidelines and Model Provisions."

<sup>37</sup> *Ibid.*

1 all approach to community solar will not result in a successful program for these  
2 customers.

3 **Q. WHAT ARE YOUR RECOMMENDATIONS FOR BETTER SERVING**  
4 **LOW INCOME CUSTOMERS WITH THIS PROGRAM?**

5 A. Well-designed community solar programs share certain themes: expanding access  
6 to a broader group of consumers than current policies and markets have allowed;  
7 compensating participants for the long-term value of the clean energy produced;  
8 allowing for flexibility in ownership and contract models to meet the preferences  
9 of potential participants and overcome their most frequent barriers; and  
10 representing additive clean energy capacity, rather than undermining existing  
11 efforts already underway. At least 11 states have taken steps to recognize the  
12 importance and challenges of serving low-income customers with community  
13 solar, and best-practices are available and should be put to use.<sup>38</sup>

14 Given the extensive shareholder benefits that are being provided with minimal  
15 risk, there is a need to align the incentives of SolarTogether with the interests of  
16 their customers. With the disproportionate risk placed on low-income customers  
17 under the current program design, a block of capacity reserved for low-income  
18 customers with specific consumer protections would vastly improve this offering.

19 Given the severe energy poverty experienced by many customers of FPL, I  
20 recommend reserving a meaningful amount of program capacity for low-income

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<sup>38</sup> See Vote Solar and GRID Alternatives, *Low-Income Solar Policy Guide*, available at <https://www.lowincomesolar.org/best-practices/community-solar/>.

1 customers to experience the financial benefits that will come from the addition of  
2 new solar as a part of the SolarTogether program. The Commission should require  
3 FPL to either set aside or expand its program by 100 MW of SolarTogether  
4 capacity to provide an opportunity for at least 20,000 of FPL's low-income  
5 customers to participate. These low-income customers will require some  
6 provision of benefits early in order to enable their participation and cannot wait  
7 years for benefits to materialize, which the current program design would require.  
8 The Commission should require FPL to provide meaningful bill relief that will  
9 reduce low income subscribers' annual electric bills by 10% or more.

10 There are a number of options to achieve this level of savings. One option to bring  
11 community solar savings and bill relief to low-income customers is to allow these  
12 subscribers to use their generation credits to offset their consumption on a one-  
13 for-one basis during the first several years of the program. This would provide the  
14 most comparable equivalent to FPL's net metering policy for these low-income  
15 subscribers. Other utilities in the Southeast provide this option for community  
16 solar participants even without income qualifications.<sup>39</sup> To date, low income  
17 consumers have been under-represented in rooftop solar adoption, meaning that  
18 many of these households have been unable to participate in the state's net  
19 metering policy.<sup>40</sup> This would provide these customers who have been unable to

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<sup>39</sup> See, e.g., Georgia Power's Community Solar program, available at <https://www.georgiapower.com/company/energy-industry/energy-sources/solar-energy/solar/community-solar.html>.

<sup>40</sup> Galen Barbose, Naïm Darghouth, Ben Hoen, and Ryan Wiser of Lawrence Berkeley National Lab. 2018. *Income Trends of Residential PV Adopters: An analysis of household-level income estimates*, available at

1           participate in net metering offerings to date with a real option for accessing this  
2           policy for the first time.<sup>41</sup> With this offering, FPL could maintain its proposed  
3           subscription charge and address energy poverty by reducing electricity bills of  
4           low income participants by 10% or more.

5           An alternative option would be to provide low-income customers with demand-  
6           side savings through energy efficiency simultaneously with the SolarTogether  
7           subscription. FPL could couple participation in SolarTogether with delivery of  
8           demand-side management offerings that will leverage additional savings to  
9           achieve a 10% bill reduction. Research from the National Laboratories has  
10          demonstrated a cost-effective opportunity for energy efficiency to offset more  
11          than 30% of the average Florida household's electricity consumption with a  
12          payback of under five years through smart thermostats, insulation, lighting and  
13          appliance upgrades.<sup>42</sup> Other utilities have deployed this approach of coupling  
14          community solar with efficiency offerings successfully for their low-income  
15          customers.<sup>43</sup>

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[http://eta-  
publications.lbl.gov/sites/default/files/income\\_trends\\_of\\_residential\\_pv\\_adopters\\_final\\_0.pdf](http://eta-publications.lbl.gov/sites/default/files/income_trends_of_residential_pv_adopters_final_0.pdf).

<sup>41</sup> See Fla. Admin. Code Ann. r. 25-6.065 (Florida's net metering regulation).

<sup>42</sup> Wilson, Eric J., Christensen, Craig B., Horowitz, Scott G., Robertson, Joseph J., & Maguire, Jeffrey B. *Energy Efficiency Potential in the U.S. Single-Family Housing Stock*. United States. doi:10.2172/1414819.

<sup>43</sup> Dominion Energy South Carolina's community solar program includes a carve-out for low income customers, which offers year-1 savings to these participants and also requires customers to complete a free Home Energy Check-Up offered by their utility prior to being eligible to enroll, providing access to the utility's other efficiency programs. See Community Solar Rider, <https://www.sceg.com/docs/librariesprovider5/electric-gas-rates/community-solar-rider-to-retail-rates.pdf?sfvrsn=2>; ORS Status Report,

1 In all circumstances, a hold-harmless provision should be incorporated to  
2 empower low-income customers to participate in SolarTogether without fear that  
3 they may further stress their finances by desiring to participate in producing a  
4 better future for their communities.

5 Finally, the Commission should consider and explore a performance-based  
6 incentive for low-income participation in future phases of the SolarTogether  
7 program. Doing so would help ensure that the interests of these customers are  
8 thoughtfully incorporated into the design of the program and benefit all  
9 stakeholders at the same time.

10 **Q. WOULDN'T A CARVE-OUT FOR LOW INCOME CUSTOMERS GIVE**  
11 **PREFERENCE TO THEM?**

12 A. Yes, appropriately so. This preference is neither undue nor unreasonable. The  
13 Commission is charged with considering the cost of providing service, as well as  
14 the rate history, value of service, and experience of the public utility.<sup>44</sup> It is the  
15 role of this Commission to consider the unique barriers and burdens that are borne  
16 by FPL's low-income customers in fixing rates for this program. Rather, failure to  
17 specifically consider whether low income and residential customers will be able  
18 to benefit from this offering would not serve the public interest.

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<https://ors.sc.gov/sites/default/files/Documents/Consumers/Solar/Leading%20Information/2019%20Report%20on%20Status%20of%20DER%20and%20NEM.pdf>.

<sup>44</sup> See Sections 366.06, F.S.

1 **Q. WHAT ARE YOUR RECOMMENDATIONS WITH RESPECT TO**  
2 **RESIDENTIAL AND SMALL COMMERCIAL SUBSCRIBERS?**

3 A. To ensure fair consideration of these customers' unique needs, I recommend that  
4 the Commission require a fixed capacity be set aside for residential and small  
5 commercial customers (rather than allowing FPL to reduce or eliminate this  
6 capacity based on initial response), in addition to requiring a specific carve-out  
7 for low-income customers.<sup>45</sup> FPL should be required to submit annual reports to  
8 the Commission on its progress in enrolling these customers in the program, and  
9 the Commission should order FPL to engage in a robust stakeholder process to  
10 improve program offerings and outreach efforts if the capacity remains unfilled  
11 after several years.

12 **Q. DOES SOLARTOGETHER REPRESENT AN ATTRACTIVE**  
13 **EQUIVALENT OPTION TO NET METERING FOR RESIDENTIAL**  
14 **CUSTOMERS?**

15 A. No, it does not. Although FPL frequently notes in its testimony and discovery  
16 responses that it proposes this program as an "alternative" to net metering,<sup>46</sup> this  
17 comparison is misleading and misinformed at best, and concerning, because the  
18 value propositions for FPL's customers are so much better under net metering.

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<sup>45</sup> See FPL Response to Staff 1st Int. #65 (FPL stating that it is seeking authority to reallocate up to 100% of the program capacity to one customer class in the future without seeking additional approval from the Commission).

<sup>46</sup> Valle, Matthew. *Florida Power and Light Company, Direct Testimony of Matthew Valle, Docket No. 20190061-El.* July 29, 2019. *Before the Florida Public Service Commission.*

1 SolarTogether offers customers an opportunity to offset their electricity  
2 consumption by leasing capacity in utility-scale solar systems and receiving a  
3 payment for generation that is typically appropriate for utility-scale generators  
4 with net benefits not occurring until 9 years in the future. Net metering, on the  
5 other hand, allows those who install solar on their own premises to receive steady  
6 compensation at the retail rate of electricity so long as there is not a net surplus at  
7 year's end. As a result, the net metering customer typically owns the solar assets  
8 and, in most instances today, makes less use of the transmission and distribution  
9 system. This provides value to the customer and to the grid by reducing system  
10 utilization, improving home values, reducing emissions, adding resiliency to the  
11 grid, and creating other values that the system owner may assign to the  
12 installation. Many of those values are quantifiable, but not all.

13 **Q. PLEASE COMPARE THE FINANCIAL VALUE PROPOSITION OF**  
14 **SOLARTOGETHER AND ROOFTOP SOLAR.**

15 **A.** Comparing the financial value proposition of each option shows that the net  
16 present value of customer owned rooftop solar to the average participating  
17 residential customer approaches \$7,000 over a thirty-year window with a simple  
18 payback period of 9 years with the use of existing incentives. SolarTogether  
19 would provide the same customer a net present value benefit of \$420 dollars, also  
20 with a 9-year simple payback period. The financial value proposition of net  
21 metering is roughly 15 times stronger than that of SolarTogether. Residential  
22 customers unable to pursue net metering may find SolarTogether represents an

1 avenue to move to clean energy for their energy supply, but the proposed program  
2 is by no means an equivalent replacement for net metering.

3 **Q: WHAT ARE YOUR RECOMMENDATIONS TO THE COMMISSION**  
4 **CONCERNING FPL’S MARKETING OF THIS PROGRAM?**

5 A. It is concerning that FPL plans to present SolarTogether as a comparable  
6 alternative to investing in rooftop solar in its marketing materials.<sup>47</sup> Another core  
7 principle of community solar is that it should be additive to existing renewable  
8 energy programs, and not undermine them.<sup>48</sup> FPL is clear that in designing the  
9 rate structure for this program, a primary motivator was to achieve a seven year  
10 payback period for subscribing customers.<sup>49</sup> When a monopoly utility is permitted  
11 to use its rate-basing authority to impact the economics of a clean energy offering  
12 in order to reach a certain value proposition for certain subscribing customers (in  
13 this case, seven years), it raises a concern of whether FPL’s real intent is to  
14 *undermine* current market options from rooftop solar companies, rather than being  
15 motivated to *expand* the suite of clean energy offerings for its customers. If FPL  
16 is indeed seeking to expand upon rather than compete with rooftop solar

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<sup>47</sup> See FPL Response to Staff 1st Int. #51 (FPL’s web-based enrollment system for SolarTogether will provide a payback calculation for residential and small commercial customers comparing a net metered rooftop solar system to a SolarTogether subscription).

<sup>48</sup> See Vote Solar and GRID Alternatives, *Low-Income Solar Policy Guide*, available at <https://www.lowincomesolar.org/best-practices/community-solar/>.

<sup>49</sup> See FPL Response to Staff 1st Int. #117 (“In order for participants to achieve a 7-year payback, approximately 94.9% of the system benefits ... were allocated to participants.”); see also FPL Response to OPC 5th Int. #25; FPL Response to Staff 2nd Int. #170 (FPL sought to offer participants “a simple payback that met the market needs...”).

1 offerings, the Commission should not allow FPL to market subscriptions in  
2 SolarTogether as a comparable alternative to rooftop solar.

3 **Q. DOES FPL'S SOLARTOGETHER PROGRAM RECOGNIZE VALUE TO**  
4 **THE GRID IN INNOVATIVE WAYS?**

5 A. No. The program could incorporate a time-varying rate that would better reflect  
6 the value of solar to the grid and all of its users instead of using flat, average  
7 avoided cost evaluations of generically-provided energy to the grid. These values  
8 could be projected and calculated or could be determined in real time, and there  
9 are examples nationally of both approaches being proposed and utilized.<sup>50</sup> The  
10 value of ancillary services from the generation is also not directly captured by the  
11 current proposal, another area where real value to the grid is accruing to FPL and  
12 non-participants but not to the customers paying to provide those benefits.  
13 Participation in the program could also be contingent on enrollment in time-of-use  
14 rates and could come with assistance from FPL like demand-side management  
15 activities that would incentivize participants to provide greater benefits for all  
16 stakeholders on the grid. Incorporating these opportunities would allow  
17 SolarTogether to be notable for more than its sheer size. I recommend that the  
18 Commission require FPL to consider such improvements in any future phases of  
19 the program offering.

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<sup>50</sup> Barua, Priya and Celina Bonugli. 2018. *Emerging Green Tariffs in US Regulated Electricity Markets*. World Resources Institute. [https://wriorg.s3.amazonaws.com/s3fs-public/emerging-green-tariffs-in-us-regulated-electricity-markets\\_1.pdf](https://wriorg.s3.amazonaws.com/s3fs-public/emerging-green-tariffs-in-us-regulated-electricity-markets_1.pdf).

1           If these recommendations are adopted, SolarTogether can provide over a thousand  
2           megawatts of cost-effective new solar capacity, meet the needs and demands of  
3           largest customers, improve energy equity for the entire FPL customer base and  
4           provide an innovative model for other utilities to follow.

5   **Q.   DO YOU HAVE ANY OTHER RECOMMENDATIONS?**

6   A.   Yes. In order to further improve the value proposition of this program for all  
7           participants, I recommend that the Commission require FPL to retire all the RECs  
8           on subscribers' behalf. FPL's current proposal is to retire Renewable Energy  
9           Credits (RECs) when subscribers ask for it.<sup>51</sup> FPL explains that "some customers  
10          want to contribute to the growth of solar but do not have need for the RECs."<sup>52</sup>  
11          All customers need assurance that their investments in the program are actually  
12          contributing to the growth of solar. The best way to ensure that is to foreclose the  
13          option for FPL or some other party to utilize the RECs associated with a  
14          customer's subscription for some future purpose - raising the risk of double-  
15          counting and undermining the integrity of FPL's offering.

16   **Q.   DOES THIS CONCLUDE YOUR PRE-FILED TESTIMONY?**

17   A.   Yes, it does.

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<sup>51</sup> See FPL Response to Staff 1st Int. #69 (FPL plans to retire RECs only if customers opt in).

<sup>52</sup> FPL Response to Staff 2nd Int. #171.

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CHAIRMAN CLARK: Next witness is Mr. Steven W. Chriss. Walmart's witness.

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MS. RULE: Mr. Chairman, we also would move that Mr. Chriss' September 23rd, 2019 direct testimony and his exhibit, SWC-1, be entered into the record as though read.

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CHAIRMAN CLARK: So ordered.

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(Whereupon, Witness Chriss' prefiled direct testimony was inserted into the record as though read.)

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1 **Introduction**

2 **Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND OCCUPATION.**

3 A. My name is Steve W. Chriss. My business address is 2001 SE 10th St., Bentonville,  
4 AR 72716-0550. I am employed by Walmart Inc. as Director, Energy Services.

5 **Q. ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS DOCKET?**

6 A. I am testifying on behalf of Walmart Inc. ("Walmart").

7 **Q. PLEASE DESCRIBE YOUR EDUCATION AND EXPERIENCE.**

8 A. In 2001, I completed a Master of Science in Agricultural Economics at Louisiana State  
9 University. From 2001 to 2003, I was an Analyst and later a Senior Analyst at the  
10 Houston office of Econ One Research, Inc., a Los Angeles-based consulting firm. My  
11 duties included research and analysis on domestic and international energy and  
12 regulatory issues. From 2003 to 2007, I was an Economist and later a Senior Utility  
13 Analyst at the Public Utility Commission of Oregon in Salem, Oregon. My duties  
14 included appearing as a witness for PUC Staff in electric, natural gas, and  
15 telecommunications dockets. I joined the energy department at Walmart in July 2007  
16 as Manager, State Rate Proceedings. I was promoted to Senior Manager, Energy  
17 Regulatory Analysis, in June 2011. I was promoted to my current position in October,  
18 2016 and the position was re-titled in October, 2018. My Witness Qualifications  
19 Statement is attached as Exhibit SWC-1.

1       **Q.    DO YOU HOLD ANY MEMBERSHIPS RELEVANT TO THE ISSUES BEFORE THE**  
2       **COMMISSION FOR CONSIDERATION IN THIS CASE?**

3       A.    Yes. I am a member of the Edison Electric Institute National Key Accounts Program  
4       Customer Advisory Group and the Renewable Energy Buyers Alliance Advisory Board.

5       **Q.    HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY BEFORE THE FLORIDA PUBLIC**  
6       **SERVICE COMMISSION ("COMMISSION")?**

7       A.    Yes. I testified in Docket Nos. 110138-EI, 120015-EI, 130040-EI, 130140-EI, 140002-  
8       EG, 160021-EI, and 160186-EI.

9       **Q.    HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY BEFORE OTHER STATE**  
10       **REGULATORY COMMISSIONS?**

11       A.    Yes. I have submitted testimony in over 200 proceedings before 39 other utility  
12       regulatory commissions. I have also submitted testimony before legislative  
13       committees in Kansas, Missouri, North Carolina, and South Carolina. My testimony  
14       has addressed topics including, but not limited to, cost of service and rate design,  
15       return on equity, revenue requirements, ratemaking policy, large customer  
16       renewable programs, qualifying facility rates, telecommunications deregulation,  
17       resource certification, energy efficiency/demand side management, fuel cost  
18       adjustment mechanisms, decoupling, and the collection of cash earnings on  
19       construction work in progress.

20       **Q.    ARE YOU SPONSORING ANY EXHIBITS IN YOUR TESTIMONY?**

21       A.    Yes. I am sponsoring Exhibit SWC-1 listed in the Table of Contents.

1       **Q.     PLEASE BRIEFLY DESCRIBE WALMART'S OPERATIONS IN FLORIDA.**

2       A.     As shown on Walmart's website, Walmart operates 383 retail units and eight  
3           distribution centers and employs over 105,000 associates in Florida. In fiscal year  
4           ending 2019, Walmart purchased \$8 billion worth of goods and services from Florida-  
5           based suppliers, supporting over 116,000 supplier jobs.<sup>1</sup>

6       **Q.     PLEASE BRIEFLY DESCRIBE WALMART'S OPERATIONS WITHIN FLORIDA POWER &  
7           LIGHT COMPANY'S ("COMPANY" OR "FPL") SERVICE TERRITORY.**

8       A.     Walmart has 148 stores, four distribution centers, and related facilities that take  
9           electric service from the Company.

10      **Q.     HAS WALMART ESTABLISHED CORPORATE RENEWABLE ENERGY GOALS?**

11      A.     Yes. Walmart has established aggressive and significant company-wide renewable  
12           energy goals, including: (1) to be supplied 50 percent by renewable energy by 2025,  
13           and, ultimately (2) to be supplied 100 percent by renewable energy<sup>2</sup>. Additionally,  
14           Walmart has set a science-based target to reduce emissions in our operations by 18  
15           percent by 2025 through the deployment of energy efficiency measures and the  
16           consumption of renewable energy.<sup>3</sup> To date, Walmart has contracted for or currently  
17           takes electricity from one or more renewable resources in at least 25 states and  
18           Puerto Rico.

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<sup>1</sup> <http://corporate.walmart.com/our-story/locations/united-states#/united-states/florida>

<sup>2</sup> <http://corporate.walmart.com/global-responsibility/environmental-sustainability>

<sup>3</sup> <http://news.walmart.com/2016/11/04/walmart-offers-new-vision-for-the-companys-role-in-society>

1       **Q.     CAN YOU PROVIDE INSIGHT INTO WALMART'S GENERAL FRAMEWORK FOR**  
2       **EVALUATING RENEWABLE OPPORTUNITIES?**

3       A.     Yes. Walmart's desire for renewable energy resources must be balanced against its  
4       business needs. As a general rule, Walmart does not enter into premium structures  
5       or programs that only result in additional costs to our facilities. Rather, Walmart seeks  
6       renewable energy resources that deliver industry-leading cost, including renewable  
7       and project specific attributes such as renewable energy credits ("RECs"), within  
8       structures where the value proposition allows the customer to receive any potential  
9       benefits brought about by taking on the risk of being served by that resource instead  
10      of, or in addition to, the otherwise applicable resource portfolio. Additionally,  
11      Walmart does not enter into programs with terms in excess of 15 years.

12      **Q.     WHAT CHANNELS DOES WALMART UTILIZE TO SECURE RENEWABLE ENERGY**  
13      **RESOURCES?**

14      A.     To meet our renewable energy goals, Walmart utilizes three primary channels to  
15      secure renewable energy resources:

16      •     **Contracting for off-site resources:** These products are typically structured to  
17      replace other energy, both physically and on the bill. This mechanism allows  
18      Walmart to leverage its scale to drive the best project economics while  
19      simultaneously minimizing transaction time and costs. To date, Walmart has  
20      contracted for these resources in deregulated markets through Texas Retail  
21      Energy, LLC, a competitive electric supplier wholly owned by Walmart that serves  
22      as our electric supplier in most deregulated retail markets, to directly serve our

1 load. We have also entered into "Virtual Power Purchase Agreements" in  
2 deregulated wholesale markets, which do not directly serve our load but allow us  
3 to bring new large scale renewable resources to the market.

- 4 • **Contracting for on-site resources:** Walmart contracts for on-site, behind the  
5 meter resources through power purchase agreements ("PPAs") and leases that  
6 allow performance guarantees. These resources replace grid energy and are  
7 priced with the expectation that the operating costs for the site are reduced.
- 8 • **Utility partnerships:** Walmart works with its utility partners to develop useable  
9 commercial and industrial programs and economic structures targeted to function  
10 within the confines of the regulatory compact and with minimal impact to non-  
11 participating customers. When this option is pursued, Walmart works to ensure  
12 that programs it assists to develop can be used by the broader group of large  
13 commercial and industrial customers, not merely Walmart. Walmart is unique in  
14 the large commercial space because we have significant in-house rate and  
15 regulatory expertise that we are willing to leverage to create opportunities to  
16 move the entire industry forward. The largest of these partnerships that have  
17 been executed to date include the development of and participation in Georgia  
18 Power Company's Renewable Energy Development Initiative ("REDI") program<sup>4</sup>  
19 and Alabama Power Company's 72 MW solar farm in Alabama.<sup>5</sup> Additionally,

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<sup>4</sup> <https://www.greenbiz.com/article/how-google-and-walmart-work-utilities-procure-clean-power>

<sup>5</sup> <http://www.alabamane.wscenter.com/2018/01/02/chambers-county-solar-project-now-serving-alabama-power-customers/>

1 Walmart worked with Virginia Electric and Power Company d/b/a Dominion  
2 Energy Virginia to develop their recently approved Schedule RG<sup>6</sup> and with Ameren  
3 Missouri to develop their Renewable Choice program.<sup>7</sup> While Walmart assisted in  
4 developing these opportunities, the opportunities are open to other interested  
5 large customers, not just Walmart.

6 **Q. DID WALMART ENGAGE IN DISCUSSIONS WITH FPL ABOUT THE SOLARTOGETHER**  
7 **PROGRAM?**

8 A. Yes. Walmart had a conversation with FPL in October 2018 regarding the  
9 SolarTogether Program ("SolarTogether" or "Program") development process.  
10 Walmart has also preregistered in the program.  
11

12 **Purpose of Testimony and Summary of Recommendations**

13 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

14 A. The purpose of my testimony is to respond to FPL's Petition to approve the proposed  
15 SolarTogether Program.

16 **Q. PLEASE SUMMARIZE WALMART'S RECOMMENDATIONS TO THE COMMISSION.**

17 A. Walmart's recommendations to the Commission are:

18 1) Walmart appreciates FPL's efforts to develop the SolarTogether Program and  
19 recommends that the Commission approve the program with one change to clarify

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<sup>6</sup> See *Application of Virginia Electric and Power Company For approval to establish a companion tariff designated Schedule RG, pursuant to § 56-234 of the Code of Virginia*, Virginia State Corporation Commission Case No. PUR-2017-00163, Order Approving Tariff (issued Nov. 6, 2018).

<sup>7</sup> See *Union Electric Company Tariff, M.O. P.S.C. Schedule No. 6, 1<sup>st</sup> Revised Sheet No. 94.*

1 REC treatment; and,

2 2) The Commission should require the Company to retire the RECs associated with a  
3 participating customer's subscription on behalf of that customer and include language  
4 in any approved SolarTogether tariff that clearly articulates this transfer.

5 **Q. DOES THE FACT THAT YOU MAY NOT ADDRESS AN ISSUE OR POSITION ADVOCATED**  
6 **BY THE COMPANY OR ANY OTHER PARTY INDICATE WALMART'S SUPPORT?**

7 A. No. The fact that an issue is not addressed herein or in related filings should not be  
8 construed as an endorsement of, agreement with, or consent to any filed position.

9

10 ***SolarTogether***

11 **Program Description**

12 **Q. WHAT IS YOUR GENERAL UNDERSTANDING OF SOLARTOGETHER AS PROPOSED BY**  
13 **THE COMPANY?**

14 A. My general understanding is that the Company proposes SolarTogether as a voluntary  
15 community solar program that allows an eligible customer to subscribe to a share of  
16 a solar resource dedicated to the program and receive an energy credit and the option  
17 to have the REC retired on their behalf. See Direct Testimony of Matthew Valle ("Valle  
18 Direct"), page 3, line 10 to line 13 and page 20, line 10 to line 11.

19 **Q. WHAT IS YOUR UNDERSTANDING OF THE PROPOSED PROGRAM APPLICABILITY FOR**  
20 **FPL CUSTOMERS?**

21 A. FPL proposes to offer SolarTogether to all customers that take service under a  
22 metered rate schedule and do not have a delinquent balance with the Company. See

1 *id.*, Exhibit MV-1, page 4. The Company proposes that an account be able to subscribe  
2 to up to 100 percent of its previous 12 months usage. *See id.*, page 16, line 7 to line 8.

3 **Q. WHAT IS YOUR UNDERSTANDING OF THE COMPANY'S PROPOSED PROGRAM SIZE?**

4 A. My understanding is that the Company proposes a total Program size for Phase 1 of  
5 1,490 MW, constituted of 372.5 MW of capacity for residential and small business  
6 customers and 1,175.5 MW of capacity for commercial, industrial, and governmental  
7 customers. *Id.*, page 9, line 22 to line 23 and page 16, line 18 to line 19.

8 **Q. DOES THE COMPANY PROPOSE DESIGNATED RESOURCES IN THIS DOCKET?**

9 A. Yes. The Company proposes that the program energy be sourced through 20 new  
10 "solar energy centers" to be come online in 2020 and 2021. FPL states that they may  
11 propose additional resources in the future if needed to meet customer demand. *Id.*,  
12 page 9, line 22 to page 10, line 8.

13 **Q. WHAT TERM LENGTH DOES THE COMPANY PROPOSE?**

14 Q. The Company proposes a term length of not less than one billing cycle. *See id.* Exhibit  
15 MV-1, page 1.

16 **Q. WHAT DOES THE COMPANY PROPOSE IF THE CUSTOMER TERMINATES SOLAR  
17 DIRECT SERVICE EARLY?**

18 A. FPL proposes that a customer who terminates SolarTogether service, either  
19 voluntarily or involuntarily, may not re-enroll for a period of 12 months. *Id.*

20 **Q. WHAT REC TREATMENT DOES THE COMPANY PROPOSE?**

21 A. The Company proposes that participants may elect to have the Company retire the  
22 RECs on behalf of the participating customer. *Id.*, page 20, line 10 to line 11. However,

1 it does not appear that the Company has included this provision in the proposed tariff.

2 *See id.*, Exhibit MV-1.

3 **Q. DOES THE COMPANY PROPOSE A PORTABILITY PROVISION FOR CUSTOMERS**  
4 **MOVING WITHIN THE SERVICE TERRITORY?**

5 A. Yes. *Id.*, page 2.

6 **Q. WHAT DOES THE COMPANY PROPOSE AS THE SOLARTOGETHER SUBSCRIPTION**  
7 **CHARGE FOR PHASE I?**

8 A. The Company proposes a fixed Subscription Charge of \$6.76/kW-month for each kW  
9 of subscribed capacity. Per the Company's testimony, the Subscription Charge  
10 represents 96 percent of the base revenue requirements of the program, including  
11 operational costs for the solar centers and program administrative costs. *See id.*, page  
12 10, line 21 to page 11, line 1.

13 **Q. WHAT DOES THE COMPANY PROPOSE AS THE SOLARTOGETHER SUBSCRIPTION**  
14 **CREDIT?**

15 A. The Company proposes a 30 year schedule of \$/kWh Subscription Credits based on  
16 projected system benefits from the solar centers, escalated annually. *Id.*, page 11,  
17 line 2 to line 6 and Exhibit MV-1, page 3.

18

1 **Walmart's Recommendations**

2 **Q. WHAT IS THE WALMART'S OVERALL IMPRESSION OF THE PROPOSED**  
3 **SOLARTOGETHER PROGRAM?**

4 A. Walmart appreciates FPL's efforts to develop the SolarTogether Program and  
5 recommends that the Commission approve the program with one change to clarify  
6 REC treatment.

7 **Q. DOES THE PROPOSED SOLARTOGETHER PROGRAM MEET THE PARAMETERS**  
8 **SOUGHT BY WALMART IN EXAMINING UTILITY PROGRAMS?**

9 A. Generally, yes. As I describe earlier in my testimony, Walmart does not enter into  
10 premium structures or programs that only result in additional costs to our facilities.  
11 Rather, Walmart seeks renewable energy resources that deliver industry-leading cost,  
12 including renewable and project specific attributes such as RECs, within structures  
13 where the value proposition allows the customer to receive any potential benefits  
14 brought about by taking on the risk of being served by that resource instead of, or in  
15 addition to, the otherwise applicable resource portfolio. Additionally, Walmart does  
16 not enter into programs with terms in excess of 15 years. FPL's proposed  
17 SolarTogether Program meets all of these parameters.

18 **Q. WHAT IS WALMART'S CONCERN IN REGARD TO THE COMPANY'S PROPOSED REC**  
19 **TREATMENT?**

20 A. Walmart's concern is that the Company's proposed REC treatment does not  
21 definitively convey RECs to participating customers, and the proposed tariff does not  
22 clearly convey this transfer.

1       **Q.     WHY IS THIS IMPORTANT?**

2       A.     Requiring the Company to retire RECs for a participating customer's subscription on  
3             behalf of that customer and clearly articulating that program feature will ensure that  
4             all participating customers can accurately represent their usage of the program as the  
5             consumption of renewable energy. Without the RECs that claim is not valid,<sup>8</sup> and the  
6             Company's proposal to only retire the RECs upon request, and the exclusion of any  
7             supporting tariff language, puts customers at risk for misrepresenting the content of  
8             their electricity consumption.

9       **Q.     WHAT IS WALMART'S RECOMMENDATION TO THE COMMISSION ON THIS ISSUE?**

10      A.     The Commission should require the Company to retire the RECs associated with a  
11             participating customer's subscription on behalf of that customer and include language  
12             in any approved SolarTogether tariff that clearly articulates this transfer.

13      **Q.     DOES THIS CONCLUDE YOUR TESTIMONY?**

14      A.     Yes.

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<sup>8</sup> For more information, see the Environmental Protection Agency's Green Guides at <https://www.ftc.gov/news-events/media-resources/truth-advertising/green-guides>.

1                   CHAIRMAN CLARK: Mr. Cavros, you have Mr.  
2 Bryan A. Jacob?

3                   MR. CAVROS: Yes. Thank you, Mr. Chairman.  
4 At this time we would request that the testimony of  
5 Mr. Bryan A. Jacob be entered into the record  
6 though read, as well as one prefiled exhibit, BHA-1  
7 thank you.

8                   CHAIRMAN CLARK: So ordered.

9                   (Whereupon, Witness Jacob's prefiled direct  
10 testimony was inserted into the record as though  
11 read.)

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1 **Q. Please state your name, position and business address.**

2 A. My name is Bryan A. Jacob. My role is Solar Program Director for Southern Alliance for  
3 Clean Energy (“SACE”). My business address is 691 John Wesley Dobbs Ave., Atlanta,  
4 Georgia, 30312.

5  
6 **Q. On whose behalf are you testifying in this proceeding?**

7 A. I am testifying on behalf of SACE.

8  
9 **Q. Please summarize your qualifications and work experience.**

10 A. I graduated from Georgia Institute of Technology in 1993 with a Bachelor of Civil  
11 Engineering. From 1993-2015, I coordinated and led environmental programs for The  
12 Coca-Cola Company, including development of a system-wide climate protection  
13 strategy. The strategy I led incorporated both demand side energy efficiency as well as  
14 supply side renewable energy. In 2015, I launched Climate Coach International, LLC, to  
15 help organizations understand climate-related risks and opportunities, then design and  
16 implement practical (and cost-effective) climate mitigation and adaptation strategies. I  
17 joined SACE in 2017 to lead the Solar Program efforts across seven Southeastern states.  
18 My program responsibilities range from conducting research on solar power trends to  
19 advocacy on utility resource planning, and specifically include collaboration with  
20 stakeholders in the solar energy development industry.

21 I am the lead author on the SACE *Solar in the Southeast Annual Report* which provides  
22 an equitable, unbiased comparison of various-sized utilities ranked by *watts per customer*

1 (W/C) of solar power. Community and/or shared solar programs have become more  
2 common in our database that underpins the SACE reporting efforts. I have reviewed  
3 multiple community/shared solar program designs in Florida as well as across the  
4 Southeast region and have shared my community solar program experience via SACE  
5 communication channels (cleanenergy.org blog) as well as at conferences (for example,  
6 the 2018 Alabama Solar Industry Association Conference).

7  
8 **Q. Have you previously testified before the Florida Public Service Commission (“the**  
9 **Commission”)?**

10 A. No. This is my first time testifying before the Commission, though I previously filed  
11 comment letters in this docket (letter dated June 26, 2019) as well as the docket for a  
12 shared solar proposal from Tampa Electric (Docket No. 20180204-EI, letter dated March  
13 20, 2019). I also testified recently before the Georgia Public Service Commission in the  
14 Georgia Power Integrated Resource Plan, Docket Nos. 42310 and 42311

15  
16 **Q. What is the purpose of your testimony?**

17 A. The purpose of my testimony is to compare and/or contrast FPL’s proposed  
18 SolarTogether program with established best practice criteria. This comparison will help  
19 inform the Commission on the suitability of the proposed program design and where  
20 enhancements may be warranted in this and/or future program expansions.

21

1 **Q. Are you submitting exhibits along with your testimony?**

2 A. Yes, I am submitting one (1) exhibit with my testimony, as follows:

3 • BAJ-1 Resume of Bryan A. Jacob.

4 **Q. What is the role of SACE in this proceeding?**

5 A. SACE's mission is to promote responsible energy choices to ensure clean, safe, and  
6 healthy communities throughout the Southeast, including Florida. As part of this mission,  
7 SACE supports and advocates for the meaningful development of low cost, clean solar  
8 power, including community solar programs.

9 The proposed FPL SolarTogether program will be the largest shared solar program in the  
10 United States totaling 1,490 megawatts (MW) in Phase 1. This represents an enormous  
11 clean energy opportunity for many of the state's electricity customers, including  
12 customers who are SACE members. Shared, or community, solar programs play an  
13 important role in extending the economic and environmental benefits of solar power to  
14 customers who may not be able to directly take advantage of rooftop solar power.  
15 Therefore, a successfully designed community solar program, one which maximizes  
16 economic benefit to customers, will advance the adoption of low-cost, clean solar power  
17 and is consistent with SACE's mission, and that of its members.

18 **Q. Have you evaluated the FPL SolarTogether proposal?**

19 A. Yes.

20

21 **Q. What criteria did you use for this evaluation?**

22 A. There is no single set of criteria that can comprehensively prescribe a perfect program  
23 design. FPL referenced various reports including the *Community Solar Policy Decision*

1 *Matrix* published by the Coalition for Community Solar Access (CCSA) in 2017 and  
2 *Community Solar Program Design Models* from the Smart Electric Power Alliance  
3 (SEPA) in 2018<sup>1</sup> as well as the 2018 National Renewable Energy Lab (NREL) study,  
4 *Focusing the Sun. State Considerations for Designing Community Solar Policy.*<sup>2</sup>

5 For my evaluation, I compared the FPL SolarTogether proposal with criteria established  
6 in *A Checklist for Voluntary Utility-Led Community Solar Programs* published by  
7 VoteSolar and the Interstate Renewable Energy Council (“IREC”) in November 2018.<sup>3</sup>

8 These seven criteria include: (#1) expanding consumer access to clean energy; (#2)  
9 offering a tangible economic benefit for all participating customers, (#3) identifying ways  
10 to promote cost savings; (#4) prioritizing the customer experience; (#5) promoting  
11 competition; (#6) optimizing community solar to benefit the grid and the community; and  
12 (#7) complementing existing programs.

13  
14 **Q. What conclusions did you reach after applying the criteria to the SolarTogether**  
15 **program?**

16 A. The SolarTogether program will expand access to clean energy Both utility scale and  
17 rooftop solar continue to grow in Florida. Yet, a number of customers can’t directly take  
18 advantage of rooftop solar power They may lease their homes, live in multi-tenant  
19 dwellings, have roofs that can’t host a solar system or have too much shade, or  
20 experience other mitigating factors. Shared (or community) solar programs are intended  
21 to provide access and choice to the economic and environmental benefits of solar power  
22 for those customers.

1 In Phase 1, FPL plans to add 20 new solar energy centers between 2020 and 2021,  
2 totaling 1,490 MW<sub>AC</sub>.<sup>4</sup> The SolarTogether program is designed to serve 74,500  
3 residential customers assuming the customers subscribe at 100% of an assumed 1,000  
4 kWh monthly energy usage.<sup>5</sup> This amounts to approximately 1.5% of FPL retail  
5 customers), in addition to commercial customers. For comparison, the Tampa Electric  
6 Shared Solar program (SSR-1) approved by this Commission in Commission Order PSC  
7 No. 2019-0215-TRF-EI will generate enough energy for approximately 2,600 residential  
8 customers at the 100 percent subscription level.<sup>6</sup> That represents approximately 0.3% of  
9 Tampa Electric's retail customers. Therefore, Phase 1 of the SolarTogether program  
10 meets more customer demand than the Tampa Electric program and other programs the  
11 Commission has previously approved. Phase 1 Program capacity, allocated for  
12 commercial, industrial and governmental customers aligns with the level of capacity  
13 reserved during preregistration. Many of these large customers have clean energy and/or  
14 sustainability goals and have expressed significant demand for this program. Therefore,  
15 Phase 1 of the SolarTogether program, and subsequent phases, will expand customer  
16 access to clean energy

17  
18 The proposed SolarTogether program offers tangible economic benefit directly to  
19 participating customers. The subscription rate for Phase 1 is established as \$6.76 per  
20 kilowatt (kW). Participants will receive a bill credit based on the generation in kilowatt-  
21 hours (kWh) from their subscribed capacity For FPL SolarTogether Phase 1, the Benefit  
22 Rate starts at 3.42881 cents per kilowatt hour and will escalate at 1.45 percent annually  
23 The program is designed to allow participants to achieve simple payback between years

1 5-7 of program participation after which time, an increasing net benefit continues to  
2 accrue to the participant. Therefore, the program provides a more significant and more  
3 certain benefit to participants than other shared solar programs that the Commission has  
4 previously approved.<sup>7</sup> Given that the benefit does not accrue immediately to participants,  
5 the program would be enhanced with a low-to-moderate income (LMI) customer  
6 component.

7  
8 The 74.5 MW capacity of each project and the twenty proposed solar installations  
9 leverage economies of scale that promote development cost savings. The Company, for  
10 example, appears to have gone through a rigorous Request For Proposal (RFP) process. It  
11 indicates that more than 98% of the construction costs are the result of competitive RFP  
12 solicitations.<sup>8</sup>

13 FPL estimates the total construction cost of the Projects, including land, will be \$1 79  
14 billion or \$1,202 per kW<sub>AC</sub>. Costs may vary either upward or downward on an individual  
15 site basis, but FPL projects that the total cost will not exceed \$1 79 billion.<sup>9</sup>

16  
17 The Company has prioritized the customer experience in the program design by  
18 providing participants with transparent and flexible subscription terms. The program will  
19 allow participation with no upfront subscription fees, allowing flexible subscription  
20 amounts; no cancellation fees for leaving the program; and a portability feature that  
21 allows the subscription to stay with customer if they move within the FPL service  
22 territory. FPL states that participation is voluntary and customers can keep their  
23 subscription as long as they remain an FPL customer. Participants may unsubscribe at

1 any time and are not committed to a long- term contract. Participants may also increase  
2 their subscription level once a year based on availability and decrease their subscription  
3 level at any time.<sup>10</sup>

4  
5 Community/shared solar programs should complement existing programs. For example,  
6 they should be “additive” and result in additional renewable energy resources on the  
7 distribution grid rather than competing with existing programs. FPL’s SolarTogether  
8 program complements existing programs as these are new solar facilities that will be built  
9 for the purpose of serving participants in this program. Although, the Company has  
10 committed to build Projects 1 and 2<sup>11</sup> even if the SolarTogether program is not approved  
11 by the Commission, it states that it will re-evaluate the timing and amount of any  
12 additional solar capacity in that circumstance.<sup>12</sup> FPL should continue to offer and  
13 promote existing rooftop solar net metering options for customers preferring on-site self-  
14 generation.

15  
16 **Q. Have you previously used these criteria to evaluate other community solar program**  
17 **designs?**

18 A. Yes. Earlier this year, I personally evaluated the shared solar proposal from Tampa  
19 Electric, Docket No. 20180204-EI, using these same IREC criteria. Additionally, prior to  
20 my joining SACE, another former member of SACE staff performed a similar evaluation  
21 of Gulf Power’s proposed community solar pilot, Docket No. 20150248-EG That

1 assessment relied on a previous version of IREC criteria in *Model Rules for Shared*  
2 *Renewable Energy Programs*, June 2013.

3  
4 **Q. Please summarize SACE's evaluation of the FPL SolarTogether proposal.**

5 A. FPL has put forth a novel and significantly-sized investor-owned utility shared solar  
6 program design that provides substantial system benefit and prioritizes the customer  
7 experience. The FPL proposed SolarTogether program meets many of the best design  
8 practice criteria for shared solar programs: (#1) expanding consumer access to clean  
9 energy; (#2) offering a tangible economic benefit for all participating customers; (#3)  
10 identifying ways to promote cost savings; (#4) prioritizing the customer experience; and  
11 (#7) complementing existing programs. In my view, opportunities exist for further  
12 alignment on criteria (#5) promoting competition and (#6) optimizing community solar to  
13 benefit the grid and the community

14  
15 **Q. Do you have specific recommendations for how FPL could improve the**  
16 **SolarTogether program to further exhibit best practice design?**

17 A. Yes, I have three recommendations to offer

- 18 • Regarding promoting competition, FPL should continue to pursue the most cost-  
19 effective projects possible and ensure that they are competitively bidding out the  
20 construction and panel procurement to a wide range of vendors to get the best pricing  
21 and terms. FPL should examine whether competitive solicitation of solar power in

1 future phases of the program may offer an even more cost-effective way to offer solar  
2 to customers.

- 3 • Regarding optimizing community solar to benefit the grid and the community, FPL  
4 has indicated that residual area at four of the SolarTogether sites could be suitable for  
5 energy storage. This would include Project 2, Site 2; Project 3, Site 6; Project 4, Sites  
6 2 and 4.<sup>13</sup> A recent report from the Institute for Energy Economics and Financial  
7 Analysis documents substantial system value for utility-scale energy storage ranging  
8 from firming intermittent renewable generation to contributing to system peak needs  
9 as well as contributing to system resilience.<sup>14</sup> FPL should pursue these opportunities  
10 for optimizing the SolarTogether program to further benefit the grid and community  
11 by incorporating energy storage at the appropriate sites.
- 12 • Some criteria, including those referenced by FPL<sup>15</sup>, incorporate considerations for  
13 how to engage LMI participation. A specific design that facilitates participation by  
14 LMI customers would be a desirable enhancement to the FPL proposal.  
15 SolarTogether as currently designed has no goals for participation by LMI customers,  
16 nor a mechanism by which to attract LMI customers. The Commission should  
17 provide flexibility and encouragement for FPL to return to the Commission with an  
18 LMI enhancement that could be incorporated into the program.

19  
20 **Q. Does SACE support the proposed FPL SolarTogether program?**

- 21 A. Yes. NREL estimated that, as of July 2019, Community solar projects represent more  
22 than 1.3 gigawatts alternating-current (GW-AC) of total installed capacity in the United  
23 States. Phase 1 of the proposed FPL SolarTogether program will more than double the

1 current community solar capacity in the country. This represents an enormous clean  
2 energy opportunity for roughly half of the state's electricity customers, offering them  
3 more choices around their electric service. SACE supports Commission approval of this  
4 program and respectfully requests the Commission consider the above recommendations  
5 for enhancing the program.

6

7 **Q. Does this conclude your testimony?**

8 **A. Yes.**

- 
- <sup>1</sup> Florida Power and Light, Response to OPC's Third Request for Production of Documents, Request No. 6
- <sup>2</sup> Florida Power and Light, Response to Staff's 1<sup>st</sup> Data Request, No. 66.
- <sup>3</sup> Vote Solar and IREC, *A Checklist for Voluntary Utility-Led Community Solar Programs*, November 2018, at <https://irecusa.org/publications/checklist-for-voluntary-utility-led-community-solar-programs/>
- <sup>4</sup> Florida Power and Light, *Direct Testimony of Matthew Valle*, Docket Nos. 20190061-EI, p. 9, July 29, 2019
- <sup>5</sup> *Id.* at 17
- <sup>6</sup> Florida Public Service Commission, Order PSC No. 2019-0215-TRF-EI, Docket No. 2018-0204, June 3, 2019
- <sup>7</sup> See e.g. Florida Public Service Commission, Order PSC No. 2019-0215-TRF-EI, June 3, 2019; Florida Public Service Commission, Order No. PSC-2016-0119-TRF-EG, March 21, 2016; and Order No. PSC-2017-0451-AS-EU, November 20, 2017
- <sup>8</sup> Florida Power and Light, *Direct Testimony of William Brannen*, Docket No. 20190061-EI, p.10, July 29, 2019
- <sup>9</sup> *Id.*
- <sup>10</sup> Florida Power and Light, *Direct Testimony of Matthew Valle*, Docket No. 20190061-EI, p. 9, July 29, 2019
- <sup>11</sup> Phase 1 of the SolarTogether program will consist of 5 distinct projects. See *Id.* at 19
- <sup>12</sup> Florida Power and Light, Response to OPC's 5<sup>th</sup> Set of Interrogatories, No. 26.
- <sup>13</sup> Florida Power and Light, Response to Staff's 1<sup>st</sup> Data Request, Nos. 4-23.
- <sup>14</sup> Institute for Energy Economics and Financial Analysis, *Advances in Electricity Storage Suggest Rapid Disruption of U.S. Electricity Sector*, June 2019 at <http://ieefa.org/wp-content/uploads/2019/06/Advances-in-Electricity-Storage-Suggest-Potential-Rapid-Disruption-of-U.S.-Electricity-Sector-1-1.pdf>
- <sup>15</sup> Coalition for Community Solar Access (CCSA), *Community Solar Policy Decision Matrix*, December 2017 at <http://www.communitysolaraccess.org/wp-content/uploads/2017/12/Community-Solar-Policy-Decision-Matrix-2017.pdf>

1                   CHAIRMAN CLARK:  And, Mr. Trierweiler.  Mr.  
2                   Cayce Hinton is your witness.

3                   MR. TRIERWEILER:  Yes, Chairman.  Staff would  
4                   like to move the prefiled direct and supplemental  
5                   direct testimony of Cayce Hinton into the record,  
6                   please.

7                   CHAIRMAN CLARK:  So ordered.

8                   (Whereupon, Witness Hinton's prefiled direct  
9                   and supplemental testimony was inserted into the  
10                  record as though read.)

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**DIRECT TESTIMONY OF CAYCE HINTON**

1  
2 **Q. Please state your name and business address.**

3 **A.** My name is Cayce Hinton. My business address is 2540 Shumard Oak Boulevard,  
4 Tallahassee, Florida 32399.

5 **Q. By whom are you presently employed and in what capacity?**

6 **A.** I am employed by the Florida Public Service Commission (Commission) as the  
7 Director of the Office of Industry Development and Market Analysis. I have been employed  
8 by the Commission since April 1999.

9 **Q. Briefly review your educational and professional background.**

10 **A.** In 1989, I received a Bachelor of Science degree in Business, with a major in  
11 Marketing, from the Florida State University College of Business. I have worked for the  
12 Commission for twenty years in a variety of roles, including seven years as the chief advisor  
13 for two different Commissioners.

14 **Q. Please describe your current responsibilities.**

15 **A.** The Office of Industry Development and Market Analysis (IDM) consists of four  
16 sections, two of which address the Commission's remaining responsibilities in regulating the  
17 telecommunications industry in Florida. The other two sections focus mainly on energy issues.  
18 IDM has the responsibility of developing eight different reports on an annual basis. We also  
19 have primary responsibility for monitoring activities at the Florida Legislature when in session  
20 and producing bill analyses when requested by legislators or their staff. I also give  
21 presentations before legislative committees when requested on the role of the Commission or  
22 particular topics under our jurisdiction. IDM also takes the lead on special projects, analyzes  
23 developing policies and prepares recommendations for implementing state laws, such as  
24 renewable energy, net metering, nuclear cost recovery, and storm protection plan cost  
25 recovery.

1 **Q. Have you previously presented testimony before this Commission?**

2 **A.** No.

3 **Q. What is the purpose of your testimony?**

4 **A.** My testimony is limited to discussing certain principles of Florida's regulatory  
5 framework and the regulatory treatment of new, electric generation, including solar  
6 photovoltaic. I will compare the regulatory treatment being requested for FPL's SolarTogether  
7 program with Florida's standard regulatory practices when addressing new electric generation  
8 assets. I will also identify policy considerations that are intended to illuminate and provide  
9 context for pending decisions regarding FPL's petition.

10 **Q. Please explain the regulatory framework you are referring to.**

11 **A.** Florida consumers are served by vertically integrated electric utilities that are  
12 considered natural monopolies. Florida has a regulatory framework established through statute  
13 that grants utilities specific rights and responsibilities, and that establishes particular roles and  
14 responsibilities for the Commission as the economic regulatory agency.

15 For example, as natural monopolies electric utilities are granted exclusive service  
16 territories, and they are allowed to charge rates to recover the prudent cost of providing  
17 electric service to customers within that territory. The utilities are also given an opportunity to  
18 earn a fair and reasonable return on their investment in plant used to provide electric service.

19 Along with those rights, utilities have the obligation to serve all customers within their  
20 service territory, and that service must be adequate, safe, and reliable. Utilities are not  
21 permitted to build unnecessary facilities or incur costs for unnecessary services. In addition,  
22 utilities may not unduly discriminate or show preference in providing service or charging  
23 rates.

24 The Commission's role is to ensure that customers receive adequate, safe electric  
25 service at rates that are fair, just, and reasonable. Those rates may only recover the cost of

1 plant that is actually used and useful in the public service. The Commission also oversees the  
2 reliability and sufficiency of the bulk power grid and ensures that any additions to the grid are  
3 necessary and cost-effective.

4 **Q. Describe utility and regulatory practices that ensure sufficient and cost-effective**  
5 **electric service for Florida ratepayers.**

6 **A.** A large part of that work is accomplished through the resource planning process, a  
7 traditional utility function performed to ensure reliable service at the least cost. Utilities  
8 annually assess forecasts of customer load and reserve margins for a ten-year period and  
9 perform a system reliability analysis. An evaluation of existing generating resources is  
10 conducted by the utility in order to identify potential opportunities to improve generation  
11 efficiency. If a need for additional capacity is identified in a given year, the utility will  
12 develop alternative resource plans, evaluating combinations of demand-side and supply-side  
13 resources, to determine the most feasible, cost-effective approach to meet that need. The  
14 important principle underlying this process is the idea of “least cost planning.”

15 There are typically two paths for gaining approval for new electric generation assets.  
16 One path requires approval by numerous governmental agencies prior to the construction of  
17 new electric generation assets. The other path does not require prior-approval. The need for  
18 prior-approval depends upon whether the facility is subject to Florida’s Electrical Power Plant  
19 Siting Act (PPSA). The PPSA applies to solar or steam generating facilities 75 megawatts  
20 (MW) or larger. If the utility selects a project as the most cost-effective alternative that meets  
21 those criteria, it must obtain a site certification through the PPSA for the project. In that case,  
22 the utility must file a petition for a determination of need from the Commission. The utility  
23 must support its forecasts of future need for the additional capacity and demonstrate cost-  
24 effectiveness by evaluating all alternatives, including purchases from third-party providers.  
25 The PPSA also requires obtaining environmental approvals from the Florida Department of

1 Environmental Protection, with ultimate approval of the site certification by the Governor and  
2 Cabinet. Once the project receives all necessary approvals, the utility may construct the  
3 facility and seek cost recovery in a future rate proceeding.

4 The other path forward is for projects that do not require PPSA certification. In that  
5 instance, the utility is not required to obtain prior-approval from the Commission to construct  
6 the facility. Cost recovery may be sought in a future rate proceeding at the Commission, where  
7 the utility will be required to address the prudence of its actions and costs.

8 **Q. How do new generation additions affect rates?**

9 **A.** Once the utility completes construction and the plant begins generating electricity for  
10 customers, the utility will place the costs of the project in rate base. Rates will not be adjusted,  
11 however, until the Commission approves a rate change in a subsequent rate proceeding. At  
12 that time the Commission will set rates to allow the utility to recover the prudently incurred  
13 costs of the new plant. Since the new generating plant is placed in service to benefit all  
14 ratepayers, the cost of that plant will be shared by all ratepayers in a non-discriminatory  
15 manner, according to their respective rate classes.

16 The Commission has historically held to the regulatory principle of allocating costs to  
17 the cost-causer. That way customers who may benefit from a project are not subsidized by  
18 customers who do not enjoy the same benefit. This principle applies to projects both large and  
19 small. When a new generating facility is built to meet increases in customer load, the general  
20 body of ratepayers is charged in a non-discriminatory manner because they are all the cost-  
21 causer. That is, they all equally enjoy the benefit of that additional capacity.

22 **Q. Are there situations when only certain customers are charged rates for a project?**

23 **A.** Yes. When special projects are requested by a particular customer or set of customers,  
24 the customers who benefit from the project cover the full cost of that project. For example,  
25 FPL currently has a program called SolarNow, which was first approved by the Commission

1 as a pilot program in 2014. Under SolarNow, customers voluntarily pay an additional fee to  
2 promote the development of small solar facilities throughout FPL's service territory. FPL  
3 collects these fees from participants and uses that revenue to finance construction of the solar  
4 facilities. The rates charged to customers who do not participate are not impacted by these  
5 construction projects. In voluntary programs such as SolarNow, non-participants are shielded  
6 from the costs of the program.

7 **Q. How have utility-scale solar generating facilities been addressed in this regulatory**  
8 **framework?**

9 **A.** In recent years, construction of utility-scale solar facilities have been the result of rate  
10 case settlement agreements that created a solar base rate adjustment, referred to as a SoBRA,  
11 to recover the costs of such facilities. Basically, the settlements authorized the construction of  
12 a certain amount of solar generation as long as the projects met certain criteria. Once approved  
13 by the Commission, the utility would adjust its base rates for all customers to recover the costs  
14 of the solar facilities without the need for a separate rate proceeding. All of the previous  
15 SoBRA units were below the 75 MW threshold and therefore did not require certification  
16 under the PPSA. Even though these projects were authorized as part of settlement agreements,  
17 the regulatory treatment is consistent with the idea that these facilities are determined by the  
18 Commission to benefit the entire body of ratepayers; therefore, the cost for these facilities is  
19 allocated to the entire body of ratepayers in a non-discriminatory manner.

20 **Q. Does FPL's proposed SolarTogether program follow the same regulatory**  
21 **framework?**

22 **A.** No. SolarTogether does not seem to fit in either of the paths of approval I previously  
23 discussed. It appears that FPL has taken solar facilities that have been identified by the utility  
24 as cost-effective for the general body of ratepayers and allocated the majority of benefits to  
25 participants in a voluntary program. The participating customers pay an additional charge and

1 receive a credit based upon the generation output of the facilities. The charge and credit have  
2 been designed to provide a payback period of 5 to 7 years for participants.

3         The capital costs of the proposed solar facilities would be added to FPL's rate base.  
4 The revenues from the SolarTogether charge would be included as base revenues in FPL's  
5 monthly earning surveillance reports. The administrative costs for the program would be  
6 reflected as base rate recoverable costs. FPL will not increase base rates during the term of its  
7 existing base rate settlement, but there may be a request to increase base rates to recover these  
8 costs in the future. However, the credits to participants would be recovered from the general  
9 body of ratepayers through FPL's fuel cost recovery clause.

10         Phase 1 of the program involves the construction of 1,490 MW, consisting of twenty  
11 74.5 MW solar arrays. According to FPL witness Valle's testimony, the program contemplates  
12 additional phases, with implementation of each phase dependent upon customer interest in  
13 participation. Under this scenario, instead of adding generating units to satisfy projected  
14 reliability or economic needs for all customers, FPL's proposed SolarTogether program would  
15 add solar facilities based upon approving a tariff that reflects the desires of a select group of  
16 customers.

17         Mr. Valle explained in his testimony that customer interest in this program was related  
18 to "sustainability and financial goals." The program would offer participants an alternative to  
19 the installation of rooftop solar and provide a means to lower their electricity bills over time.  
20 The program would also allow participants to achieve desired corporate/political goals of  
21 100% renewable energy. Mr. Valle explained that over 200 customers pre-registered for 1,100  
22 MW of the project's 1,490 MW total, with many of them reserving subscriptions equal to 75%  
23 to 100% of their annual energy usage. This represents a very small percentage of FPL's 4.9  
24 million customers participating in a program that impacts the entire body of ratepayers.

25 **Q. Are you recommending that the Commission deny FPL's petition to approve the**

1 **SolarTogether program?**

2 **A.** I am neither recommending approval nor denial. My only goal is to ensure the  
3 Commission is fully informed when making its decision. The SolarTogether program seems to  
4 represent a departure from traditional least cost planning principles. If generating facilities are  
5 being built to meet the desires of a certain portion of customers, should all the benefits and  
6 costs of the program be allocated to those customers as the cost causer? In addition, if solar  
7 additions are now a cost-effective generation addition for all customers, is it appropriate to  
8 implement a voluntary program that allocates the majority of benefits to a small group of  
9 customers? Finally, does this allocation of costs and benefits between participants and non-  
10 participants represent undue discrimination or preference? These questions express policy  
11 considerations raised by the SolarTogether program.

12 **Q. Does this conclude your testimony?**

13 **A.** Yes.  
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1 A. FPL updated its economic analysis by changing some of the assumptions used to  
2 calculate the cost-effectiveness of the program, resulting in a new allocation of costs and  
3 benefits of the program. However, the program does not appear to have been structurally  
4 changed. Certain costs of the program will still be included in rate base and potentially  
5 included in base rates in the future, and the credits provided to participants will be recovered  
6 from the general body of ratepayers through FPL's fuel cost recovery clause. In addition,  
7 future additions of utility-scale solar will still be determined based upon interest in a voluntary  
8 program rather than on an analysis of need for additional capacity. So, although FPL has  
9 testified that the SolarTogether program is more cost-effective than originally proposed,  
10 structurally it still represents a departure from historical regulatory practices that are in place  
11 to protect the general body of ratepayers, as explained in my previous testimony.

12 **Q. Does this conclude your supplemental testimony?**

13 A. Yes.  
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1 Juno Beach, Florida.

2 Q And the last time, your current position with  
3 FPL?

4 A Director of Integrative Resource Planning.

5 Q Thank you. Dr. Sim, have you adopted Mr.  
6 Enjamio's rebuttal and supplemental testimony that was  
7 filed on November 27th, 2019 consisting of seven pages  
8 in this proceeding?

9 A Yes.

10 Q Dr. Sim, did you cause to be filed on  
11 January 9th, 2020 an errata that modified Mr. Enjamio's  
12 testimony to include your information in place of his?

13 A Yes.

14 Q Do you have any other changes or corrections  
15 to that testimony?

16 A I do not.

17 Q If I were to ask you the same questions today  
18 as contained in that November 27, 2019 prefiled  
19 testimony, as modified with your information in place of  
20 Mr. Enjamio, would your answers be the same?

21 A Yes, they would.

22 MR. COX: Chairman Clark, FPL would request  
23 that this testimony, the November 27, 2019 rebuttal  
24 testimony, supplement testimony, be inserted into  
25 the record as though read.

1                   CHAIRMAN CLARK:    So ordered.

2                   (Whereupon, Witness Sim's prefiled rebuttal  
3           testimony was inserted into the record as though  
4           read.)

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**ERRATA SHEET OF STEVEN R. SIM****November 27, 2019 – Rebuttal of Supplemental Testimony**

<b><u>PAGE #</u></b>	<b><u>LINE #</u></b>	<b><u>CHANGE</u></b>
Page 1	Line 3	Delete “JUAN E. ENJAMIO” and insert “STEVEN R. SIM”
Page 2	Line 2	Delete “Juan E. Enjamio” and insert “Steven R. Sim”

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**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**  
**FLORIDA POWER & LIGHT COMPANY**  
**SUPPLEMENTAL REBUTTAL TESTIMONY OF JUAN E. ENJAMIO**  
**DOCKET NO. 20190061-EI**  
**NOVEMBER 27, 2019**

1 **Q. Please state your name and business address.**

2 A. My name is Juan E. Enjamio. My business address is Florida Power & Light  
3 Company (“FPL”), 700 Universe Boulevard, Juno Beach, Florida 33408.

4 **Q. Did you previously submit direct and rebuttal testimony in this  
5 proceeding?**

6 A. Yes.

7 **Q. What is the purpose of your supplemental rebuttal testimony?**

8 A. My supplemental rebuttal testimony addresses a number of statements made by  
9 the Office of Public Counsel (“OPC”) witness Dauphinais.

10 **Q. On page 6, lines 10-19, OPC witness Dauphinais states that FPL’s  
11 testimony and discovery responses undermine “any claim that that need is  
12 the motivating factor for the projects.” Did FPL make such a claim?**

13 A. No. FPL has not made any claims that meeting a reliability need is the primary  
14 motivation for proposing the FPL SolarTogether Program. As stated in the  
15 direct testimony of FPL witness Valle, FPL is proposing this program with the  
16 primary objective of meeting a substantial demand from customers who are  
17 seeking expanded access to solar energy, and to do so in a manner that is also  
18 cost-effective for FPL’s general body of customers.

19 **Q. But does FPL in fact need the FPL SolarTogether projects to meet its  
20 reliability criteria?**

21 A. Yes. Although the primary purpose of this program is to address an unmet need  
22 for participation in solar energy by FPL customers in a cost-effective way, the  
23 firm summer capacity added by the proposed solar facilities does help meet

1 FPL’s summer reliability requirements. As shown in Exhibit JE-5 from my  
2 rebuttal testimony, there is a need, starting in 2020, for additional resources to  
3 meet the 20% minimum generation requirement. From 2020 to 2022 the firm  
4 capacity contribution of the FPL SolarTogether Projects is higher than the  
5 reliability need and therefore the projects fully meet the minimum reliability  
6 requirements, plus provide additional reliability for those years. Starting in  
7 2023, the FPL reliability requirement is higher than the summer firm capacity  
8 value of the FPL SolarTogether Projects, so incremental generation resources  
9 will be needed for reliability purposes, in addition to the reliability contribution  
10 of the FPL SolarTogether Projects.

11 **Q. On page 7, footnote 3, Mr. Dauphinais implies that FPL is using the 20%**  
12 **reserve margin criterion in a manner that deviates from the Commission’s**  
13 **Order No. PSC-99-2507-S-EU (“Order 2507”) which approved that**  
14 **criterion. Is this true?**

15 A. No. FPL’s application of the 20% minimum generation reserve margin here is  
16 consistent with Order 2507. It is also consistent with the way FPL and the other  
17 investor-owned utilities (“IOUs”) in the state have applied the 20% minimum  
18 generation reserve margin criterion since Order 2507 took effect.

19

20 Order 2507 states:

21 1. The IOUs will each voluntarily adopt a minimum reserve  
22 margin planning criterion of twenty percent (20%)

1                   2. The twenty percent (20%) reserve margin planning  
2                   criterion will be a minimum; no maximum or cap will be  
3                   represented or implied by this criterion  
4

5                   It is clear from this language that the 20% criterion is intended as a minimum  
6                   reserve margin. It is equally clear that there is no strict upper bound limitation  
7                   on the resulting reserve margin. Instead, prudent utility resource planning will  
8                   often result in resource plans that, in some years, have reserve margins in excess  
9                   of the 20% minimum.

10               **Q. Why would prudent resource planning sometimes result in reserve**  
11               **margins above the 20% minimum?**

12               A. The reason why prudent resource planning sometimes will result in reserve  
13               margins larger than the minimum requirement is that the most economic  
14               generation resources may have generation capabilities that are much larger than  
15               the projected increase in peak load in a given year. An effort to strictly limit  
16               reserve margins to be very close to the 20% minimum would preclude the use  
17               of large efficient base-load generation such as natural gas-burning combined-  
18               cycle units which have been shown to be the most cost-effective options in  
19               many dockets brought in front of the Florida Public Service Commission  
20               (“Commission”) since Order 2507 took effect. A misguided effort to  
21               unnecessarily and arbitrarily cap reserve margins, as suggested by Mr.  
22               Dauphinais, would necessarily have resulted in higher costs and electric rates  
23               to FPL’s customers in the past and would do so in the future.

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**Q. Mr. Dauphinais thinks that FPL has not made an effort to reasonably quantify the current risk exposure of the FPL SolarTogether Program. How do you respond?**

A. I disagree. For both its original case and the updated case presented in FPL’s rebuttal testimony, FPL has applied a robust risk/benefit analysis, based on a well-established methodology presented by FPL and relied upon by the Commission in many dockets addressing the addition of large generation including solar facilities. This methodology consists of presenting a base case cost-effectiveness analysis as the basis of its petition and supplementing the base case with a sensitivity analysis consisting of an additional eight analyses based on combinations of low, medium and high natural gas fuel prices as well as low, medium and high cost of CO<sub>2</sub> compliance. The results of all these nine cases are set forth in the two tables that follow.

The first table shows the cost-effectiveness results of all nine scenarios prior to allocating to participants. As shown in Table 1 below, in eight out of the nine scenarios, FPL’s customers are better off with FPL’s SolarTogether Program.

1 **Table 1 – CPVRR Savings to General Body of Customers Prior to**  
 2 **Allocating to Participants**

<b>Fuel Cost Forecast</b>	<b>Environmental Forecast</b>	<b>Net System Savings (Millions)</b>
High Fuel Cost	Low CO2	(\$323)
High Fuel Cost	Mid CO2	(\$414)
High Fuel Cost	High CO2	(\$563)
Mid Fuel Cost	Low CO2	(\$159)
Mid Fuel Cost	Mid CO2	(\$249)
Mid Fuel Cost	High CO2	(\$401)
Low Fuel Cost	Low CO2	\$8
Low Fuel Cost	Mid CO2	(\$82)
Low Fuel Cost	High CO2	(\$232)

3 *- Negative ( ) Indicates Savings to FPL Customers*

4 Table 2 shows the cost-effectiveness results for FPL's general body of  
 5 customers after the allocation of \$137 million of benefits to the Program  
 6 participants.

7

8 **Table 2 – CPVRR Savings to General Body of Customers After**  
 9 **Allocating to Participants**

<b>Fuel Cost Forecast</b>	<b>Environmental Forecast</b>	<b>Net System Savings (Millions)</b>
High Fuel Cost	Low CO2	(\$186)
High Fuel Cost	Mid CO2	(\$277)
High Fuel Cost	High CO2	(\$427)
Mid Fuel Cost	Low CO2	(\$22)
Mid Fuel Cost	Mid CO2	(\$112)
Mid Fuel Cost	High CO2	(\$265)
Low Fuel Cost	Low CO2	\$145
Low Fuel Cost	Mid CO2	\$54
Low Fuel Cost	High CO2	(\$96)

10 *- Negative ( ) Indicates Savings to FPL Customers.*

1 As shown in Table 2, the general body of customers, including non-participants,  
2 is better off in seven out of the nine scenarios. Considered as a whole, this  
3 sensitivity analysis shows that there is more potential “upside” benefit than  
4 “downside” risk to FPL customers if natural gas prices and carbon emission  
5 allowance prices differ from the base case assumptions (mid-fuel and mid-  
6 CO<sub>2</sub>).

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8 In his supplemental testimony, Mr. Dauphinais attempts to discredit the sound  
9 risk/benefit results shown in both these tables by proposing that the results for  
10 certain scenarios should be weighted differently, and proposing that those  
11 scenarios resulting in lower system benefits (low gas and low CO<sub>2</sub>) should be  
12 given greater weight. This ignores the fact that the carbon price scenarios are  
13 already based on probability-weighted scenarios, with the probabilities  
14 developed by ICF, one of the leading experts in the area of emission price  
15 forecasting. It also ignores the fact that FPL’s high and low fuel price forecasts  
16 are chosen based on statistical analysis of natural gas prices, and not on FPL’s  
17 whim as he seems to suggest. The probabilities assigned by ICF to the different  
18 scenarios and the methodology used to determine the high and low gas price  
19 forecasts were previously provided by FPL in the discovery process in response  
20 to Staff’s First Set of Interrogatories No. 96.

21 **Q. Does this conclude your supplemental rebuttal testimony?**

22 A. Yes.

1 BY MR. COX:

2 Q Dr. Sim, did you have any exhibits to this  
3 testimony?

4 A No exhibits.

5 Q Have you prepared a summary of your rebuttal  
6 supplemental testimony?

7 A Yes, I have.

8 Q Could you please give that to the Commission  
9 at this time?

10 A Yes. Thank you. Good afternoon again,  
11 Chairman Clark and Commissioners. Mr. Enjamio's  
12 supplemental rebuttal testimony, which I adopt, is very  
13 narrowly focused and addresses only three points. The  
14 first point is regarding the reliability need for the ST  
15 program, the SolarTogether program. The OPC witness  
16 states that FPL's testimony and discovery responses  
17 undermine, quote, "any claim that need is the motivating  
18 factor for the projects," unquote. Now, that statement  
19 is inaccurate. FPL has not made such a claim. As we've  
20 stated repeatedly here, in Tallahassee, the motivating  
21 factor for this program is to meet a substantial demand  
22 from FPL's customers for this particular program.  
23 However, the firm capacity from the 20 solar facilities  
24 will fully meet FPL's resource needs in 2020, through  
25 2022, plus meet most of FPL's resource needs in the year

1 2023.

2           The second point is the OPC witness implies  
3 that FPL is using the 20 percent reserve margin criteria  
4 in a manner that deviates from the Commission's order,  
5 which approved that criteria. First, that implication  
6 is inaccurate. There is no deviation from the  
7 Commission order back in 1999 establishing that  
8 criteria. Second, FPL is applying the 20 percent  
9 reserve margin criteria in this docket in the same  
10 manner it has applied that criteria since the Commission  
11 order was issued 20 years ago in all Public Service  
12 Commission dockets since the order went into effect.

13           The third point, the OPC witness believes that  
14 FPL has not made an effort to reasonably quantify the  
15 current risked exposure of the SolarTogether program.  
16 That belief is ill-founded. FPL has presented an  
17 examination of the economics of the program under nine  
18 scenarios of potential fuel and environmental compliance  
19 cost futures. The same methodology has been relied upon  
20 by the Commission for years in numerous dockets  
21 addressing the planned addition of various resource  
22 additions, including solar facilities.

23           And that concludes the summary of the  
24 supplemental rebuttal testimony. Thank you.

25           MR. COX: Thank you, Dr. Sim. Chairman Clark,

1 the witness is tendered for cross-examination.

2 CHAIRMAN CLARK: Mr. Rehwinkel.

3 MR. REHWINKEL: Thank you, Mr. Chairman. Dr.  
4 Sim, good afternoon.

5 THE WITNESS: Good afternoon, sir.

6 MR. REHWINKEL: Mr. Bores has advised me to  
7 look out for your health. So, in that interest,  
8 I'm going to pass on asking you any questions.  
9 Thank you.

10 THE WITNESS: My health and I thank you.

11 CHAIRMAN CLARK: Mr. Moyle.

12 EXAMINATION

13 BY MR. MOYLE:

14 Q FPL, expert witness testified about the nine  
15 box a little bit and ultimately came to the conclusion  
16 that the Commission gets to make the call on that. Do  
17 you agree with that? Use yes or no.

18 A Yes. Ultimately the Commission reviews all of  
19 the information put before them and makes a judgment  
20 call.

21 MR. MOYLE: That's all I have. Thank you.

22 CHAIRMAN CLARK: Okay. Staff.

23 MR. TRIERWEILER: No questions.

24 CHAIRMAN CLARK: And Commissioners? No  
25 questions. All right.



1           A     Yes, I did.

2           Q     Do you have any changes or corrections to that  
3 testimony?

4           A     I do not.

5           Q     If I asked you the same questions today, would  
6 your answers be the same?

7           A     Yes, they would.

8           Q     Thank you.

9                   MS. MONCADA: Mr. Chairman, we request that  
10 Mr. Valle's supplemental testimony be entered into  
11 the record as though read.

12                   CHAIRMAN CLARK: So ordered.

13                           (Whereupon, Witness Valle's prefiled  
14 supplemental testimony was inserted into the record  
15 as though read.)

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## I. INTRODUCTION

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3 **Q. Please state your name and business address.**

4 A. My name is Matthew Valle. My business address is Florida Power & Light Company,  
5 700 Universe Boulevard, Juno Beach, Florida 33408.

6 **Q. Did you previously submit direct and rebuttal testimony in this proceeding?**

7 A. Yes.

8 **Q. Are you sponsoring any supplemental rebuttal exhibits in this case?**

9 A. Yes. I am sponsoring the following supplemental rebuttal exhibit:

- 10 • Exhibit MV-3 – Net Metering Subsidy

11 **Q. What is the purpose of your supplemental rebuttal testimony?**

12 A. The purpose of my supplemental rebuttal testimony is to refute the supplemental  
13 testimony of Office of Public Counsel (“OPC”) witness Dauphinais related to the  
14 demonstration of need, Program risk allocation, and the Settlement Agreement.  
15 Additionally, I will add clarification to address statements presented by Florida Public  
16 Service Commission (“Commission” or “FPSC”) Staff witness Hinton in his  
17 supplemental testimony.

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## II. RESOURCE NEED AND ECONOMIC ANALYSIS

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3 **Q. On page 5 of OPC witness Dauphinais’s supplemental testimony, he states that**  
4 **FPL has failed to demonstrate that there is a resource need for the FPL**  
5 **SolarTogether projects. Is FPL requesting approval of the FPL SolarTogether**  
6 **Program solely on the basis of resource need?**

7 A. No. The FPL SolarTogether Program is proposed to meet customer demand for this  
8 type of voluntary community solar program in a manner that benefits the subscribers  
9 and the general body of customers. It is not driven on the basis of meeting a specific  
10 system resource need. Nonetheless, while not specifically conceived to meet a resource  
11 need, the Program does align with the resource plan presented in FPL’s 2019 Ten Year  
12 Site Plan (“TYSP”) with the exception of a one-year acceleration of 2022 solar to serve  
13 customer demand for the Program. In addition, the Program adheres to the fundamental  
14 tenet that the solar generation will be constructed only if it is cost-effective. Witness  
15 Dauphinais has invented his own standard for approval of new generation that ignores  
16 both recent precedent and the Commission’s wide latitude in approving new generation  
17 facilities. Mr. Dauphinais’s “test” that new generation only be approved if it is needed  
18 for reliability *and* lowest cost does not leave room for other factors that are laid out in  
19 and contemplated by recent Commission rulings.

20 **Q. What factors has the Commission considered for other large-scale solar projects**  
21 **in Florida?**

22 A. The FSPC has recently articulated their view of need in the Duke Energy Florida  
23 (“DEF”) Solar Base Rate Adjustment (“SoBRA”) in Order PSC-2019-0292-FOF-EI.

1 In that Order, the FPSC concluded that while the projects were “not needed for DEF’s  
2 system reserve margin, there is an economic need...for ratepayers and a greater fuel  
3 diversity gained with the projects.” This recognizes that there can also be an economic  
4 need and a need to enhance fuel diversity. The FPSC also recognized that this solar  
5 generation would “help DEF meet its needs for future capacity...and defer the need for  
6 future gas-fired generation.” FPL’s SolarTogether Program is consistent with this  
7 FPSC view. In addition, FPL’s SolarTogether Program also directly addresses an  
8 expressed customer need for more retail options when it comes to solar energy and  
9 direct involvement with implementing solar energy in Florida.

10 **Q. Does FPL’s integrated resource planning process take into account factors other**  
11 **than immediate resource needs and cost-effectiveness when evaluating resource**  
12 **options and resource plans?**

13 A. Yes. On page 60 of FPL’s 2019 TYSP, FPL explains that it takes into account a number  
14 of factors in its resource planning work. FPL typically discusses these in terms of  
15 “system concerns” or “system factors.” FPL’s 2019 TYSP provides a few examples of  
16 the system factors such as maintaining/enhancing system fuel diversity which was  
17 specifically mentioned in the FPSC’s orders in the DEF SoBRA Docket Nos.  
18 20190072-EI and 20180149-EI. Through its development work on the FPL  
19 SolarTogether Program, FPL also views customers’ desire to help implement the use  
20 of solar energy as another factor to be considered.

1 **Q. So in conclusion, how does FPL SolarTogether fit within the framework of what**  
2 **the FPSC considers when evaluating solar and what FPL takes into account in its**  
3 **resource planning?**

4 A. FPL SolarTogether meets three broad needs while providing additional benefits to  
5 customers. First, the Program was designed to meet a *customer need* that has been  
6 growing over the past several years for direct participation in additional renewables as  
7 I have described in previous testimony. Second, the Program meets an *economic need*  
8 in that it is a cost-effective program that brings benefits to both participants and the  
9 general body of customers. Third, the Program also meets a *resource need* in that it  
10 adds capacity that will defer future resource additions, including fossil-fueled  
11 generation, and also aligns closely with the resource plan presented in FPL's 2019  
12 TYSP. FPL recognizes that this Program is new and innovative, but believes it is firmly  
13 grounded in the view expressed by the FPSC in the DEF SoBRA decision and in FPL's  
14 long-standing integrated resource planning process.

15 **Q. How does OPC witness Dauphinais's misidentification of the primary driver for**  
16 **FPL SolarTogether impact his position that the addition of solar facilities under**  
17 **the Program must be the lowest cost option necessary to meet a reliability need?**

18 A. Witness Dauphinais's failure to recognize that the proposed solar generation facilities  
19 would be installed principally to meet customer interest in the advancement of solar  
20 energy led him to incorrectly rely solely on economic analyses applicable in more  
21 traditional utility resource planning contexts. FPL's cost-effectiveness analysis instead  
22 follows the same methodology FPL has employed to analyze the cost-effectiveness of  
23 all solar sites previously presented to and approved by the Commission (2016 solar

1 included in FPL's 2016 Rate Case (Order No. PSC-16-0560-AS-EI) and the 2017,  
2 2018, 2019 and 2020 FPL SoBRA Projects (Order Nos. PSC-2018-0610-FOF-EI and  
3 PSC-2019-0484-FOF-EI), consisting of four sites each). What is different in the FPL  
4 SolarTogether analysis is how those benefits are shared among participants and the  
5 general body of customers.

6 **Q. Witness Dauphinais claims on page 4 of his rebuttal testimony that “non-**  
7 **participants” will pay a subsidy to participants of an estimated \$133 million. Is**  
8 **there any validity to that claim?**

9 A. None whatsoever. And this misstatement originates from his misunderstanding of the  
10 need as discussed above. Similar to FPL's SoBRA projects, the benefits derived from  
11 the solar facilities flow to those who are paying for the costs of those facilities. In fact,  
12 the participants are paying more than 100% of the cost of the facilities and receiving  
13 only 55% of the benefits. Witness Dauphinais's assertion that the benefits belong to  
14 the general body even if the general body does not pay for the facilities does not make  
15 sense on its face and would be self-defeating for any program that does not count the  
16 entire general body as participants. And although the general body is supporting the  
17 levelization of costs in the early years, they are more than paid back in both costs and  
18 benefits over the life of the projects.

19 **Q. Witness Hinton stated that future additions of large-scale solar will still be**  
20 **determined based upon interest in a voluntary program rather than an analysis**  
21 **of need for additional capacity. Do you agree?**

22 A. No. FPL believes strongly that having a variety of methods by which to add renewables  
23 specifically benefits all Floridians. FPL is not proposing that approval of this tariff

1 would or should prohibit or prevent the addition of new solar via the traditional  
2 recovery methods or through specially approved recovery methods such as SoBRA.  
3 Rather, FPL SolarTogether would reflect a new, additional option and approach to  
4 recovery of future large-scale solar projects.

5

### 6 **III. PARTICIPANT AND GENERAL BODY RISK ALLOCATION**

7

8 **Q. Witness Dauphinais noted in footnote 1 of his testimony that he found FPL's use**  
9 **of general body of customers confusing and preferred non-participating**  
10 **customers as those who either have chosen not to subscribe in FPL SolarTogether**  
11 **or were not able to. Do you agree with his clarification?**

12 A. No. All customers, including FPL SolarTogether participants, are part of the general  
13 body of customers and remain under their previous rates. Participating customers pay  
14 FPL SolarTogether costs and receive benefits, however, their underlying bill remains  
15 subject to the same potential movement as customers who do not subscribe to the  
16 Program. Therefore, FPL has chosen general body of customers to identify the impacts  
17 of FPL SolarTogether that are not allocated to the participants of the Program.

18 **Q. On page 9 of his testimony, witness Dauphinais concluded that FPL SolarTogether**  
19 **is not FPL's most cost-effective solution for FPL's customers as a whole. Do you**  
20 **agree?**

21 A. No, I do not. Simply put, the general body of customers are projected to save money,  
22 and witness Dauphinais's statements that customers are worse off economically are  
23 simply not true. Here, the general body of customers are projected to share in 45% of

1 the total present value of benefits while not carrying any allocation of the present value  
2 of revenue requirements of the projects. As evidenced by the economic analysis  
3 included in FPL witness Enjamio's rebuttal, the FPL SolarTogether Program is  
4 projected to create total CPVRR system savings of \$249 million. FPL proposes to  
5 allocate \$137 million of those savings, or 55%, to participants, leaving an estimated  
6 \$112 million, or 45%, to benefit the general body of customers even though the cost of  
7 the generation that creates those savings will be covered entirely by the Program  
8 participants.

9

10 Today, there is no rate base resource option that would allow the general body of  
11 customers to realize any percentage of projected savings without bearing a  
12 commensurate share of the projected revenue requirements. In fact, the Program  
13 participants will pay an estimated 104.5% of the base revenue requirements, further  
14 reducing risk for the non-participating portion of the general body of customers. In  
15 essence, the non-participating portion of the general body of customers pays none of  
16 the CPVRR of the costs while projected to receive approximately \$112 million in  
17 CPVRR savings.

18 **Q. Are there other benefits that the general body of customers gains from FPL**  
19 **SolarTogether?**

20 A. Yes. For one, the addition of 1,490 MW of new solar generation further diversifies  
21 FPL's fuel mix, which reduces risk to the general body of customers of fuel cost  
22 fluctuations and reduces dependence on fossil fuels. Secondly, the additional solar  
23 generation will further reduce CO<sub>2</sub> and other emissions which packages obvious

1 environmental benefits together with risk mitigation for FPL customers in the event of  
2 future carbon emission regulation pricing or taxing mechanisms. Third, new solar  
3 projects create jobs and positive economic impact in the 20 different communities  
4 across Florida that will host these projects. Fourth, it is likely that FPL SolarTogether,  
5 as an alternative to rooftop solar, may reduce the amount of rooftop solar that otherwise  
6 would have occurred and thus reduce the inherent subsidy in current net metering rates.  
7 And fifth, FPL continues to hear from customers who support FPL offering this  
8 Program even if that particular customer does not plan to participate at this time.  
9 Providing customers with a variety of options is important as is positioning Florida to  
10 be a leader with community solar nationally.

11 **Q. On page 17 of his testimony, witness Dauphinais is concerned about the risk to the**  
12 **general body of customers under the nine scenarios FPL presented. Do you believe**  
13 **a proper understanding of the nine scenarios should give the Commission any**  
14 **concern?**

15 A. No, I do not. First, the purpose of these “9-box” scenarios is to stress test key  
16 assumptions in the analysis. In regard to fuel costs, FPL used the same approach it has  
17 used in numerous prior FPSC dockets to develop low and high forecasted fuel costs.  
18 This methodology is described on page 109 of FPL’s 2019 TYSP.

19  
20 It is not surprising or atypical that FPL sees at least one but sometimes several negative  
21 scenarios given the significant changes to underlying assumptions. Passing seven of  
22 nine scenarios is generally a very strong indication of the robustness of the cost-  
23 effectiveness analysis. Second, FPL’s base scenario already includes historically low

1 natural gas and emissions forecasted costs. Third, even if the low fuel cost case does  
2 occur, FPL's electric rates and customer bills would significantly drop from where they  
3 are expected to be in the Medium Fuel/Medium CO<sub>2</sub> cost scenario.

4 **Q. On page 29 of his testimony, witness Dauphinais stated that greater emphasis  
5 should be placed on the low price assumption cases. Do you agree?**

6 A. No. Witness Dauphinais brings no credentials to the subjects of long-term forecasting  
7 of global commodity pricing, tariffs and election outcomes. His prognostication is  
8 surprising – not because of his apparent confidence but because he fails to offer any  
9 evidence, exhibit or argument as to why emphasis should be placed in the low fuel cost  
10 and low emission cost cases. FPL is left to speculate as to why he thinks “the forecasted  
11 net CPVRR savings from those alternatives will not actually materialize.” Witness  
12 Dauphinais wants it both ways. On the one hand, he wants us to believe that these solar  
13 investments are risky and that they likely will cost, not save, customers money over the  
14 long run. But only a few pages before, he wants us to be concerned that the FPL  
15 SolarTogether participants are taking too large a share of the benefits and the “non-  
16 participants” are worse off than they otherwise would have been. Both futures cannot  
17 be true. And clearly witness Dauphinais fumbles here with his “Hail Mary Play”  
18 analogy. Of course there are risks to any generation addition. There is no such thing  
19 as a perfectly hedged generation addition. For example, a fossil generation unit also  
20 would be exposed to fuel and emission assumption forecasts as well as load and  
21 resource plan risks. Were FPL to adopt witness Dauphinais's view, the Company could  
22 not move forward with any new generation addition over concern of the potential risks.  
23 The fact of the matter is that FPL, with FPSC approval, has been making smart

1 generation additions for many years that have driven toward a cleaner, more efficient  
2 system that also has resulted in low electric rates and customer bills. FPL's customers  
3 have benefitted from these decisions and the FPL SolarTogether Program represents  
4 the next evolution of bringing cost-effective clean energy to FPL customers and the  
5 State of Florida as a whole.

6 **Q. How does witness Dauphinais's alleged subsidy characterization compare to the**  
7 **net metering subsidy you highlighted in your rebuttal?**

8 A. Witness Dauphinais's subsidy claims and calculations are really opportunity cost  
9 comparisons between two alternatives and thus not comparable to the cross-  
10 subsidization discussion presented in my rebuttal. The inherent design of net metering  
11 creates a cross-subsidy, that is, those who do not participate are burdened with costs.  
12 FPL provided an estimate of the value of that cross-subsidy by assuming 1,490 MW of  
13 net metering solar were added to the system instead of FPL SolarTogether solar. This  
14 was intended to demonstrate that FPL SolarTogether compares quite favorably to net  
15 metering from the perspective of the general body of customers: the former offers net  
16 savings while the latter imposes a net cost. That was as far as the comparison was  
17 intended to go.

18 **Q. Witness Dauphinais states that FPL provided no evidence to support the net**  
19 **metering cross-subsidization claims presented in your rebuttal testimony. Is that**  
20 **true?**

21 A. FPL provided its calculations for the net metering cross-subsidization in its response  
22 to OPC's Seventh Request for Production of Documents No. 19, the relevant  
23 information from that response is attached as Exhibit MV-3. In the response, FPL

1 documents how the cross-subsidization values presented in rebuttal were calculated.  
2 FPL continues to believe that FPL SolarTogether and net metering complement one  
3 another providing customers with a variety of options. FPL SolarTogether has not been  
4 designed to replace customer investment in private net metered solar generation. As  
5 such, FPL has not analyzed potential load retention attributable to FPL SolarTogether.

6

7

#### IV. SETTLEMENT AGREEMENT

8

9 **Q. OPC witness Dauphinais contends that the Settlement Agreement should not be**  
10 **approved because it is non-unanimous and it does nothing to resolve OPC's**  
11 **concerns. How do you respond to this contention?**

12 A. Settlement agreements do not always resolve all issues raised by all parties. Rather,  
13 settlement agreements are the outcome of negotiations reflecting the solutions the  
14 settling parties are willing to accept. The Commission is the sole determiner of whether  
15 that settlement agreement is in the public interest. My understanding is that settlement  
16 agreements need not be joined by OPC as a precondition for approval. OPC's view of  
17 the Settlement Agreement is not the issue; the issue is whether the Commission believes  
18 the Settlement Agreement serves public interest.

19 **Q. On what basis should the Commission approve the Settlement?**

20 A. The Commission should approve the Settlement based on a finding that the agreement  
21 is in the public interest. In addition to all of the benefits of the FPL SolarTogether  
22 Program already demonstrated by FPL, the Commission's approval of the agreement  
23 would recognize the significant improvements to the Program offered by the settling

1 parties through the addition of a new 37.5 MW low-income carve-out. This  
2 improvement will allow those most financially disadvantaged the opportunity to lower  
3 their energy bills while joining others to expand the use of solar in Florida.

4 **Q. Does this conclude your supplemental rebuttal testimony?**

5 A. Yes.

1 BY MS. MONCADA:

2 Q Mr. Valle, in connection with that testimony,  
3 did you submit exhibit MV-3?

4 A Yes, I did.

5 Q Do you have any changes to that exhibit?

6 A I do not.

7 Q Thank you.

8 MS. MONCADA: Mr. Chairman, MV-3 has been  
9 identified on staff's list as Exhibit 29.

10 BY MS. MONCADA:

11 Q Mr. Valle, did you prepare a summary of your  
12 supplemental testimony?

13 A I did.

14 Q Could you please provide that summary to the  
15 Commission?

16 A Sure. Good afternoon, Chairman Clark and  
17 Commissioners. I'm pleased to be back here again today.  
18 The purpose of my supplemental rebuttal testimony is to  
19 refute the supplemental testimony of OPC Witness  
20 Dauphinais related to the demonstration of need program  
21 risk allocation and settlement agreement.

22 Contrary to Witness Dauphinais' assertion,  
23 FPL's SolarTogether meets three broad needs while  
24 providing additional benefits to customers. First, the  
25 program was designed to meet a customer need that has

1 been growing over the past several years, and that is  
2 for direct participation in additional renewables as  
3 described in my testimony. Second, SolarTogether meets  
4 an economic need that is a cost-effective program that  
5 is projected to generate net savings for the both  
6 participants and general body. And, third, the program  
7 also meets a resource need in that it adds capacity that  
8 will defer future resource additions, including  
9 fossil-fuel generation.

10 We designed this program to ensure that it  
11 does not place undue risk on the general body. In the  
12 mid fuel/mid CO2 scenario, the program saves the general  
13 body of customers 112 million. If the cost of fuel  
14 and/or CO2 ends up being higher than projected, a case  
15 that we have not talked much about, the program will  
16 save customers even more. And if the cost of fuel  
17 and/or CO2 are lower than projected, the program in a  
18 vacuum may have a net cost, but overall the worst-case  
19 scenario for the program, the customer's overall bill  
20 will be significantly lower. Further, in every  
21 scenario, this program brings additional benefits to the  
22 general body in the form of fuel diversity, lower  
23 emissions and instate economic impact such as local  
24 jobs.

25 Finally, I'd be remiss if I did not note that

1 in addition to all of these benefits of the FPL  
2 SolarTogether program, the proposed settlement we  
3 developed with the fellow signatories include a  
4 37-and-a-half megawatt carve-out for thousands of  
5 low-income customers to participate directly in solar.  
6 No other solar program in Florida or elsewhere is as  
7 inclusive as SolarTogether. In summary, the program  
8 supports adding more solar to the grid,  
9 cost-effectively, increases fuel diversity, meets a  
10 strong customer demand, and expands access to solar for  
11 customers who cannot participate today.

12 For these reasons and more, we believe the  
13 program and the proposed settlement tariff are in -- are  
14 very much in the public interest.

15 This concludes my summary and I'm happy to  
16 take your questions.

17 MS. MONCADA: Thank you, Mr. Chairman. Mr.  
18 Valle is available for cross.

19 CHAIRMAN CLARK: Mr. Rehwinkel.

20 MR. REHWINKEL: Thank you, Mr. Chairman.

21 EXAMINATION

22 BY MR. REHWINKEL:

23 Q Hello again, Mr. Valle.

24 A Hi.

25 Q Can I get you to turn to page 12 of your

1 **supplemental rebuttal?**

2 A Yes, I'm there.

3 Q So section IV, roman numeral IV of your  
4 testimony, is approximately a page of testimony on the  
5 settlement agreement, is that right?

6 A Yes.

7 Q Okay. Now, you say on line 12, settlement  
8 agreements do not always resolve all issues raised by  
9 all parties. Do you see that?

10 A Yes.

11 Q Now, what is your basis for saying that?

12 A It is my understanding that settlement  
13 agreements are viable or still done if some of the  
14 parties who have different opinions at the start of a  
15 docket can come together on some common ground, that you  
16 do not need all of the parties to reach a settlement  
17 agreement.

18 Q Is that a legal analysis you've made or is  
19 that a legal analysis that someone has given you?

20 A That is my understanding. I'm not a lawyer,  
21 but it was informed by some of our team.

22 Q Okay. Can you read to me line 12 through line  
23 15, starting with the word, rather?

24 A Sure. Rather settlement agreements are the  
25 outcome of negotiations reflecting the solutions the

1 settling parties are willing to accept. Would you like  
2 me to keep going?

3 Q No. That's good right there. How many  
4 settling parties -- I think we did this yesterday, but  
5 is it correct that of the settling parties that you  
6 refer to here, only one of them is a customer?

7 A That's correct.

8 Q Okay. And was the customer account that we  
9 have in the record here, 4,961,330?

10 A Yes.

11 Q Okay. So would it be fair to say that  
12 4,961,329 FPL customers are not represented by a  
13 signatory to this agreement?

14 A That's correct. The only customer we've  
15 already identified is Walmart.

16 Q Okay. No, have you done an analysis, or been  
17 given an analysis, that the public interest can be  
18 represented by one out of 4,961,329 customers of a  
19 utility?

20 A Again, I'm not a lawyer, but discussing with  
21 our counsel, we have talked through public interest in  
22 how to meet that need and that was part of what I  
23 included in my summary.

24 Q Okay. Does the fact of the signatory to the  
25 settlement agreement indicate that 4,961,329 customers

1 **have indicated their willingness to accept this**  
2 **settlement agreement?**

3 A No. I would say that the settlement agreement  
4 reflects that the parties, the parties that were part of  
5 this docket from the outset had reached some common  
6 ground overall, A, in that the SolarTogether program  
7 made sense for customers and then, B, a low-income  
8 element, would further enhance that program and enable  
9 greater access for customers. That was the basis of the  
10 settlement agreement.

11 **Q Is it your understanding the Office of Public**  
12 **Counsel statutorily represents the 4,961,329 customers**  
13 **who are not signatories to the settlement agreement?**

14 A It is my understanding that the Office of  
15 Public Counsel represents customers broadly in Florida.  
16 I would add, you know, as a part of this program as I've  
17 described, we are also as the utility responsible for  
18 prudently planning the system and bringing forward  
19 programs we think makes sense for customers.

20 Certainly we've had a lot of dialogue with  
21 many, many customers for this program. Walmart provides  
22 a unique perspective from the settling parties in that  
23 there is a Walmart in every state in this country and  
24 they certainly have a very sophisticated view of energy  
25 and what they're trying to achieve and what others are

1 trying to achieve in the industry. And then Vote Solar  
2 and SACE bring the perspective of advocacy groups on  
3 solar energy again across the country. So, yes, I agree  
4 that Public Counsel is representing the customers, but  
5 the other parties in this agreement certainly have a  
6 broad view, as well, as what the customers are  
7 interested in.

8 **Q Okay. And you would agree with me that the**  
9 **Public Counsel was not advised of the settlement**  
10 **agreement until it was signed?**

11 A I do not. I have had subsequent  
12 communications since yesterday on the sequence of  
13 events. As I mentioned yesterday, I was not directly  
14 involved in these conversations with any of the parties  
15 in the settlement agreement.

16 **Q But you would agree that the settlement**  
17 **agreement that was filed was signed before the Public**  
18 **Counsel was made aware that there was settlement**  
19 **negotiations going on with the settling parties, is that**  
20 **right?**

21 MS. MONCADA: Mr. Chairman, I just want to  
22 assert here a light objection that I think these  
23 questions are not relevant to the issues in the  
24 case. However, I will -- I understand we'll give  
25 Mr. Rehwinkel a little bit of latitude to ask the

1 questions, in particular because I'm interested in  
2 not leaving a misimpression here about what  
3 happened.

4 CHAIRMAN CLARK: Yeah, and I kind of want to  
5 get on the record, too -- but if the witness knows  
6 the answer, the answer is yes or no. I mean, I  
7 think you all are trying to drag this thing -- both  
8 of you are trying to drag this thing. Answer the  
9 question. Give him a yes or no answer.

10 MR. REHWINKEL: We're real close to being done  
11 here.

12 CHAIRMAN CLARK: Good.

13 THE WITNESS: In the interest of expediency, I  
14 will convey what I know has been communicated to me  
15 and I can corroborate some of this because, as the  
16 program designer, you know, going to the phases and  
17 testimony, I was generally aware of what was going  
18 on, but -- so my understanding is that in August we  
19 attempted to gauge OPC's interest in talking but  
20 concluded that OPC didn't seek go to any further.

21 Subsequently, in December -- excuse me -- in  
22 September, FPL entered into discussions with  
23 Walmart, Vote Solar and SACE. And ultimately FPL  
24 reached settlement with these three parties. We  
25 did put the agreement in front of OPC in October

1 and entered into an NDA. So I can't speak to the  
2 specifics of those discussions other than to say  
3 they were substantive discussions about matters of  
4 this case, but ultimately not fruitful. So the  
5 settlement was filed on October 9th with the three  
6 parties, but we have continued to engage OPC since  
7 then.

8 BY MR. REHWINKEL:

9 **Q One final question. In August, as what the**  
10 **scenario that you've laid out, you could not have and**  
11 **did not tell the Public Counsel you were talking to the**  
12 **three parties that you ultimately signed with, correct?**

13 A I cannot substantiate that, not having been a  
14 part of that conversation.

15 **Q You don't have any knowledge that you were?**

16 A I do not know, at the time.

17 MR. REHWINKEL: Okay. Mr. Chairman, those are  
18 all the questions I have. Thank you.

19 CHAIRMAN CLARK: Thank you, Mr. Rehwinkel.  
20 Mr. Moyle.

21 MR. MOYLE: We have no questions.

22 CHAIRMAN CLARK: All right. Okay. Let's move  
23 along to staff. Mr. Trierweiler.

24 MR. TRIERWEILER: Yes, Chairman. We have two  
25 of the follow-up questions that were passed by Mr.



1 actual bill impact to the non-participating  
2 customers, the general body of ratepayers, would be  
3 modest annually on an annual basis before the  
4 savings actually occurs, but this approach that FPL  
5 is proffering for us does change the inherent  
6 approach to community solar and could potentially  
7 be petitioned by other utilities in our state who  
8 do not have the same size, scale and portfolio that  
9 FPL has in the instant case. Why should this  
10 Commission accept the proposal, from a policy  
11 perspective?

12 THE WITNESS: I mean, I think from a policy  
13 perspective, innovation -- you know, there's  
14 nothing -- you know, innovation in and of itself is  
15 not, you know, going against the policy of the  
16 state. I think as I laid out in my direct, we have  
17 been involved in kind of how we've been recovering  
18 solar over the years. So it's been our view that  
19 this is certainly within the jurisdiction of the  
20 Commission to approve a program like this. The one  
21 thing that I would say that separates our  
22 program -- you were right, Commissioner. I think  
23 you called it earlier the first of its kind to one  
24 of the other witnesses.

25 I think, frankly, that's part of the beauty of

1           it and what has separated it out from any of the  
2           other programs, because we have tied -- because we  
3           have gone out and understood this demand to be  
4           customers of all shapes and sizes want to go a  
5           hundred percent solar, but then they're also  
6           looking for some certainty on recovery over time.  
7           They're happy to pay a premium and they understand  
8           they have to work to get there, but they're looking  
9           for some certainty they will ultimately get to a  
10          payback because their belief is that renewables  
11          ultimately will save them money and if they did a  
12          rooftop system, for example, if they could do it  
13          for their place of business or residence, that they  
14          would ultimately get to those benefits.

15                 So the tying of those two things together,  
16          what separates out our program, and also makes it  
17          unique, but as we've talked about a lot myself and  
18          other witnesses, we think there's enough mechanisms  
19          in place to protect the general body and that the  
20          overall impact to them is modest.

21                 COMMISSIONER BROWN: But that may not be the  
22          case for other utilities of smaller scale in the  
23          state.

24                 THE WITNESS: Well, I go back to the overall  
25          cost-effectiveness of solar. And I agree, if you

1 saw another program like this, the mechanics may be  
2 the same, but the components, the pricing  
3 components may be different. Would another utility  
4 in the state be able to generate as much  
5 cost-effective benefits as FPL? It's not a  
6 function of size. It's a function of efficiency of  
7 system. Right. So if a solar facility was placed  
8 in a different system that was less efficient, it  
9 may, on a megawatt-for-megawatt basis generate more  
10 CPVRR than our projects do on our system. And with  
11 more CPVRR per site, they would have more benefits  
12 to then decide how to allocate between participants  
13 and non-participants.

14 COMMISSIONER BROWN: True. Follow-up on the  
15 payback period. FPL uses a seven-year payback  
16 period for participating customers. I think  
17 earlier it was -- they were talking about, and  
18 earlier yesterday, a 10- to 12-year payback, I  
19 guess, for residential customers. Someone cited  
20 that. What happens if you extend the seven-year  
21 payback period a few years out?

22 THE WITNESS: So this is where we spent a lot  
23 of time debating with customers over the last few  
24 years as to what was the right number, and there is  
25 no perfect mathematical formula --

1           COMMISSIONER BROWN: They want it right away.

2           THE WITNESS: Well, there's some that do and  
3 some that turned us down because they expected a  
4 day-one payback. So it's interesting. Most of us  
5 in this room live in the utility world where we  
6 plan for 30 years, but a lot of retail customers  
7 and residential customers and small business  
8 customers do not think in 30-year terms. They  
9 think in ten-year payback, or they think of their  
10 business in ten-year horizons or 15-year horizons.  
11 And, therefore, paybacks that are farther out like  
12 that start to become not as attractive and they're  
13 not as interested in the program.

14           We heard a lot from customers, the large  
15 customers in particular, that five-year paybacks  
16 are kind of what they were looking for. Someone in  
17 first-year paybacks or second-year paybacks, some  
18 were comparing these -- this program against energy  
19 efficiency investments, which may pay back in 18  
20 months sometimes, if you were to upgrade a chiller  
21 or something like that.

22           So that's kind of their perspective. And the  
23 other thing on the back end of it, 10 to 12 years  
24 is where rooftop is today, but rooftop solar is  
25 going to become more and more competitive. We

1           didn't want to set it at ten years, for example,  
2           and two years into the program, our program is now  
3           less attractive than rooftop and many customers  
4           bail out of our program to go do rooftop solar on  
5           their own. So it was finding that sweet spot of  
6           how can we make this attractive enough to generate  
7           enough interest in a program, but not set the  
8           benefits too aggressive where we couldn't get an  
9           appropriate split between the participants and then  
10          the general body of customers.

11                    COMMISSIONER BROWN: Is seven years  
12          reasonable, in your opinion?

13                    THE WITNESS: It is.

14                    COMMISSIONER BROWN: I mean, I know you're  
15          proposing it, but some of the participating  
16          customers have -- I assume that they have solar  
17          arrays on their property -- on their properties,  
18          and I'm sure there's a different payback period.  
19          Are you familiar with what that would be?

20                    THE WITNESS: I don't think many of the  
21          preregistered customers have solar arrays already  
22          on their facilities. I know a number of them are  
23          contemplating that and comparing us against rooftop  
24          systems at the time we started talking to them and  
25          ultimately decided to go with our program, not just

1           because of the payback period, but also the  
2           flexibility. They really liked the flexibility and  
3           the portability for businesses. If you're a  
4           big-box retailer, for example, and you shut down a  
5           store here, but open up a store in a different  
6           market within our territory, you can still shift  
7           this around, or if you're a residential customer  
8           that moves. So I think it was this combination of  
9           flexibility and payback that has made it really  
10          attractive.

11                    COMMISSIONER BROWN: And they can tout that  
12                    they're a hundred percent renewable?

13                    THE WITNESS: Exactly, and on day-one. And to  
14                    the point I made yesterday, you were to wait for  
15                    FPL to get to -- and not that any of us even have a  
16                    view, our ten-year site plan doesn't even go this  
17                    far out, a hundred percent renewables for the  
18                    overall system may take 30 years for us to get  
19                    there, and they're looking for some ways to get  
20                    there today. And this program very quickly allows  
21                    them to get there.

22                    COMMISSIONER BROWN: Thank you.

23                    CHAIRMAN CLARK: Any other questions?

24                    Ms. Moncada.

25                    MS. MONCADA: Thank you.

1 EXAMINATION

2 BY MS. MONCADA:

3 Q Mr. Valle, you agreed earlier that the  
4 Southern Alliance for Clean Energy is one of the  
5 signatories to the settlement, is that right?

6 A Yes.

7 Q Do you know if their members are customers of  
8 FPL?

9 A Yes, they do have members in our service  
10 territory.

11 Q Do you know if Vote Solar's members are  
12 customers of FPL?

13 A Yes. Vote Solar also has members in our  
14 service territory.

15 Q How many customers already have preregistered  
16 for the program?

17 A 206.

18 Q Okay. And of those subscribers, can you tell  
19 me what type -- what type of entities they are?

20 A There are big-box retailers. There are school  
21 districts. There are municipals. There are cities.  
22 There's counties. There are small businesses who are  
23 still demand customers. There are large industrial  
24 customers, as well, who have major operations in  
25 Florida.

1           Q     So thank you for that. Just a couple of those  
2 you mentioned, school districts, municipalities,  
3 counties, do you know if those subscribers have their  
4 own constituents?

5           A     Yes --

6           MR. REHWINKEL: I'm going to object to this as  
7 being outside the scope of cross and it's -- on  
8 this basis: Is my questions were only as to  
9 signatories and Mr. Valle testified, without a  
10 doubt, that there was only one signatory that  
11 represented customers and --

12          CHAIRMAN CLARK: I'll sustain the objection.

13          MS. MONCADA: Mr. Chairman, if I could, Mr.  
14 Rehwinkel's questions made it seem as though  
15 there's only one customer in the State of Florida  
16 in FPL's territory who is in support of the  
17 settlement. I would like to explore that.

18          CHAIRMAN CLARK: His question was specifically  
19 the signatories to the agreement. Objection  
20 sustained.

21          MS. MONCADA: Okay. No further questions.

22          CHAIRMAN CLARK: Okay. All right. Still your  
23 witness.

24          MS. MONCADA: Would like to move MV-3, which  
25 has been marked as Exhibit No. 29 on the list.

1 CHAIRMAN CLARK: So ordered.

2 (Whereupon, Exhibit No. 29 was entered into  
3 the record.)

4 MS. MONCADA: Pardon me. Would like to excuse  
5 Mr. Valle.

6 CHAIRMAN CLARK: Your witness is excused.

7 MS. MONCADA: Thank you.

8 CHAIRMAN CLARK: Thank you, Mr. Valle.

9 THE WITNESS: Thank you.

10 CHAIRMAN CLARK: Okay. I believe that gets  
11 everybody. Mr. Trierweiler.

12 MR. TRIERWEILER: Mr. Chairman, I have two  
13 housekeeping issues. Just to be sure the -- first  
14 of all, is the testimony and CV of witness Terry  
15 Deason and JTD-1. I may have just missed it -- it  
16 went in? Good.

17 MS. MONCADA: Yes.

18 MR. TRIERWEILER: Okay. Now, the second one I  
19 know is not in -- Candace, could you hand out 62,  
20 please? I've been provided with a nonconfidential  
21 errata of Witness William Brannen, which is a  
22 confidential deposition. This errata is  
23 nonconfidential and has not been shared previous to  
24 this occasion. I would like to move it in as an  
25 update to Exhibit 62 on staff's CEL.

1 CHAIRMAN CLARK: This is basically an errata  
2 to Exhibit 62, correct?

3 MR. TRIERWEILER: That is correct.

4 CHAIRMAN CLARK: Okay. So ordered.

5 (Whereupon, Exhibit No. 62 was entered into  
6 evidence.)

7 CHAIRMAN CLARK: All right. Staff, do you  
8 have any other matters that need to be addressed?

9 MR. TRIERWEILER: Post-hearing briefs are due  
10 June 30th, 2020.

11 CHAIRMAN CLARK: June -- January.

12 MR. TRIERWEILER: What did I just say?

13 CHAIRMAN CLARK: June.

14 MR. TRIERWEILER: June. That was a long  
15 vacation I was looking forward to taking.

16 CHAIRMAN CLARK: Let's go with January.

17 MR. TRIERWEILER: I appreciate the correction.  
18 January 30th, 2020. Briefs should be no longer  
19 than 40 pages and position summaries should be no  
20 more than 50 words offset with asterisks.

21 CHAIRMAN CLARK: All right. We're all in  
22 agreement. Very good. Commissioner Graham said if  
23 I had kept this summary testimony to three minutes,  
24 we would have been out of here almost ten minutes  
25 ago.

1           I think you all did a great job. Thank you  
2           very much for your cooperation and thank you for  
3           your tolerating me today getting through this first  
4           hearing and I hope everybody has a great week.

5           Any member of the parties -- any parties have  
6           any other issues? If not, we stand adjourned.

7           Thank you.

8                         (Proceeding concluded at 2:53 p.m.)

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CERTIFICATE OF REPORTER

STATE OF FLORIDA )  
COUNTY OF LEON )

I, DANA W. REEVES, Professional 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' attorney or counsel connected with the action, nor am I financially interested in the action.

DATED THIS 21st day of January, 2020.



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DANA W. REEVES  
NOTARY PUBLIC  
COMMISSION #FF968527  
EXPIRES MARCH 22, 2020