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BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION

In the Matter of:

Petition for rate increase  
by Tampa Electric Company.

DOCKET NO. 20240026-EI

Petition for approval of 2023  
depreciation and dismantlement  
study, by Tampa Electric Company.

DOCKET NO. 20230139-EI

In re: Petition to implement 2024  
generation base rate adjustment  
provisions in paragraph 4 of the  
2021 stipulation and settlement  
agreement, by Tampa Electric Company.

DOCKET NO. 20230090-EI

VOLUME 3 - PAGES 504 - 764

PROCEEDINGS: HEARING

COMMISSIONERS  
PARTICIPATING: CHAIRMAN MIKE LA ROSA  
COMMISSIONER ART GRAHAM  
COMMISSIONER GARY F. CLARK  
COMMISSIONER ANDREW GILES FAY  
COMMISSIONER GABRIELLA PASSIDOMO

DATE: Tuesday, August 27, 2024

TIME: Commenced: 8:00 a.m.  
Concluded: 7:25 p.m.

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

TRANSCRIBED BY: DEBRA R. KRICK  
Court Reporter and  
Notary Public in and for  
the State of Florida at Large

APPEARANCES: (As heretofore noted.)

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1	EXHIBITS		
2	NUMBER:	ID	ADMITTED
3	17	As identified in the CEL	604
4	236-238	As identified in the CEL	605
5	281	As identified in the CEL	605
6	438	As identified in the CEL	605
7	51	As identified in the CEL	605
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1 P R O C E E D I N G S

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

4 CHAIRMAN LA ROSA: All right. As we get  
5 settled back in, I think Ms. Wessling was in her  
6 line of questioning, and I will turn it back over  
7 to you.

8 MS. WESSLING: Thank you, Mr. Chair.

9 Whereupon,

10 KAREN SPARKMAN

11 was recalled as a witness, having been previously duly  
12 sworn to speak the truth, the whole truth, and nothing  
13 but the truth, was examined and testified as follows:

14 EXAMINATION continued

15 BY MS. WESSLING:

16 Q Hi again, Ms. Sparkman.

17 A Hi.

18 Q All right. So I would like to start this next  
19 line of questioning talking about bad debt. That's one  
20 of the topics that you cover in your testimony, correct?

21 A Yes. That's correct.

22 Q All right. So if we could first go to page 48  
23 of your direct testimony, which is Case Center No.  
24 C2-129. Did that pop up for you?

25 A Yes. Thank you.

1 Q Great.

2 So without reading it into the record or  
3 anything, but lines 10 through 22 are part of your  
4 discussion in your testimony about bad debt, among other  
5 things, correct, bad debt specifically on line 16?

6 A Yes.

7 Q And on those lines, 15 and 16, I should say,  
8 you specifically say that Tampa Electric expects a  
9 downward trend in the bad debt expense beginning in  
10 2024, is that right?

11 A Yes. When I prepared that -- the document,  
12 that was my understanding. That's correct.

13 Q Sure. And this was filed on April 2nd of  
14 2024, right?

15 A Yes.

16 Q Okay. And I would like to identify OPC  
17 Exhibit 56, which I believe is 281 on the CEL.

18 All right. Do you see that exhibit?

19 A Yes, I do.

20 Q All right. And does it show up on that  
21 computer in front of you?

22 A Not yet. And I just -- I just want to clarify  
23 that in my document that you just had up, I noted that  
24 the downward trend should begin in 2024. Begin in 2024.

25 Q Got it.

1           And -- so this exhibit that I just pulled up,  
2   OPC 56, it's not showing up on the --

3           A     Not yet.

4           Q     -- computer in front of you? Okay. Can you  
5   see it up on that screen behind the Commissioners?

6           A     Vaguely, but I -- I have had -- this bad debt  
7   numbers also that I can look -- I can see it now. Yeah.

8           Q     Oh, okay. Good.

9                     All right. So this is Interrogatory No. 26.  
10   This is a response to OPC's first set of interrogatories  
11   No. 26, and this is the one that you sponsored, correct?

12          A     Correct.

13          Q     Okay. And this interrogatory was filed, or  
14   answered on April 11th of 2024?

15          A     That's correct.

16          Q     All right. So this is shortly after the  
17   testimony is filed. And in this exhibit -- well,  
18   towards the bottom, this is -- the text here is very,  
19   very similar to, if not identical to, the testimony in  
20   -- or the section of your testimony we just referenced;  
21   would you agree?

22          A     Yes, I would say it's similar.

23          Q     Okay. And similarly in this exhibit, about  
24   the middle of that paragraph, you say: However, we  
25   anticipate a downward tread -- trend in bad debt

1 expense, beginning in 2024; right?

2 A Yes. That's correct.

3 Q Okay. All right. And looking at MFR C-11,  
4 that's one of the MFRs that you cosponsor, is that  
5 right?

6 A Yes. That's correct.

7 Q Okay. And that's going to be Case Center  
8 J258.

9 All right. And I know I can't read it up on  
10 that screen, but you said you have a copy of that in  
11 front of you, Ms. Sparkman?

12 A Yes, I have C-11.

13 Q Okay. Great.

14 And this MFR details the actual bad debt  
15 writeoffs and the bad debt factor used for 2020 through  
16 2023, as well as the budgeted bad debt writeoffs and bad  
17 debt factors for 2024 and 2025, is that right?

18 A That's correct. Yes.

19 Q Okay. And I know we referenced the deposition  
20 you gave earlier, but one of the late-filed exhibits to  
21 your deposition was created in response to some  
22 questions about bad debt that took place during your  
23 deposition. Do you remember that?

24 A Yes.

25 Q Okay. If we could -- I would like to identify

1 OPC 11, please, which is CEL Exhibit 236. Do you see  
2 that in front of you?

3 A Yes, I do.

4 Q Okay. Great.

5 And there is nothing confidential about this  
6 exhibit?

7 A No.

8 Q Okay. And this exhibit indicates that when  
9 Tampa Electric filed MFRs, as well as your testimony on  
10 April 2nd of 2024, Tampa Electric expected the 2024 bad  
11 debt writeoffs to be six million, one hundred -- \$6.148  
12 million, is that accurate?

13 A That is accurate.

14 Q Okay. And the bad debt -- the 2024 bad debt  
15 factor to be 0.224 percent?

16 A That's correct.

17 Q And at this point in time, as we sit here  
18 today, Tampa Electric expects the 2024 bad debt writeoff  
19 to have increased to 9.85 million, is that right?

20 A So the number that you are referencing is  
21 really my own personal reforecast that I use to help me  
22 gauge different levers in the business, and so that's  
23 not the number that we -- that we use. That's a number  
24 that, for me, changes every single month depending on,  
25 you know, the bad debt trends.



1           And, you know, when I think about bad debt, I  
2 look at it from a broader scope. I don't -- I don't  
3 look at it from the dollar perspective. I think with  
4 bad debt, it's important that you look at the percentage  
5 to revenue. And so for us, we are generally trending  
6 between two-tenths and four-tenths of one percent. And  
7 so, you know, right now, our bad debt percent factor is  
8 at three-tenths of one percent, and the national average  
9 is at seven-tenths of one percent, while we are at  
10 three-tenths of one percent.

11           **Q     All right. So the question that I asked was**  
12 **whether or not Tampa Electric now expects the 2024 bad**  
13 **debt writeoff to be 9.85. That number, 9.85 million,**  
14 **that's the number that's included in this late filed**  
15 **exhibit, correct?**

16           A     That is the number that is listed as my own  
17 personal reforecast, but it is not the number that was  
18 included in C-11.

19           **Q     And, again, you are the Vice-President of**  
20 **Customer Experience for Tampa Electric, correct?**

21           A     Yes, I am.

22           **Q     And you are the witness responsible for the**  
23 **bad debt issue in this rate case?**

24           A     I am responsible for bad debt.

25           **Q     And this late-filed exhibit was dated 20 days**

1     **ago, is that correct?**

2           A     Yes.  And I would offer that if today you ask  
3     me to refresh the bad debt number, I would give you a  
4     lower number than that, because now we have July  
5     actuals, and the bad debt number that I would offer from  
6     my own personal refresh is lower than the number you  
7     have just noted.

8           **Q     But this exhibit says 9.855 million as of**  
9     **August 2nd -- August 6th of 2024.**

10          A     That is the date that it was prepared, but it  
11     was not as of August 6th.  It was a previous date, and  
12     it's a moment in time.

13          **Q     All right.  This document also states that the**  
14     **2024 -- well, strike that.  Let me rephrase that**  
15     **question.**

16                   **The \$9.855 million number is approximately 60**  
17     **percent higher than the number that was originally**  
18     **included on MFR C-11, would you agree?**

19          A     I will just assume your math is correct, yes.

20          **Q     Okay.**

21          A     And I would offer, though, even at the 9.8  
22     million, that is still three-tenths of one percent,  
23     which the national average is at seven-tenths of one  
24     percent.  So we are well, well, well below the national  
25     average.

1 Q And that national average information that you  
2 are referencing, that's not included in your direct  
3 testimony?

4 A It is not.

5 Q And there is no exhibit to that effect, test  
6 year testimony?

7 A It is not. It's a Chartwell benchmarking.

8 Q Okay. And were you present earlier for Mr.  
9 Collins' testimony, or have you been listening?

10 A Yes, I have been listening.

11 Q Okay. And you are probably familiar, but  
12 within his testimony, he references that the requested  
13 rate increase for residential bills compared to 2024 is  
14 approximately 12 percent. Do you recall that?

15 A I don't recall that exact verbiage, but I will  
16 assume it's accurate.

17 Q Okay. So the number that's in this exhibit  
18 that we are discussing right now, this 9.855 million,  
19 you said, subject to check, you agree that that's a  
20 60-percent increase on what was originally filed,  
21 correct?

22 A Yes. At that point in time, yes, that's  
23 correct --

24 Q Okay.

25 A -- the three-tenths of one percent.

1           **Q     And per Mr. Collins' testimony, residential**  
2 **bills are expected to increase approximately 12 percent**  
3 **compared to 2024, correct?**

4           A     Yes.

5           **Q     However, within C-11, the original C-11, Tampa**  
6 **Electric expects that bad debt is going to decrease in**  
7 **2025, is that accurate?**

8           A     Yes. I am still very confident in the 2025  
9 figure.

10                    You know, there is a lot of components that go  
11 into bad debt. In 2022, there was a good amount of  
12 LIHEAP federal assistance that was provided to those  
13 customers that needed it. And then in 2023, that  
14 federal assistance was cut in half. And that was a  
15 direct correlation to the increase in bad debt in 2023.

16                    However, you know, we recognize and empathize  
17 that there is a small pocket of customers that are  
18 struggling with paying their bills, and we have really  
19 robust customer assistance options that we use even in  
20 the absence of federal assistance dollars. We have our  
21 Share Program that we use for those customers that are  
22 struggling to pay their bills.

23           **Q     And Tampa Electric was aware that that federal**  
24 **assistance was gone as of July of 2023, correct?**

25           A     I don't know that I was aware of that.

1 MS. WESSLING: I would -- this is an exhibit,  
2 it's already in evidence. It's exhibit -- let me  
3 double check here. Well, actually, I don't think  
4 this one is in evidence.

5 This -- I would like to identify OPC 213,  
6 which is -- I apologize, I don't know the hearing  
7 exhibit number for that one, but it's OPC 213.

8 BY MS. WESSLING:

9 Q And do you have that red binder up there?  
10 Actually, I don't see it.

11 A No.

12 Q One second.

13 A It was up here, but it's no longer up here.

14 MS. HELTON: And that would be Exhibit 438 on  
15 the CEL.

16 MS. WESSLING: I was just going to --  
17 (Inaudible) -- the witness a copy of this exhibit.

18 CHAIRMAN LA ROSA: Yeah. Yes. That's okay.

19 MS. WESSLING: And we will go get that binder  
20 so we have that again.

21 BY. MS. WESSLING:

22 Q All right. So, Ms. Sparkman, this is a  
23 confidential document, so let's just keep that in mind.

24 Were you at the July 2023 board meeting for  
25 Tampa Electric?

1           A     I would have to look at my calendar, but  
2     likely --

3           Q     Okay.

4           A     -- yes.

5           Q     All right. And there is a sentence in the  
6     middle -- in the paragraph that begins with the word  
7     "unfortunately". The last -- the second to last  
8     sentence begins with the word "these". Do you see that?

9           A     These? Yes.

10          Q     Okay. If you could just read that one  
11     sentence to yourself first, and then let me know if  
12     that's something that can be read aloud.

13          A     Yes.

14          Q     So all right. So that -- is that something  
15     that can be read aloud?

16          A     Yes.

17          Q     Okay. Would you mind reading that, please?

18          A     These higher bills are occurring at a time  
19     when much of the financial assistance monies available  
20     following COVID have disappeared, putting pressure on  
21     customers' ability to pay, increasing the risk of bad  
22     debt, and increasing the noise surrounding rates and  
23     bills. We will discuss this in more detail during the  
24     meeting.

25          Q     Okay. Thank you very much.

1 All right. And now I would like to discuss  
2 the exhibit that is already in evidence. This is  
3 Exhibit 245 on the Comprehensive Exhibit List, which is  
4 -- was originally identified as OPC 20. And I will get  
5 you a copy. Just one second.

6 All right. Ms. Sparkman, are you familiar  
7 with this particular document?

8 A I am sorry, remind me which one you are  
9 looking at, because he just handed the book. I don't  
10 know where I am supposed to go.

11 Q Okay. So those folders, you can put aside.

12 A Okay.

13 Q And within the binder, there is some tabs. If  
14 you look for OPC 20.

15 A Okay. Thank you.

16 What's the date on this exhibit?

17 Q That's a good question. I don't -- I am not  
18 sure, but are you -- does it look familiar to you at  
19 all? And take as much time as you need to take a look.

20 A Not -- not particularly.

21 Q Okay. That's all right.

22 A Do you know what date it was presented?

23 Q I am sorry, what was that?

24 A Do you know what the approximate timeline is?

25 Q I believe it would have been around June of

1 2024. I believe that's what Mr. Collins stated, but --

2 A Okay.

3 Q -- if you don't remember, I am not asking you  
4 to --

5 A So at the time that this meeting occurred in  
6 June of 2024, I was actually at our customer hearings,  
7 so I would not have been present for this meeting.

8 Q Okay. Fair enough.

9 If you could turn to what's labeled as Bates  
10 page three.

11 A Of the same document?

12 Q Yes, of that same document.

13 A Okay.

14 Q There is a little three in the lower left  
15 corner. Do you see that page?

16 A Yes.

17 Q Okay. And Mr. Rehwinkel already asked Mr.  
18 Collins some questions about this, but as far as it  
19 relates to you specifically, there is four boxes on this  
20 page, and I am pretty sure that the box that I want to  
21 discuss, which is the upper left box, that Mr. Collins  
22 already read this particular language into the record.

23 But first, if you could just read that to  
24 yourself, and let me know whether or not you agree with  
25 the statements that are contained in that box.



1           A     I think I would agree in principle.  Just  
2  generally, I would agree --

3           Q     Okay.

4           A     -- it's correct.

5           Q     All right.  So it's your position that bad  
6  debt is an indication of customers, for whatever reason,  
7  opting not to pay their bill promptly?

8           A     Repeat that for me again.

9           Q     It's your position that bad debt is an  
10 indication of customers, for whatever reason, opting not  
11 to pay -- to pay their bill promptly?

12          A     For whatever reason, I -- I guess that's  
13 generally true.  Yes.  Bad debt would be an indication  
14 that a customer didn't -- didn't pay their bill.

15          Q     Promptly?

16          A     Promptly, yes.

17          Q     And not being able to afford to pay their bill  
18 is one of the potential reasons why a customer may not  
19 pay their bill promptly, would you agree?

20          A     I -- I would agree, and I would add to that  
21 that I have been in the energy business for 24 years  
22 almost, all in customer service in progressively  
23 responsible roles, and I don't ever recall a time where  
24 there wasn't a pocket of customers that were struggling  
25 to pay bills.  That's always been the situation in my

1 entire career, that there is always a small percentage  
2 of customers that are struggling to pay their bills.

3 And that is why we have such a robust customer  
4 assistance program, and a team of professionals that is  
5 there to help our customers with payment arrangements,  
6 long-term installment plans, helping them find  
7 assistance other than federal assistance, for that very  
8 reason, to help those customers that have expressed an  
9 inability to pay.

10 **Q You referenced just -- it's just a particular**  
11 **group of customers who struggle to pay their bills. Let**  
12 **me ask you, would you agree that if bills go up in 2025,**  
13 **2026 and 2027, as requested by Tampa Electric, the**  
14 **number of those customers is going to increase?**

15 **A I'm -- I don't agree. On what -- on what**  
16 **basis or, like, what are the facts that would**  
17 **corroborate that?**

18 **Q If there are customers right now who struggle**  
19 **to pay their bills because of the current rate, you**  
20 **would agree there is a certain number of customers who**  
21 **fall into that category?**

22 **A Sure. In my entire 24 years, there have been**  
23 **customers that have struggled to pay their bills.**

24 **Q And if bills go up in 2025, 2026 and 2027, you**  
25 **don't agree that the number of customers who will**

1 **struggle to pay their bills will also increase?**

2 A I don't agree that I should make an assertion  
3 on customer behavior. I -- bills are going up in 20 --  
4 next year, and maybe the year after that. And, you  
5 know, as a customer, and how I prioritize my own  
6 household, I am not going to struggle to pay my bill.

7 So I think it's really about customers and  
8 their households, and how they are prioritizing their  
9 responsibilities in their households. And so I don't  
10 know that I can make such a statement just based on  
11 bills going up.

12 Q **And you were present at the customer service**  
13 **hearings, as we already addressed?**

14 A Yes.

15 Q **And some of the things that you heard**  
16 **customers say they had to prioritize were things like**  
17 **not running their air conditioning, correct?**

18 A Yes. I recall one customer saying that. Yes.

19 Q **And not paying for their child to be able to**  
20 **play sports?**

21 A Yes, there was a customer that said that.  
22 Yes.

23 Q **There were customers who complained about**  
24 **having to choose between paying for their medicine and**  
25 **paying their electric bill?**

1           A     There was a customer, too, that said that.  
2     Yes.

3           **Q     There were customers who complained about**  
4     **being able to feed their family or pay their electric**  
5     **bill?**

6           A     Yes.  And in my 24 years in energy, I can tell  
7     you that every single year, we have experience with  
8     customers that have those same scenarios.  And that is,  
9     again, why it's important to have a robust customer  
10    assistance plan to help those customers that have  
11    expressed an inability to pay, for those exact reasons  
12    you mentioned.

13          **Q     You also just said that it's a matter of**  
14    **prioritizing bills for those customers?**

15          A     It's a matter of prioritizing your household.  
16    Yes.

17          **Q     So if those customers just rearrange their**  
18    **priorities, they would be able to afford their -- pay**  
19    **everything?**

20          A     I don't know.  I --

21          **Q     Okay.  Nothing further.**

22          A     That's just such a broad statement.

23                   CHAIRMAN LA ROSA:  I'm sorry, you said --

24                   MS. WESSLING:  Nothing further.

25                   CHAIRMAN LA ROSA:  Okay.  All right.  Let's

1 move to Florida Rising/LULAC.

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

3 I am honored to have had many of the same  
4 ideas as my colleague, Ms. Wessling, so I am going  
5 to take a moment to try to make sure I am not  
6 retreading old ground.

7 CHAIRMAN LA ROSA: Sure.

8 THE WITNESS: Am I keeping the red book out?  
9 Am I keeping the red book out? Keep it out?

10 CHAIRMAN LA ROSA: If you do end up having  
11 questions, let's just make sure that the witness  
12 has your set of folders.

13 MR. LUEBKEMANN: Yeah.

14 EXAMINATION

15 BY MR. LUEBKEMANN:

16 Q Ms. Sparkman, do you have a copy of the  
17 confidential exhibits that were handed out yesterday?

18 A I am not sure. If you could tell me what --  
19 I -- I didn't get any from yesterday, so if you could  
20 hand them out to me, that would be helpful.

21 Q Coming right up.

22 A Oh, no worries. Thank you. In the binder?  
23 In the folders? Okay. There are some folders in here.

24 Q Yeah. See if you have got one that says 321C  
25 on it.

1           A     321C? Let me look. Yes.

2           Q     **Great. And we are not going there just yet.**  
3     **I just want to make sure you have got everything.**

4           A     Okay.

5           Q     **Okay. So good afternoon, Ms. Sparkman.**

6           A     Good afternoon.

7           Q     **Good to see you again.**

8           A     Likewise.

9           Q     **In your opening, you noted that TECO's**  
10    **customers demand more than just reliable service?**

11          A     Yes.

12          Q     **And you enumerated trust and convenience as**  
13    **some of the things that they demand?**

14          A     Yes.

15          Q     **And I couldn't help but notice, you did not**  
16    **mention affordability on that list, correct?**

17          A     I did not mention affordability, because, to  
18    me, affordability and price is part of that balance.  
19    And so, you know, customers expect us to manage their  
20    rates reasonably in the long-term, and price and  
21    affordability is just part of that component of what  
22    customers care about. Yes.

23          Q     **Sure. But you specified reliability, trust**  
24    **and convenience, and you did not specify affordability?**

25          A     I did not, because, like I stated earlier, is

1 that there is a small pocket of customers that have  
2 presented the inability to pay their bill. And for  
3 those customers, we work very, very closely with them to  
4 help find solutions.

5 **Q Okay. Thank you.**

6 MR. LUEBKEMANN: I am trying not to duplicate  
7 questions here. Hold with me for a second.

8 CHAIRMAN LA ROSA: Sure. No problem.

9 BY MR. LUEBKEMANN:

10 **Q Okay. If we could turn to MFR C-14. This is**  
11 **going to be master number J261. Just let me know when**  
12 **you are ready.**

13 A I am ready.

14 **Q Okay. Are you one of the sponsors for this**  
15 **MFR?**

16 A Yes.

17 **Q And what does this MFR show?**

18 A I believe that it shows subaccount number 909  
19 and 913, which is sales advertising expense and general  
20 advertising expense.

21 **Q And for the historical year 2023, which will**  
22 **be on the next page, J262, TECO's total jurisdictional**  
23 **advertising expenses were 1.51 million?**

24 A And for what year was that? I am sorry.

25 **Q That's historical year '23.**

1 A Let's see. Just a moment, please. Okay.

2 Q Okay. Could you confirm that the total  
3 jurisdictional advertising expenses were 1.15 -- 1.51  
4 million for 2023?

5 A So -- I am sorry, just to be clear, are you  
6 looking at -- what page are you on?

7 Q This is -- this will be Bates 41, or master  
8 J262, and I'm looking in line 14, column 3. And I  
9 should specify. When I say Bates, it's the TECO  
10 pagination of that MFR's page 41.

11 A Yeah. So I was just looking at the breakdown  
12 of those subheadings.

13 So 909 is customer education. I am not sure  
14 why it's -- the reason you are seeing confusion is  
15 because it's titled sales advertising expense, and 909  
16 is customer education.

17 Q So I -- if you -- if you scroll down to what  
18 is labeled line 14.

19 A Yes.

20 Q The title for that is total advertising  
21 expenses?

22 A Yes.

23 Q Okay. And the jurisdictional total, which is  
24 column 3 --

25 A Yes.



1 Q -- is 1.510 million?

2 A Yes.

3 Q Okay.

4 A And so that figure, though, is for 2023.

5 Q Correct. Yeah. I am just getting our  
6 baseline from the historical year.

7 A Okay.

8 Q But you confirmed that is the amount?

9 A Yes.

10 Q All right. If we could go back to the test  
11 year, '25, page four. And that same amount of total  
12 jurisdictional advertising expenses for the test year is  
13 3.75 -- 3.759 million?

14 A Yes, that's correct. And so part of that  
15 increase is due to customer education, so things like  
16 rate case communications, energy efficiency  
17 communications, conservation related communication. So  
18 all of the communication that is needed to meet the  
19 customers' needs and expectations around communications.

20 Q But to confirm, you said that is an increase?

21 A It is an increase. Yes.

22 Q And subject to check, it's an increase of  
23 about two-and-a-half times?

24 A So part of that -- only part of it is an  
25 increase on customer education. The other part of it

1 was an amount -- 1.4 million actually shifted over from  
2 another A&G as it looks like this is the function that  
3 best aligned with those dollars. And so part of it was  
4 a shift, and part of it is an increase due to customer  
5 communications. Yes.

6 Q But if I could redirect you to my question.  
7 If you just compare those two numbers, it's an increase  
8 of about two-and-a-half times over those two years?

9 A Yes.

10 Q Thank you.

11 In your testimony at page 50, which is master  
12 number C2131. You testify here, at lines three to six:  
13 The competitive nature of the Tampa market, with its  
14 rapid growth and limited number of advertising space on  
15 billboards and television, poses a significant challenge  
16 for our business.

17 Did I read that right?

18 A Yes. I am still zooming out. One moment,  
19 please. What line are you reading?

20 Q It should be lines three through six.

21 A That's correct.

22 Q And TECO is a regulated monopoly utility?

23 A TECO is a regulated utility.

24 Q So short of moving away, TECO customers don't  
25 have any choice about relying on TECO for electricity?

1           A     I guess they have the choice as to whether  
2 they want to move to Tampa or not. That's the choice.  
3 Yes.

4           Q     Fair enough.

5                     In your testimony on page 39, you state that  
6 **TECO's customer experience strategy continues to evolve**  
7 **to align with the changing expectations and needs of our**  
8 **customers --**

9           A     That is correct.

10          Q     -- is that right?

11          A     That is correct.

12          Q     And you elaborate on that -- on that effect --  
13 or to the effect that that includes adopting a more  
14 personalized approach to service using data analytics to  
15 gain insights into customer preferences, and using  
16 technology to enhance interaction and service delivery?

17          A     Yes, that is correct.

18                     So customers -- you know, the digital world is  
19 a basic expectation for customers. So the tools that  
20 they are using to access our website, customers depend  
21 on us to provide them with an easy way to navigate  
22 through our systems. And so when a customer is logging  
23 into the portal to pay their bill, or to look at their  
24 energy usage, they want to do it in an easy, convenient,  
25 quick way, and they expect that from us. It's a basic

1 expectation.

2 Q Sure.

3 And I don't want to stomp on your testimony,  
4 but I do want to call our attention back to the  
5 Prehearing Order, which directs you to give a yes or no  
6 answer first. I will try to make sure you get a chance  
7 to elaborate, and certainly, you will get redirect  
8 from --

9 A Yes.

10 Q -- your counsel. Okay.

11 To -- in order to implement these ideas, you  
12 talk about basically three buckets of spends for the  
13 customer experience, is that correct?

14 A Yes.

15 Q And those buckets would be customer  
16 digitalization, operational efficiency and optional  
17 customer programs?

18 A Yes.

19 Q And my colleague, Ms. Wessling, already went  
20 through you -- went with you some -- some of the -- went  
21 over those spends with you?

22 A Yes, basic, yes.

23 Q I am not going to ask you those questions. We  
24 are going to skip ahead a little.

25 Okay. Could we turn to what is marked as --

1 it's Comprehensive Exhibit 640, or FLL-180, and this is  
2 master numbers 3.3-5864.

3 And, Ms. Sparkman, do you recognize this  
4 document?

5 A Yes.

6 Q This was produced in response to a request  
7 about things that were used to develop your work papers  
8 and testimony?

9 A Yes.

10 Q And this document contains the projects and  
11 subprojects that roll up into the customer experience  
12 spends that TECO has included for the 2025 test year?

13 A Yes.

14 Q For 2025, the customer digitalization bucket  
15 is dominated by spends of 3.35 million for CE. I am  
16 going to assume CE is customer experience here?

17 A Yes.

18 Q So it's a spend of 3.35 million for customer  
19 experience strategy digitalization 2025?

20 A Yes.

21 Q And then another million dollars for website  
22 and portal automation 2025?

23 A Yes.

24 Q And then under the optional customer programs,  
25 there is a spend of 1.5 million for residential EV

1 charging?

2 A Yes.

3 Q Okay. We are -- if we could now turn to  
4 FLL-302. That's going to be master number 3.6-2542.

5 MR. LUEBKEMANN: I might have a number wrong  
6 there. Good. I did have the number right.

7 BY MR. LUEBKEMANN:

8 Q Do you recognize this document?

9 A Yes.

10 Q This is a presentation that you made to the  
11 Capital Camp?

12 A Yes, in 2022. Yes.

13 Q And Capital Camp, I just want to make sure I  
14 understand correctly. It's a -- it's a meeting with  
15 senior leadership within TECO that recommends whether to  
16 move forward or not with major capital projects?

17 A Yes. It's a meeting where we discuss and  
18 prioritize capital projects according to what's best for  
19 our customers.

20 Q Okay. If we go to master number 25434 in this  
21 document. This page shows the total new capital that's  
22 proposed for 2023 spending on customer experience  
23 projects?

24 A Yes.

25 Q And I know it's kind of small, but does that

1 total to 10.2 million?

2 A On the 2023 proposed? Yes.

3 Q Yeah. Okay.

4 And one of the new projects is CRB  
5 enhancements, meter to cash?

6 A Yes, I see it.

7 Q Could you just explain what CRB stands for  
8 here?

9 A Customer relationship billing. And so it's  
10 the system that we use for all of our customer data.

11 Q Thank you.

12 If we go ahead several pages to 25444. The  
13 heading for this slide is PV Automation.

14 A Just a moment while I get there, please. Yes.

15 Q And just to confirm, the PV automation project  
16 here, the photovoltaics that it's meant to streamline,  
17 is that referring to customer-owned rooftop solar?

18 A Yes. And at -- and at the time, that was --  
19 that was a project that we were looking at.

20 And so I think it's important to note that --  
21 and we didn't have Capital Camp this past year, but, you  
22 know, whenever you are bringing projects to Capital  
23 Camp, you -- it's, you know, a moment in time. And, you  
24 know, there are times that you are learning more, or you  
25 are reprioritizing your projects differently. And so

1 some of those projects might be reprioritized  
2 differently when you -- you know, when the time comes to  
3 get them done.

4 Q Okay. Going back to customer expectations, a  
5 theme that we have talked about at some length today.  
6 To evaluate the changing expectations and needs of its  
7 customers, TECO relies on surveys, both those done  
8 in-house and also by third-parties like J.D. Power?

9 A Yes.

10 Q Would it be fair to characterize the customer  
11 experience projects that are included in rate base for  
12 test year 2025 as, at least in part, implementing the  
13 things that comes out of the surveys that TECO does?

14 A I would say in part, yes.

15 Q Okay. If we could go back to -- let's see how  
16 it has been introduced. So this is introduced as OPC's  
17 13, so Exhibit 238 -- I'm sorry. Strike that. OPC 12,  
18 Comprehensive Exhibit 237. And this is the LFE-3 from  
19 your deposition.

20 And you have got two blowups now. So you have  
21 got the big one that you got from OPC that has pages two  
22 and three. And I believe you have also been handed  
23 another one that has the entire document. That should  
24 be to your right there.

25 A Which one do you want me to look at?



1           Q     We can start with the two and three, because  
2     it's actually a little bit bigger than the one that I  
3     made.

4           A     Okay.

5           Q     You can use the OPC version to begin with.

6           A     This -- this one?   Okay.

7           Q     I am going to try to avoid questions that you  
8     have already been asked on this.   Subject to just one,  
9     getting it out of the way.

10                    You confirmed earlier with Ms. Wessling that  
11     86 percent of respondents -- I am looking at the bottom  
12     question on page two -- 86 percent of respondents said  
13     that they were not willing to pay any additional cost  
14     for digital service options?

15           A     Yes.   And I think that -- if I may elaborate.  
16     The reason why it's so high is because customers expect  
17     that digital options are already part of how they do  
18     business every day.

19                    Again, digital options are a basic  
20     expectation, and so their -- customers expect that we  
21     are already thinking about digital options, and we are  
22     already providing them with the digital options and  
23     tools that they need to have available to navigate  
24     through our systems.

25           Q     But the question that was asked to customers

1    **there is simply: Would you be willing to pay a little**  
2    **more, a lot more, or no additional cost for TECO, Tampa**  
3    **Electric, to invest more in any of the following? Then**  
4    **it gives that list.**

5           A     Yes, I see that.

6           Q     Okay. So it doesn't -- it doesn't have any  
7    **further context about what level of digital**  
8    **implementation is already on the system?**

9           A     No, it doesn't. But I will also point out  
10   that this is just one question, one subset of customers.

11                   And also, if you look in the top left-hand  
12   corner, the average age of these survey participants is  
13   58. And so, again, that is just one pocket and one  
14   subset of customers for this particular question.

15           Q     But it's the one that we have, so I am going  
16   to ask you a few more questions on it.

17           A     Certainly.

18           Q     Thank you.

19                   The next line down, 84 percent of respondents  
20   said they would not be willing to pay any more to  
21   receive information on topics that I care about. Am I  
22   reading that correctly?

23           A     Yes, I am acknowledging -- do you want me to  
24   just acknowledge that that's what the line says? Yes.

25           Q     Okay. 81 percent said they would not be

1 willing to pay anything additional for electric vehicle  
2 purchases or charging infrastructure?

3 A Yes, that's what it says.

4 Q 79 percent said they would not be willing to  
5 pay anything additional for improved customer service?

6 A Yes.

7 Q 78 percent said they would not be willing to  
8 pay anything additional for customer outreach and  
9 support?

10 A That's correct.

11 Q Okay. Earlier, I think you had an exchange  
12 with Ms. Wessling about reliability, and how customers  
13 are always going to want more reliability, right?

14 A I believe I stated that customers have  
15 expressed the desire for near perfect power. Yes.

16 Q Okay. I don't want to mischaracterize your  
17 testimony.

18 Would you agree that if there were no  
19 additional cost, customers would want 100 percent  
20 reliability all of the time?

21 A If -- sure, if there was no additional cost.

22 Q Would you agree, if there was no additional  
23 cost, customers might want more options for digital  
24 service, or other apps, all sorts of things to improve  
25 the customer's experience?

1           A     I mean, maybe. I don't know. I don't -- I am  
2 not sure how to answer that, because I -- it depends on  
3 the customer's preference, so I -- and what's important  
4 to that subset of customers.

5           **Q     Sure. But as a general principle, if**  
6 **customers could have more and better service with zero**  
7 **additional cost, do you think they would want that?**

8           A     Generally, I would say yes.

9           **Q     Okay. But this question here is getting at**  
10 **the fact that there is an additional or marginal cost to**  
11 **these kinds of improvements, is that right?**

12          A     Yes.

13          **Q     Okay.**

14          A     I am sorry, if I could just add one thing.

15          **Q     Sure.**

16          A     I would not consider these to be improvements,  
17 though, because as I look at the list, safety of its  
18 service, safety of its employees, that's not a -- an  
19 additional option, or additional service, as you  
20 characterized it.

21          **Q     Perhaps we are -- we are just reading them**  
22 **differently. The way that I read this question: Would**  
23 **you be willing to pay a little more, a lot more, et**  
24 **cetera, for TECO to invest more into any of the**  
25 **following, to me, suggests an incremental amount from**

1 what TECO is already doing. Is that a fair  
2 characterization of the question?

3 A Yes.

4 Q Okay. And looking at the top question on that  
5 page, which is on page two, this is: Please select up  
6 to three causes you feel are important for TECO support.

7 A Yes, I see that.

8 Q And the three highest responses, what are  
9 those?

10 A They are: Senior citizens, low-income  
11 customers and solar.

12 Q Okay. And senior citizens was -- senior  
13 citizens and low-income customers were both a majority  
14 of respondents?

15 A Yes.

16 Q And then there is a -- there is a section at  
17 the very bottom, you see that, it says: Other answers  
18 include?

19 A Yes.

20 Q So do I understand correctly that there might  
21 have been, like, a fill-in-the-box or kind of narrative  
22 response there?

23 A I would assume so. I don't recall the  
24 specifics of this one survey, but I would assume yes.

25 Q Okay. Fair enough.

1           And the answers included there for other  
2   answers were, affordable energy, renewable energy,  
3   climate change and the environment?

4           A     Yes.

5           Q     Okay. Among all of the causes that  
6   respondents felt it was important for Tampa Electric to  
7   support, is there anything that says industrial  
8   customers?

9           A     No, but I don't ever recall a customer saying  
10  the word "industrial customers". That's not generally a  
11  term we would --

12          Q     Big business corporation -- we can -- we can  
13  go through --

14          A     Yeah.

15          Q     -- synonyms, but --

16          A     Yeah. We just -- I don't -- customers  
17  wouldn't use that term.

18          Q     Okay. You understand the concept --

19          A     Yes.

20          Q     -- I'm referring to?

21          A     Yes. Uh-huh.

22          Q     And that does not appear?

23          A     I don't see that on here. No.

24          Q     We can get off this one for now.

25                   Going back to your testimony, this is actually

1 going to be, I believe, what is now marked Exhibit 17,  
2 so your exhibit, KKS-1. And looking at document six --  
3 actually, I apologize, document two. This is going to  
4 be C2139.

5 Okay. This shows TECO's residential overall  
6 customer satisfaction over the years between 2015 and  
7 now, is that right -- or 2015 and 2023?

8 A Yes.

9 Q And over the last four years of data on these  
10 charts, TECO's residential overall customer satisfaction  
11 has declined?

12 A Yes. I would say minimally, yes.

13 Q But it has declined each of those years?

14 A Yes.

15 Q If we turn to document six of this exhibit.

16 During this period of declining customer  
17 satisfaction, TECO spent roughly \$35 million between  
18 2022 and 2024 on customer experience projects?

19 A Yes.

20 Q You had a conversation with Ms. Wessling  
21 earlier about bad debt.

22 A Yes.

23 Q And you acknowledged that TECO's customers  
24 have faced difficulties in paying their bills?

25 A I acknowledge that there is a small subset of

1 customers that have indicated an inability to pay. Yes.

2 Q Give me a moment.

3 And do you attribute -- I believe you  
4 attributed this increase in bad debt to the effects of  
5 COVID-19, inflationary pressures and the expiration of  
6 federal assistance dollars, generally characterization  
7 -- generally characterized correctly?

8 A Yes. I think I would agree that there is a --  
9 there is multiple reasons why bad debt has increased a  
10 bit, but there is always bad debt in the business. And  
11 as I indicated earlier, our bad debt is currently at  
12 three-tenths of one percent, and stays between  
13 two-tenths and four-tenths of one percent, while the  
14 national average is at seven-tenths of one percent.

15 Q Sure. And I am not trying to get you to agree  
16 with me on what my reasonings are. I want to make sure  
17 I am correctly characterizing from your testimony.

18 You testified that this increase, you  
19 attribute to the effects of COVID-19, the expiration of  
20 federal assistance dollars and inflationary pressure,  
21 does that correctly --

22 A Yes. Yes.

23 Q -- reflect your testimony?

24 A Yes.

25 Q Conversely, your testimony does not attribute



1 the increase in bad debt over those years to the effects  
2 of the settlement agreement from TECO's last rate case  
3 in 2021, is that right?

4 A That's correct.

5 Q You will be happy to know we are skipping a  
6 lot of questions here.

7 Okay. If we could turn to 3.1-2885. This is  
8 Exhibit 551, or FLL-91.

9 Do you recognize this document?

10 A Yes.

11 Q And is this an interrogatory for which you  
12 sponsored the answer?

13 A Yes.

14 Q And this document shows the number of  
15 customers whose debt was written off as uncollectible  
16 from 2020 to 2024, year-to-date?

17 A Yes.

18 Q And it shows that in 2020, there were 24,732  
19 customers whose debts were written off?

20 A Yes.

21 Q And the same number for 2021, was 24,738?

22 A Yes.

23 Q In 2022 -- or in 2023, it was 30,269?

24 A Yes.

25 Q And I left out 2022, but that one is 30,269 --

1 I'm sorry. That was 30,269. 2023 is 33,167?

2 A Yes.

3 Q I apologize. Thank you.

4 So the number has gone up for every year that  
5 we have full data?

6 A Yes, it has gone up a little bit.

7 Q And while the number -- and the number from  
8 2024 is year-to-date. And the year-to-date that it was  
9 as of was June 10?

10 A Yes.

11 Q Or fair to say, it was no later --

12 A Close.

13 Q -- than June 10?

14 A Yeah. It was probably through the end of May.

15 Q Okay. So in that case, the year-to-date would  
16 represent five months of this year?

17 A Yes.

18 Q And if it goes only through May, would you  
19 agree that the period of TECO's highest energy usage had  
20 not been reflected in the year-to-date?

21 A I would agree with that statement. Yes.

22 Q Then that would fall typically in the summer  
23 months, between June and September?

24 A Yes.

25 Q Okay. If we go back to your late-filed 3, and

1 now we can look at the big one.

2 A Okay.

3 Q This is master number 3.1-1226. We are going  
4 to go to page one, which is 1227.

5 Is there any chance you are able to read this?  
6 I tried my best with our printer. This is even the big  
7 version.

8 A Uh-huh.

9 Q And if --

10 A Yes, I will do my very best.

11 MR. LUEBKEMANN: And, Mr. Schultz, I believe  
12 that there is a way that you should be able to pop  
13 it out and zoom in.

14 THE WITNESS: Yeah, I think I can read it if I  
15 hold it very still.

16 BY MR. LUEBKEMANN:

17 Q Well, it is my testimony that your eyes are  
18 way ahead of mine.

19 The survey on this page is capturing  
20 responses -- the question on this page is capturing  
21 responses from a 2023 -- July 2023 survey?

22 A Yes.

23 Q That's in the blue box, regarding payment  
24 arrangements?

25 A Yes.

1 Q And --

2 A I'm sorry. Payment assistance, is that -- am  
3 I on the wrong one?

4 Q Payment arrangements. I am on --

5 A Oh, here, the title. Yes.

6 Q Yes. Sorry.

7 And so looking at the first question. Tell me  
8 if I'm reading this correctly: How important is it for  
9 companies to offer payment assistance options to their  
10 customers?

11 Is that what that question says?

12 A Yes.

13 Q And the respondents from TECO's system that  
14 answered the survey, 56 percent said it was extremely  
15 important?

16 A That's what that says. Yes.

17 Q And another 28 percent said it was very  
18 important?

19 A Yes.

20 Q And that's my questions on that one.

21 MS. HELTON: And Mr. Chairman, could I just  
22 confirm? So that was FLL-49, or CEL Exhibit 509?

23 MR. LUEBKEMANN: Yes. And I -- and I should  
24 specify, I have been trying to keep up with where  
25 OPC has introduced the same document. So that

1           actually should be comprehen -- it -- I assume that  
2           we would rather not introduce the same document  
3           multiple times.

4           CHAIRMAN LA ROSA:   Correct.

5           MS. HELTON:   Yes.

6           MR. LUEBKEMANN:   So let's call that Exhibit  
7           237, which was introduced as OPC 12.

8           CHAIRMAN LA ROSA:   Okay.   Is that fair?

9           MR. LUEBKEMANN:   Is that correct?   Yeah,  
10          this --

11          CHAIRMAN LA ROSA:   Mary Anne, is that correct?

12          MS. HELTON:   I think so.   Yes, sir.   Thank  
13          you.

14          CHAIRMAN LA ROSA:   Okay.

15          MS. HELTON:   I just was trying to keep up with  
16          which exhibits we are using.

17          CHAIRMAN LA ROSA:   Perfect.

18          MR. LUEBKEMANN:   I appreciate that.   And I am  
19          trying to keep you all happy.

20          CHAIRMAN LA ROSA:   Yeah.   Thank you.

21   BY MR. LUEBKEMANN:

22           **Q     Okay.   So the bottom question on this page,**  
23           **the question asks:   Which of the following do you think**  
24           **would be beneficial ways for Tampa Electric to provide**  
25           **assistance?**

1 A Yes.

2 Q And in response to that question: 65 percent  
3 indicated that one way that TECO could provide  
4 assistance would be to help provide info on assistance  
5 agencies that might be able to help?

6 A That's what that says. Yes.

7 Q Okay. And, in fact, TECO customers have  
8 received a lot of federal aid assistance in the past  
9 several years?

10 A They've received amounts. I am -- I -- what  
11 are you basing the a lot on? That's a general term, so  
12 I can confirm the amounts that they have received.

13 Q That's fair. Subject to check, about 12  
14 million, 24 million and 12 million over '21 to '23?

15 A Yeah, roughly. So about 22 million, 11  
16 million, 11 million.

17 Q Okay. But to your knowledge, that federal --  
18 the specific source of those federal assistance dollars  
19 is no longer available to TECO customers? Should I  
20 rephrase that?

21 A Yes.

22 Q That was referring specifically to aid that  
23 had been made available in light of the coronavirus  
24 pandemic.

25 A So what I noted is that the federal assistance

1 dollars were cut nearly in half when looking at 2022  
2 dollars to 2023.

3 Q Sure. And from 2023 to 2024, to your  
4 knowledge, what -- where have those dollars gone?

5 A It looks like '23 and '24 are about the same.

6 Q Okay. 58 percent of respondents to this  
7 question also indicated that providing information on  
8 energy efficiency programs and rebates would be helpful?

9 A Yes.

10 Q And I will note that we appreciate TECO's  
11 efforts on that effect.

12 The question also collected customer comments?  
13 And I am looking at the yellow box on the bottom.

14 A Yes.

15 Q Are you able to make out what any of those  
16 lines say?

17 A Yes.

18 Q Okay. Could you read the second from the top?

19 A The second from the top says: So many people  
20 are struggling with payments for everything. Anything  
21 you can do to assist would be worthwhile.

22 Q And could you read the last bullet point?

23 A Too many people live paycheck to paycheck.  
24 Electricity is an essential need. Any assistance should  
25 be offered that is available.

1 Q Great. If we could turn to page four of this  
2 document. And these answers are from a 2021 survey?

3 A Yes.

4 Q And when asked in this survey how important it  
5 was for TECO to provide assistance programs to --  
6 programs for low-income residents, 41 percent answered  
7 that it was extremely important, and 25 percent answered  
8 that it was very important?

9 A I am sorry. I am trying to follow you. I  
10 might not be on the right page. It looks like I --  
11 which question are you reading?

12 Q So I am looking at page four, and I am looking  
13 at what is going to be the middle question.

14 A The middle. Okay, I am there.

15 Q Okay. And that question reads: How important  
16 is it that Tampa Electric does each of the following?

17 A Yes.

18 Q And highlighted in the green bar in the middle  
19 of the possible responses is assistance programs for  
20 low-income residents?

21 A Yes.

22 Q And the answers there were 41 percent saying  
23 it was extremely important, 25 percent saying very  
24 important?

25 A Yes.



1 Q Okay. And then if we go all the way to the  
2 end of that, the columns there, six percent of customers  
3 said that it was not at all important?

4 A Yes.

5 Q So 94 percent of respondents said -- attached  
6 some level of importance to providing assistance  
7 programs to low-income residents?

8 A Yes, which is great, because that's exactly  
9 what we do when we partner with our customers on  
10 customer assistance.

11 Q If we could go to page five. This page begins  
12 a section that is going to be comparing -- it's going to  
13 be looking at a J.D. Power electric residential study  
14 from Q3 of 2023?

15 A Yes.

16 Q Rather, I will represent that this is the  
17 first page of several pages that are all looking at  
18 different parts of that study.

19 A Okay.

20 Q And in this -- on this page, which will be  
21 true for the others, it's ranking 12 utilities that make  
22 up the J.D. Power South Large Segment --

23 A Yes.

24 Q -- of which TECO is a member?

25 And on this -- on -- if we scroll ahead to

1 **page seven. The results presented on this page are in**  
2 **relation to the question of whether the utility supports**  
3 **economic development of local community, correct?**

4 A Yes.

5 Q **And on this chart, TECO is ranked as 10 out of**  
6 **12 for this region?**

7 A Yes, which speaks to the importance of  
8 ensuring that we are communicating with our customers  
9 what we are doing in the community. And when we don't  
10 communicate effectively, customers don't remember the  
11 things that we do in the community when it's time for  
12 them to fill out the J.D. Power survey.

13 Q **If we could go to page nine. This is rating**  
14 **-- this is ranking the same utilities on their**  
15 **assistance programs?**

16 A Yes.

17 Q **And TECO is ranked 11 out of 12 for the large**  
18 **south segment?**

19 A Yes. And, again, we are one of the few  
20 utilities in the nation that doesn't have a -- any type  
21 of a discount program, or a senior low-income program.  
22 I -- this is the third utility company that I have  
23 worked in in my career, and the previous two that I  
24 worked for had a low-income discount and a senior  
25 discount. And many of the utility companies in the

1 nation do, and we are one of the few that don't.

2 Q To confirm, there is no low-income discount  
3 program contemplated in TECO's rate case petition?

4 A There is a senior.

5 Q Correct, but not a low-income?

6 A Not low-income. There is -- there is a senior  
7 low-income discount, not just low-income.

8 Q Good correction.

9 And if we go to page 14, finally back into  
10 readable territory.

11 A Yes. Thank you.

12 Q And also getting close to the end of this  
13 document.

14 This slide is from an internal presentation.  
15 Secondary research bill per 1,000 kilowatt hour rate  
16 comparison was done in July 2024. This is the page  
17 before. I just want to make sure I am setting up --  
18 sorry, I am on page 13, this page before --

19 A Yes.

20 Q -- I just want to make sure I am  
21 contextualizing what we are looking at.

22 A Yes.

23 Q Okay, so then staying on this page 14.

24 Could you read the first bullet on this page  
25 beginning with context?

1           A     Yes: Context, Tampa Electric ranked third  
2 highest nationally in average customer bill in 2023,  
3 primarily due to high consumption.

4           **Q     And if you know, in 2023, did TECO have the**  
5 **third highest electricity usage among studied utilities?**

6           A     So it sounds like, what I just read, in 2023,  
7 due to high consumption -- because, again, if you  
8 recall, the summer of 2023 was a very, very, very hot  
9 summer, and so consumption was absolutely hotter as  
10 customers were looking to keep their homes cool and  
11 using electricity. So if I am just going by the bullet,  
12 that's what it says, that Tampa Electric ranked third  
13 highest nationally in average customer bill in 2023,  
14 primarily due to high consumption.

15          **Q     Sure. 2023 was a killer. I think we can all**  
16 **agree with that.**

17                   **You would agree that it was also a very hot**  
18 **summer for Georgia?**

19          A     I don't know. I didn't go to Georgia in 2023,  
20 so I am not certain.

21          **Q     Did you travel anywhere last summer in the US?**

22          A     Not to Georgia.

23          **Q     That's fair. I won't limit it to Georgia.**

24                   **If I were to represent to you that last year's**  
25 **very hot summer affected more than Tampa's territory,**

1 would you agree with that?

2 A Yes.

3 Q And so you say that it was ranked third  
4 highest nationally on average customer bill primarily  
5 due to high consumption. Really, the question I am  
6 trying to get out here is, do you have any indication of  
7 how the consumption on TECO's system compared in terms  
8 of kilowatt hours per customer to other systems across  
9 the country that were also undergoing the same very hot  
10 summer?

11 A I don't know.

12 Q Would you agree that the volumetric portion of  
13 a customer's bill is a function of both their kilowatt  
14 hour usage and also the rate at which that kilowatt hour  
15 usage is charged?

16 A Yes.

17 Q Okay. Now, I would like to turn to a  
18 confidential exhibit. This is FLL-321C.

19 Okay. And, Ms. Sparkman, this exhibit, you  
20 had a conversation with your counsel about the status of  
21 what we can verbalize in this exhibit?

22 A I did not.

23 Q I represent to you that Ms. Ponder told me  
24 that she had conferred with you about what we talked  
25 about?

1 A Oh, not specific to this page. I am sorry.

2 Q Oh, sorry. This --

3 A Yes. Yes.

4 Q Okay.

5 A Apologies. I misunderstood.

6 Q So I am going to -- I am going to trust you to  
7 verbalize things, and you can call us off if we get into  
8 anywhere we shouldn't be.

9 A Yes.

10 Q Okay. But it's my understanding that  
11 everything should be okay to verbalize.

12 A If I may check?

13 Q Please.

14 A Yes. The items that are -- I am responsible  
15 for, I can speak to on here. Yes.

16 Q And everything in this exhibit is items that  
17 you are responsible for -- or this -- sorry, this  
18 excerpt?

19 A Yeah.

20 Q FLL-321 is larger than the excerpt that is  
21 printed and available to you here. We are only going to  
22 talk about these pages.

23 A Yes. So you have items in the folder that are  
24 not items that are under my purview.

25 Q I apologize. I realized, we printed this and

1 it actually includes other things. The section that we  
2 are going to go through stops at 80 -- I believe at  
3 8091. I am sorry, at 8093. So if there is anything  
4 beyond 8093, we will not be asking questions about it  
5 here.

6 A So this one piece of paper is 92 and 93?

7 Q No. I am sorry. The range that we are going  
8 to potentially cover in this line of questioning is from  
9 8086, which is the front page, to 8093. I just wanted  
10 to confirm, we -- when we printed this, there is a  
11 larger exhibit. I wanted to make sure that there is  
12 not --

13 A I see.

14 Q -- other pages mixed in.

15 A Okay. Just a moment, please, because they are  
16 not in order. Okay.

17 MR. MOYLE: Just a question of clarification  
18 here, back to our other point about, you know,  
19 objecting. I mean, it sounds like what you are  
20 going to do is take a couple of exhibits, or a  
21 couple of documents from this and use those as an  
22 exhibit but not the rest of it. So how do you  
23 clean that up? I mean, are we going to do that --

24 MR. LUEBKEMANN: We have intro -- we plan to  
25 move this entire exhibit into evidence. This is an

1 excerpt -- I am sorry, it's already been moved in?

2 MR. MOYLE: Okay.

3 MR. LUEBKEMANN: This is FLL-321C, which was  
4 moved in after Mr. Collins. This is just an  
5 excerpt for everyone's ease.

6 BY MR. LUEBKEMANN:

7 Q Okay. Are you ready to proceed?

8 A I think so. Yes. If you could just direct me  
9 where you would like for me to look.

10 Q Surely. I would be happy to.

11 Could we turn to Bates stamp 8087? This will  
12 be the second page of the document.

13 A Yes.

14 Q Could you read the second bullet point?

15 A Yes.

16 Q And actually -- yeah, you can read the whole  
17 thing.

18 A The second bullet point on 8087 reads:  
19 Compared to 2022 results, Tampa Electric's overall  
20 customer satisfaction decreased by 27 points to a 2023  
21 final score of 735, placing us in the second quartile  
22 nationally. The decline is largely attributed to price  
23 satisfaction, higher average bills, higher awareness of  
24 rate increases, et cetera. We remain committed to  
25 transparent communications, which includes educating



1 customers about the factors influencing utility prices  
2 and energy saving best practices to help customers  
3 reduce their bills.

4 **Q Thank you.**

5 **And could you read the second from final**  
6 **bullet point?**

7 A As agencies struggle to secure funding, we  
8 continue to see an increase in bad debt expense, which  
9 has a direct correlation to increasing rates and  
10 decreases in federal funding. Bad debt expense  
11 increased almost five million compared to 2022.

12 **Q And that's that connection between bad debt**  
13 **and federal assistance and rates that we were talking**  
14 **about earlier?**

15 A That's correct. So in 2022, there was  
16 approximately \$22 million in federal assistance. And  
17 the very next year, that fell to 11 million and some  
18 change.

19 **Q In fact, if we could turn to 8093, and go**  
20 **ahead and get the correct numbers in the record?**

21 A Yes.

22 **Q Could you just read the amounts of agency**  
23 **funding in those last points there?**

24 A Certainly. So in December of 2021, it was  
25 approximately 12.9 million. In December of -- or the

1 year of 2022, it was 22.5 million, and in 2023, 12.2  
2 million.

3 Q And those figures specifically represent the  
4 sums of federal assistance that flowed through customers  
5 to TECO?

6 A Yes.

7 Q Going back a few pages to 8088.

8 A Okay.

9 Q The first heading, not the main title, but the  
10 first subheading on this page is value campaign goal?

11 A Yes.

12 Q And under that heading, you indicate that one  
13 of TECO's values is an emphasis on affordability?

14 A Yes. That's part of that campaign goal.

15 Q You also refer to affordability or affordable  
16 energy several times throughout your testimony. As we  
17 sit here today, do you have a definition of  
18 affordability?

19 A You know, I don't have a specific definition.  
20 I don't know that there is one on affordability. I, you  
21 know, believe affordability is a wide range of things.

22 You know, as a -- as a servant leader in the  
23 organization, that grants me the privilege of really  
24 focusing on those things that are important to our  
25 customers. And I would say that price and affordability

1 is one of the things, you know, along with reliability,  
2 and safety, and how we show up in our community.

3 And I think, you know, what's important to our  
4 customers related to affordability is keeping rates  
5 reasonable in the long-term. You know, they want to  
6 know that we are looking out for their best interests in  
7 the long-term, and that we are thinking many, many years  
8 ahead. And so, you know, when I think about  
9 affordability, that's really what comes to mind.

10 **Q I want to make sure I understood that**  
11 **correctly. You are saying customers are most -- TECO**  
12 **customers are most concerned about affordability in the**  
13 **long-term?**

14 A I am saying that customers in general, as  
15 related to affordability, they want us to keep rates  
16 reasonable in the long-term, meaning not just for one  
17 year or two years. We need to be looking ahead, and  
18 thinking about making prudent and cost-effective  
19 investments; ensuring that our reliability results in  
20 next to perfect power; ensuring that resiliency is where  
21 it needs to be.

22 And, yes, as I said earlier, there is a small  
23 pocket of customers that views affordability in the  
24 definition of how they are paying their bill, or their  
25 inability to pay their bill. And for that bucket of

1 customers, that is exactly why we have such a robust  
2 customer assistance program. And we have put things in  
3 place to ensure that we are walking alongside our  
4 customers, so that our customers are able to have energy  
5 and electricity in their homes.

6 Q Could you point me to any document in the  
7 record, any survey that supports the proposition that  
8 TECO's customers are more concerned about long-term  
9 rates than near-term rates?

10 A I can't point to a document. No.

11 Q Okay. If we could go to the next page.

12 This graph charts electrical residential  
13 overall customer satisfaction from 2015 to 2023?

14 A Yes.

15 Q And it's very nearly the same as the one in  
16 your Exhibit KSS-1?

17 A Yes.

18 Q The difference is that this also includes a  
19 narrative explanation of the customer sentiment?

20 A Yes.

21 Q Could you read the -- both bullet points for  
22 that?

23 A Sure: In 2023, Tampa Electric scored better  
24 than the industry average for overall satisfaction for  
25 all six drivers. Price satisfaction, for example,

1 higher average bills, higher awareness of rate  
2 increases, was the primary driver of the industry  
3 declines experienced in 2023.

4 Q Thank you.

5 And on the side, there is a second chart that  
6 shows the industry rank, segment rank and Florida rank  
7 over the --

8 A Yes.

9 Q -- same years.

10 The industry rank evaluates roughly 150 large  
11 utilities nationally?

12 A Yes, roughly.

13 Q It varies -- it seems to fluctuate from year  
14 to year based on the criteria, but --

15 A Yes.

16 Q -- generally that number?

17 And the segment rank refers to the large south  
18 from the J.D. Power survey?

19 A Yes.

20 Q Is that the same group?

21 A Yes.

22 Q Okay. And the Florida rank is within Florida?

23 A Yes.

24 Q Between the quarter one '22 and quarter two  
25 '23 surveys, TECO's industry rank fell by 17 places from

1 26 -- 29 to 46?

2 A Yes. It looks like we were in second quartile  
3 in 2023. That's correct.

4 Q Okay. And then on the next page, 8090, we  
5 have the same chart here, but for the business side; is  
6 that fair?

7 A Yes.

8 Q And looking at this one, the most recent two  
9 surveys on this, I understand from our conversation  
10 earlier this summer that the surveys don't happen at the  
11 exact same time for different customer classes, right?

12 A That's correct. Yes.

13 Q But for the most two recent surveys on this  
14 page, those are the second quarter of 2022 and the third  
15 quarter of 2023?

16 A That's correct.

17 Q So similarly, a five-quarter segment like the  
18 last one? I can rephrase that, if that makes more  
19 sense.

20 Going from Q1 '22 to Q2 '23 would be five  
21 quarters? That's the residential one.

22 A So on the residential one?

23 Q Yeah.

24 A Yes, there is four waves.

25 Q Okay. And so then here, looking from Q2 '22

1 to Q3 '23, the industry rank for TECO fell just two  
2 places, from 36 to 38?

3 A Yes, through 2023, and then you don't have it  
4 here, but in 2024, the overall electric business  
5 customer satisfaction, we are -- we are were back in the  
6 -- in the top quartile.

7 Q Congratulations.

8 Looking at specifically what's on this page,  
9 you would agree that the business customer satisfaction  
10 flipped by a smaller amount in the residential  
11 satisfaction?

12 A It's a apples-to-oranges comparison.

13 Q And why do you say so?

14 A Because it's different -- there is different  
15 questions that are asked, different considerations, and  
16 so I wouldn't compare business and residential  
17 satisfaction with each other.

18 Q Well, the two charts that I am looking at  
19 here, one says, electric resident overall customer  
20 satisfaction, and the other one says, electric business  
21 overall customer satisfaction; is that right?

22 A Yes.

23 Q So it seems to me, rolled up at this level,  
24 you are presenting the cumulative impressions of that  
25 class in terms of their overall satisfaction?

1           A     Yes, of each class individually.

2           Q     Okay. And so, again, looking at the numbers  
3 on these pages, the business customer satisfaction  
4 declined by a smaller amount than the residential  
5 customer satisfaction for the period that we have?

6           A     Again, I don't compare business and  
7 residential. It's not a fair comparison. I wouldn't be  
8 comfortable comparing the two. It's a different subset  
9 of customers.

10          Q     Sure, it's a different subset of customers,  
11 but in terms of talking about what is categorized as  
12 their overall customer satisfaction on these pages.

13          A     Right, but there is a different number of --  
14 you know, one measures 76, one measures 77. On the  
15 residential side, there is more that are being measured.  
16 I -- I am not comfortable making the comparison between  
17 the two. Again, it's apples to oranges.

18          Q     Okay. We will move on.

19                   On the next page, 8091, it states that the  
20 extreme summer weather and other factors led to higher  
21 than usual bills for the summer of 2023?

22          A     Yes.

23          Q     And that paragraph goes on to state that this  
24 caused many customers to experience financial  
25 difficulties as they looked for ways to balance their



1 energy spend with other priorities?

2 A Yes.

3 Q And this refers to the choices that many TECO  
4 customers have had to make between paying their TECO  
5 bill and other priorities, like food, medicine, rent?

6 A I don't know what competing priorities every  
7 household has. I would imagine they are a little  
8 different.

9 Q I know that you were there because I saw you,  
10 but just to confirm for the record, you were able to  
11 attend all of the customer service hearings that TECO  
12 had this summer?

13 A Yes. Absolutely. I was at every single one  
14 of them.

15 Q So you are familiar with the testimony of  
16 numerous customers --

17 A Yes.

18 Q -- numerous TECO customers that high TECO  
19 bills have forced exactly the kinds of decisions I was  
20 just characterizing, about whether essentials like food  
21 and medicine or their TECO bill would have to be  
22 prioritized?

23 A Yes, there were a couple of customers out of  
24 our 844,000 customers that came to the customer  
25 hearings. And out of the ones that came and spoke,

1 there were, I recall, one or two that had that  
2 testament. Yes.

3 Q Well, it was -- it was more than a couple  
4 customers that came to the hearings, is that right?

5 A There were 53 that spoke.

6 Q And actually staying on the -- we can be done  
7 with this document now.

8 Staying on the customers that spoke at the  
9 hearing, Ms. Wessling asked you a few questions about  
10 their support or opposition to TECO's proposed rate  
11 increase. You recall those -- that question?

12 A Specific to the customers that came to the  
13 hearing?

14 Q Yeah. Specifically, of all of the customers  
15 that testified at the hearing, is it fair to say that  
16 only one was in support of TECO's petition?

17 A I think it's fair to say that there were  
18 various issues that were discussed. I don't -- you  
19 know, I don't know -- I don't recall that all of them  
20 were against the rate increase, because I think there  
21 were -- there was a customer that talked about  
22 environmental. There was a customer that talked about  
23 their AMI service, if I am remembering correctly.

24 Q I believe I understood your earlier answer to  
25 Ms. Wessling's question that all but one customer that

1 had testified had been in opposition to TECO's petition.

2 Is that no longer your testimony?

3 A I believe she asked the question differently  
4 than what you had just asked, but what I answered  
5 earlier was correct.

6 Q Okay. Yeah, I don't want to put words in your  
7 mouth, so could you -- could you help me tease out the  
8 difference?

9 A Could you ask the question again?

10 Q What I am really trying to get at here is, if  
11 you look at all of the customers that testified, I think  
12 that there was pretty overwhelming lack of support for  
13 TECO's petition. There was one customer that we  
14 identified in the earlier conversation that  
15 wholeheartedly supported TECO's petition. Does that  
16 sound familiar?

17 A Yes.

18 Q Do you recall whether that one customer that  
19 supported TECO's petition was a long-time employee of  
20 TECO?

21 A I believe that it was an ex-employee of TECO.

22 Q Subject to check, this is -- this would be the  
23 retired manager for ethics and compliance?

24 A Subject to check, yes.

25 Q Okay. Also on the subject of the service

1    hearings, would you agree that there were more  
2    attendees, more speakers at the service hearing in  
3    person than there were in the virtual ones?

4           A     Yes.

5           Q     Substantially more?

6           A     Yes.

7           Q     I have just a couple last follow-ups here.  
8                   Referring to the discussion about the EV  
9    programs and the optional programs that you had with Ms.  
10   Wessling earlier, as we have already established, TECO  
11   is a monopoly utility provider in its territory?

12          A     Yes.

13          Q     Just a foundational question, not a trick.

14                   So customers don't have a choice of where they  
15   get their electricity if they live in TECO's territory,  
16   it's coming from TECO?

17          A     Unless they have -- I mean, unless they, I  
18   guess, have solar power.

19          Q     Fair enough. Short of defecting from the  
20   grid --

21          A     Yes.

22          Q     -- if they are going to get electricity, it's  
23   from TECO?

24          A     Yes.

25          Q     Customers with electric vehicles in TECO's

1 territory do have an option in the private market to  
2 charge in otherwise existing infrastructure?

3 A Yes.

4 Q Rather, would you agree that there is a  
5 private market for EV infrastructure?

6 A Yes.

7 Q Okay. And a last point on affordability. I  
8 want to go back to something you said about the -- about  
9 affordability.

10 You mentioned that, in terms of affordability,  
11 you know, with rates -- with the bills going up, rates  
12 and the, you know, attendant bills, you won't struggle  
13 to pay your bill, you said that earlier?

14 A I used myself as an example of an actual  
15 customer, according to what is important to me and my  
16 household. But I can't speak to what is important to  
17 other customers in their households.

18 Q Do you have a sense of the average median in  
19 -- or, rather, the median income in Tampa?

20 A I don't.

21 MR. LUEBKEMANN: Thank you very much. That's  
22 all my questions.

23 CHAIRMAN LA ROSA: Thank you.

24 Let's move to FIPUG.

25 MR. MOYLE: Thank you, Mr. Chairman. I have a

1 few questions that will probably take us close to  
2 our break time, so I will go ahead and plow  
3 through.

4 EXAMINATION

5 BY MR. MOYLE:

6 Q Good afternoon.

7 A Good afternoon.

8 Q I want to follow up on something that Mr.  
9 Collins talked about when he was on the stand with  
10 respect to the improvements that customers have seen  
11 with the smart grid development, and there was a chart  
12 that had the average time going from 70 minutes to 30  
13 minutes, and it was a better SAIDI review. Is that  
14 something -- are you responsible for the call centers  
15 that people use when they have an outage because of a  
16 storm, or otherwise?

17 A I am responsible for the call centers and the  
18 representatives that take the calls, if a customer is  
19 reaching a live person when they are reporting an  
20 outage, yes.

21 Q Okay. So the storms and a hurricane, and all  
22 that, that's hand -- that's not a separate system,  
23 that's handled as part and parcel of what you do and  
24 provide?

25 A There is -- yes. If I can elaborate a little

1 bit, though. A customer can report an outage without  
2 reaching a live person. In fact, that's their preferred  
3 method.

4 Q Right. And that's part of the new grid  
5 modernization smart grid, that you can go on-line and  
6 provide the information -- I mean, he was talking about  
7 the grid being intelligent, and could just -- rather  
8 than having to wait on the call, it could send a message  
9 internally to TECO to say, this is down, and you don't  
10 need people to call to tell you that, and that resulted  
11 in a significant savings of time from the average  
12 response. Is that currently in place, or no?

13 A So that's a question for Witness Whitworth. I  
14 am not familiar with the grid reliability aspect of  
15 things.

16 Q If someone's electricity goes out now, how do  
17 you typically find out that it's out?

18 A A customer calls us, and they either use the  
19 automated system to report their outage; they can text  
20 out to a certain number to let us know; or they can  
21 reach a customer service professional, and the customer  
22 service professional can input the outage information  
23 into the system.

24 Q Okay. So as we sit here today, Tampa Electric  
25 has no ability to self-determine that someone is out,

1 and is dependent and reliant upon customers to contact  
2 the company to say, I'm out, you need to come fix it?

3 A Again, that would not be a question for me. I  
4 am not familiar with the technology that is currently  
5 available or not available in the field.

6 Q Okay. I have a few questions that relates to  
7 your optional customer programs that you referenced on  
8 page 11 of your testimony.

9 A Yes.

10 Q I don't -- you can go there if you want, but  
11 what is the genesis of the optional customer programs?  
12 Why did you guys put this in place?

13 A So these are just optional programs that we  
14 put in place to ensure that we are delivering innovative  
15 functionality that our customers are interested in  
16 subscribing to at some point.

17 Q So you use an example of renewable energy  
18 options. What are those?

19 A I am sorry, could you point to me in the  
20 testimony where --

21 Q Sure, page 11 --

22 A -- so I can read along with you?

23 Q -- line 13.

24 A Okay. Just a moment, please.

25 Okay. So that talks to the optional customer



1 programs that I have listed in one of the earlier  
2 documents that was shown, things like the CNI rooftop  
3 solar; the fleet EV charging that I was asked about  
4 earlier; the residential EV charging. So all of those  
5 programs that are either currently in motion or will be  
6 in motion.

7 **Q So you referenced the commercial and**  
8 **industrial rooftop solar. How does that work? Do you**  
9 **pay for the solar that goes on, or -- I mean, just give**  
10 **me a narrative, if you would, of that program that you**  
11 **are responsible for.**

12 **A** Yeah. So that program isn't in play yet, but  
13 we do have a handful of commercial customers that are  
14 interested in that program.

15 And so how that works, and I think more  
16 importantly, how it benefits all ratepayers, is that our  
17 asset sits on the customer's roof. And so the energy  
18 that's produced then is fed back into the grid. And so  
19 the benefit to the commercial and industrial customer is  
20 they are able to claim RECs towards their sustainability  
21 goals, and then the energy that is placed back into the  
22 grid benefits all rate payers.

23 **Q So if I was a customer that had commercial**  
24 **space and I was very interested in being able to tell**  
25 **people that I am using renewable energy, would I be able**

1 to have that energy flow directly into my building or,  
2 no, it would flow onto the grid?

3 A You know, I don't know that I have all those  
4 intricate details, so I --

5 Q Okay. And I noted that in your -- in the  
6 budget document that you referenced, I think the total  
7 spend was \$200,000. It sounds like the program is just  
8 starting or --

9 A Yes. Yes. We are still in the -- we are in  
10 the -- still in the design phase, so we don't have an  
11 actual customer that has signed up for it quite yet.

12 Q Okay. And then on line 14, you go on further,  
13 and you talk about -- I will just read it and save time:  
14 Facilitate the integration and optimization of  
15 customer-owned distributed energy, paren, solar,  
16 electric vehicles and battery storage.

17 Does that program involve you working with  
18 customers to allow them to do battery storage on their  
19 side of the fence, behind the meter?

20 A Yes. I would say that's the high level vision  
21 of that program. But, again, that's a program that is  
22 still being designed. We are still going through the  
23 design, doing, and thinking, and talking to customers to  
24 try to understand what are they interested in, what are  
25 they willing to pay for, et cetera?

1           Q     Do you know if this program would be modeled  
2 similar to the renewable program, where it becomes an  
3 asset that you have control over?

4           A     Yes.

5           Q     And you would pay for the asset and -- just  
6 like the solar program?

7           A     It is my understanding that the development of  
8 a potential share battery storage program would include  
9 us being in control of the asset. Yes.

10          Q     Do you know how much money in this rate case  
11 you are asking for both of these programs,  
12 approximately? I'm not going to hold you it.

13          A     So I am sorry, could you repeat the -- which  
14 programs do you want me to speak to?

15          Q     The renewable energy -- the commercial and  
16 industrial renewable energy one is one you have  
17 referenced.

18          A     You are talking about what I just spoke about,  
19 the battery storage?

20          Q     Yeah. I am look -- battery storage is  
21 different than the renewable energy, as I understand it,  
22 correct?

23          A     So the renewable energy, as I talked about the  
24 options, was -- is just a broad terminology to encompass  
25 a number of different programs. And so there is a

1 number of optional customer programs that we are  
2 currently working on.

3 **Q Is this list that's in your testimony**  
4 **complete?**

5 A There is a separate attachment -- or I am  
6 sorry -- that we have looked at already a few times  
7 today that lists out each of the optional customer  
8 programs. I can --

9 **Q I saw it. Thank you.**

10 **Let me refer you to page 52 of your testimony.**  
11 **And I have noted -- I don't know that you need the**  
12 **testimony necessarily for the questions, but this is**  
13 **where it comes from.**

14 **You make reference to the low-income energy**  
15 **assistance funds, and that there was a decrease in**  
16 **funding at the state level of those funds; is that**  
17 **right?**

18 A I made reference that there was a decrease at  
19 the federal level of those funds. LIHEAP dollars are  
20 federal dollars.

21 **Q Well, on line 18 of page 52, it references at**  
22 **the state level.**

23 A There is more than just federal assistance.  
24 So there is federal assistance. There is assistance  
25 done through various community agencies. So there is a

1 whole bucket of community assistance. Federal is not  
2 the -- federal is the big bucket with the --

3 **Q Okay. I just want to spend a moment and just**  
4 **understand that, I mean, so that the record is complete**  
5 **and clear.**

6 **There is federal dollars that can flow to help**  
7 **people with their energy bills, is that right?**

8 A Yes. There is LIHEAP dollars that are --  
9 every state, I believe, gets some sort of appropriation  
10 of LIHEAP federal dollars that helps with heating and  
11 cooling for customers.

12 **Q And that word you are using, life --**

13 A LIHEAP. LIHEAP. It's the Low-Income Heating  
14 and Energy Assistance Program.

15 **Q Do you know how much is available to Tampa**  
16 **Electric through that federal program?**

17 A I just know how much has flowed through to our  
18 customers each year, and -- which, I think Mr. Jordan  
19 asked me about earlier, in '21, '22 and '23. Those  
20 are -- those dollars I reference, the 22.5 million in  
21 '22, and I think it was 12.9 million in '23, I believe,  
22 or some -- don't quote me on the exactness of that  
23 amount.

24 **Q Okay. All right. And then I just want to go**  
25 **back to the reference that you have in your testimony**

1 about -- you say: However, Tampa Electric was only able  
2 to provide approximately seven percent of our low-income  
3 population with low-income energy assistance funds due  
4 to a decrease in funding at the state level. Did you  
5 track me on that?

6 A Yes.

7 Q Okay. So can you tell me about the decrease  
8 at the state level, and what that --

9 A So --

10 Q -- state level program was, please?

11 A Sure. And it's not a state level program. I  
12 think I am just -- I am referencing in the document how  
13 the dollars come in.

14 So there is a bucket of federal dollars that  
15 is assigned to the state. So each state gets however  
16 many billions of dollars, and I don't recall how much  
17 money Florida received.

18 And so when Florida receives that money, then  
19 it gets split out amongst the different agencies that  
20 administer the funding for each of the counties. And so  
21 there is a certain amount that each of the agencies  
22 receives. I don't know what all those amounts are, but  
23 that's what I am referring to there.

24 Q Okay. And those are nonprofit agencies that  
25 you work with. So when someone has an issue, you refer

1     **them to the nonprofit, is that how that --**

2           A     Yes.

3           **Q     -- works?**

4           A     That's correct.

5           **Q     It's not a governmental entity?**

6           A     That's correct.

7           **Q     Okay.**

8           A     So the money comes from the government and  
9     flows through the not-for-profit agency to be  
10    administered.

11           **Q     Finally, I have just a couple of questions**  
12    **about this document that was handed out by one of my**  
13    **colleagues.**

14           A     Yes. Let me go back to it.

15                   MR. MOYLE: And just so the record is clear, I  
16     am not sure I got exactly how to identify this  
17     correctly.

18                   Jordan, do you know -- can you help identify  
19     this document?

20                   THE WITNESS: I have it.

21                   MS. HELTON: Exhibit 237 on the CEL.

22                   CHAIRMAN LA ROSA: Thank you.

23                   Hold on one second.

24                   Commissioner Fay?

25                   COMMISSIONER FAY: Yeah. I just want to make

1           sure if it's identified, we can pull it up on Case  
2           Center. I wisely did not accept a copy of the  
3           sheet that I thought was not going to be utilized  
4           as much. So are we able to pull it up? Thank you.

5           MS. WESSLING: And, Commissioner Fay, I think  
6           I have additional copies if you did want one.

7           CHAIRMAN LA ROSA: Go ahead, Jon.

8           BY MR. MOYLE:

9           **Q       So this document is developed as a result of**  
10          **something you have set up only with residential**  
11          **customers, correct?**

12          A       The -- this document is a group of, yes, Power  
13          Panel Engagement Survey participants, customers that  
14          have signed up to offer their input and opinions on  
15          various surveyable items that we might be asking them  
16          about. Yes.

17          **Q       Right. And you were asked a question about**  
18          **industrial, and you said it never comes up. I mean,**  
19          **isn't that part of it, because it's composed of Tampa**  
20          **Electric residential customers in the first sentence**  
21          **under source, August 2023?**

22          A       I am sorry. Where are you at?

23          **Q       See the blue thing right here at --**

24          A       Yes.

25          **Q       -- the very top?**



1 A So if you could repeat the question.

2 Q **Just -- if you would just read the first**  
3 **sentence.**

4 A Yes: Source, August 2023. So the Power Panel  
5 is a customer research panel composed of Tampa Electric  
6 residential customers who have opted in to provide  
7 feedback on an ongoing basis.

8 Q **And this group meets how often?**

9 A There is -- they don't meet. They -- we --  
10 when there are survey opportunities, we send out the  
11 surveys. And then the -- if the participants of the  
12 engagement survey group want to participate in a  
13 particular survey, they just participate in the survey.  
14 So we -- right now, we have a little over, I believe,  
15 2,000 customers that participate.

16 Q **Okay. So there is no obligation. It's just**  
17 **hit or miss as to who is participating based on when**  
18 **they get the survey?**

19 A Sure, based on if -- I would offer based on if  
20 it's a topic that they are interested in, or if it's a  
21 topic that they think is relevant to them.

22 Q **Okay. And then there is a couple of things**  
23 **that are highlighted. I was curious whether they are**  
24 **highlighted because they are the highest percent. I**  
25 **mean, it looks that way on page two. It has a page two**

1 on it to me, senior citizens, 59 percent, and  
2 low-income, 51. And then under the second category,  
3 there is a whole bunch of other categories, and they are  
4 ranked differently, but they still have some  
5 highlighting under those same two categories, is that  
6 right?

7 A Yes. I didn't do the highlighting, so I am  
8 not sure -- certain what the original goal of the  
9 highlight was; but it appears that the groupings that  
10 are highlighted are around helping low-income customers  
11 and helping senior citizens.

12 Q Okay. And then I will preface this by telling  
13 you I am not an expert in these charts and understanding  
14 this, but most times when I am reading something, I am  
15 thinking it's 100 percent, and then when you say 59  
16 percent, that would be if you had 100 people, 59 of the  
17 people said, you know, I'm -- I think we need to do  
18 something for senior citizens. But when you add up  
19 these numbers in terms of a total percentage, it comes  
20 to something like 265. So I was going to ask you if you  
21 could help me understand what the qualitative weight of  
22 these numbers is, or just explain how -- what that  
23 means.

24 A Yeah. So I also am not a qualitative survey  
25 expert, and so I don't know. But I would offer that the

1 question says: Please select up to three causes. So I  
2 would imagine that, as they are selecting the three  
3 causes, all of the customers are selecting three  
4 different causes.

5 **Q Yeah.**

6 A But again, I am not a qualitative survey  
7 expert, so I don't -- I don't want to answer you  
8 incorrectly.

9 **Q Does it -- do you think that would have been**  
10 **300 percent if everybody had three and --**

11 A If they -- if everybody answered all three.  
12 Maybe some customers only answered one. Maybe some  
13 answered two. I don't -- I don't know.

14 **Q Do you have any information and understand**  
15 **why -- well, if you would go down, under the first**  
16 **chart, there is a sentence that says: Other answers.**

17 A Uh-huh. Yes.

18 **Q Other answers include affordable energy,**  
19 **renewable energy, climate change in the environment, is**  
20 **that right?**

21 A Yes. That's what that says.

22 **Q Okay. So those issues are not showing up in**  
23 **the issues with percentages. My assumption is, is that**  
24 **there weren't enough people that said that was important**  
25 **to make it into the chart with numbers, is that fair?**

1           A     So that could be one assumption, or we could  
2     have had a box where a customer could have wrote in  
3     whatever their topic is that might not have been on the  
4     list.  But I don't -- I am not, like, so intimately  
5     familiar with this particular survey that I can know if  
6     there was a box -- a free form box where they could have  
7     wrote that in.

8           **Q     Okay.**

9           A     So it could have been either of those  
10    assumptions.

11          **Q     Thank you for the time.  I appreciate it.  I**  
12    **have no further questions.**

13          A     Thank you.

14                CHAIRMAN LA ROSA:  All right.  Thank you.

15                It's 3:05 now.  So I would like to take a  
16    break, but again, I will give you guys an idea of  
17    timing.

18                So my intentions today are to go to about  
19    seven o'clock.  So with it being around the three  
20    o'clock hour, we will have another break at some  
21    point here, maybe around 5:00-ish, but I think the  
22    intentions are to go until 7:00, more or less,  
23    depending, of course, on where we land with things.

24                But let's go ahead and take a 10-minute break,  
25    and let's reconvene here at around 3:15.

1           Thanks.

2           (Brief recess.)

3           CHAIRMAN LA ROSA: All right. If we can start  
4 finding our seats and get back together here.

5           All right. So just to kind of rehash a little  
6 bit where we are at. FIPUG has just finished with  
7 their line of questioning. Ms. Sparkman is still  
8 here in the witness box, so I am turning this now  
9 over to FEA.

10          CAPTAIN GEORGE: Thank you, Mr. Chairman. I  
11 don't have any questions.

12          CHAIRMAN LA ROSA: Okay.

13          CAPTAIN GEORGE: Thank you, Ms. Sparkman.

14          THE WITNESS: Thank you.

15          CHAIRMAN LA ROSA: Thank you.

16          Next up is a Sierra Club. Your microphone  
17 might be off. Just so you -- there you go.

18          MS. AMIEL: Sierra Club has no questions.  
19 Thank you.

20          CHAIRMAN LA ROSA: Thank you. Sierra Club has  
21 no questions.

22          Retail Federation. I know they are here.  
23 Sorry to make you run.

24          MR. WRIGHT: I apologize, Mr. Chairman. I  
25 have no cross for Ms. Sparkman.

1 Thank you.

2 CHAIRMAN LA ROSA: No problem. Thank you.

3 Walmart.

4 MS. EATON: Thank you.

5 EXAMINATION

6 BY MS. EATON:

7 Q I have just a few kind of follow-up questions  
8 from some questions that Mr. Moyle was asking you  
9 earlier. He had referenced these optional customer  
10 programs that I believe you discuss at page 11, lines 10  
11 through 17, of your direct testimony.

12 And in asking you the questions, I am not sure  
13 I heard you answer his question about the genesis of  
14 those programs, are they -- that you are developing.  
15 Was it from customer request for the programs, or did,  
16 you know, was it a TECO initiative?

17 A So I would offer that it's a mix. I -- you  
18 know, we are constantly -- we are constantly serving and  
19 talking to our customers to understand the types of  
20 programs that they are interested in having and the  
21 types of programs that they are willing to pay for, and  
22 it's a mix --

23 Q Okay.

24 A -- and that's --

25 Q And I just want to make sure that all the

1 different kinds of programs that you listed on page 11,  
2 10 through 17, those were all programs, you, said were  
3 kind of in a design phase. There is -- no customer  
4 signed up for any of it yet?

5 A That is correct. We are in various stages,  
6 mostly design doing. And part of the design doing stage  
7 is where we are talking to customers face-to-face to ask  
8 particular questions related to these programs.

9 Q Okay. And then I think on page 20, lines one  
10 through 10 of your direct, you were explaining that  
11 TECO's optional customer programs technology investments  
12 benefit customers because they improve the company's  
13 portfolio of optional programs by providing customers  
14 more choice and flexibility in how they use our  
15 services. And I want -- can you explain that a little  
16 bit more? Just elaborate on what you are talking about  
17 there.

18 A Could you direct me again, I'm sorry, to the  
19 lines --

20 Q Sure. I think it was page 20, lines one  
21 through 10 of your direct testimony, where you are  
22 speaking about -- still speaking about the optional  
23 customer programs, but then you speak about the  
24 technology investments benefiting customers.

25 A Sure. So -- sure. So just briefly, what I am

1 saying in here is that it's important that we are  
2 thinking ahead and we are designing programs that our  
3 customers will have use for in the future, and have  
4 expressed a desire to need and want for the future. And  
5 so what I am saying here is that the programs that we  
6 aim to design and, at some point execute, we want those  
7 programs to be able to serve a diverse group of our  
8 customers so that, in the list of optional customer  
9 programs, there is always a program or two that any or  
10 all customers would at some point be interested in  
11 signing up for.

12 **Q Sure.**

13 **And what technology investments were you**  
14 **referencing there?**

15 A So we have some different technology-related  
16 initiatives under our decentralization initiative  
17 bucket. I can -- I would be happy to look at the list  
18 and see what specific technologies.

19 **Q Sure. I am just trying to make that**  
20 **connection. It wasn't really clear in the testimony.**  
21 **If you can just provide a little bit more clarification,**  
22 **that would be great.**

23 A I am sorry. I thought I had -- I thought I  
24 had brought a list that spoke to those particular  
25 initiatives, but they are the -- it's a -- it's



1 technology-related initiatives that would fall under  
2 optional customer programs, and so let me try to think  
3 of one.

4 So, like, for example -- like, we offer -- I  
5 am sorry. My mind is going blank on a particular  
6 program.

7 **Q Sure. That's okay.**

8 **If there is a place that I could go to find**  
9 **it, could you direct me to it?**

10 A I don't have that level of detail in the  
11 document.

12 MS. PONDER: Mr. Chairman.

13 CHAIRMAN LA ROSA: Yeah. Go ahead.

14 MS. PONDER: I think it was on exhibit that --  
15 I know it's in the CEL. I apologize. I don't have  
16 the number, but I know LULAC -- it was the response  
17 to the LULAC interrogatory that listed out the  
18 optional programs. If I may just walk over the --  
19 do you know what exhibit it is?

20 CHAIRMAN LA ROSA: Yeah. Yeah. I missed that  
21 last part.

22 MS. PONDER: I was going to walk over my  
23 laptop to the witness so she could look at the  
24 exhibit on her screen. I am sorry. I don't have  
25 the number.

1           CHAIRMAN LA ROSA: Sure. That's okay, so long  
2 as that's where we are questioning off of.

3           MS. EATON: Yeah. That was --

4           CHAIRMAN LA ROSA: Okay.

5           MS. EATON: -- what I think she was  
6 referencing in her answer to me.

7           CHAIRMAN LA ROSA: Okay. All right. I am  
8 okay with that, if it's not in front of her, to put  
9 that in front of her.

10          MS. PONDER: Okay. I don't know what the  
11 number is.

12          MR. LUEBKEMANN: Yeah. It's FLL-180.

13          MS. EATON: Okay. Thank you.

14          CHAIRMAN LA ROSA: FLL-180.

15          MR. LUEBKEMANN: Which is CEL 640. And the  
16 starting page on the master list is going to be  
17 3.3-5864.

18          MS. EATON: Thank you.

19          CHAIRMAN LA ROSA: Okay. I think we have got  
20 it pulled up on the screen.

21          THE WITNESS: Yes. And I -- what I indicated  
22 earlier is that I believe you have asked what is in  
23 the decentralization initiative bucket, and that is  
24 what I don't have the granular detail of the items  
25 that are in that bucket. And I apologize. I

1           didn't bring that. And that's not in the -- we  
2           didn't offer the detail in the exhibits.

3 BY MS. EATON:

4           Q     Okay. And so that's where the technology  
5           investments are located, I guess --

6           A     Yes.

7           Q     -- within -- okay.

8                     And so just sitting here today, you can't  
9           recall what those are?

10          A     You know, I have a team that is responsible  
11          for the creation and ideation of these items, and I  
12          truly don't have the granular detail. It just escapes  
13          me. I don't have it.

14          Q     Okay. Thank you.

15                     I believe on page 41, line 25, through page  
16          42, line eight, of your direct testimony, you stated  
17          that as part of its current petition, TECO plans to  
18          continue its optional customer programs; is that  
19          correct?

20          A     Yes.

21          Q     And as part of the continuation, do you have  
22          any more details on what those plans are?

23          A     So the continue is in reference to us asking  
24          for, you know, for dollars to be able to bring some of  
25          these -- all of these programs to fruition.

1           Q     And by the programs, you are speaking of the  
2     ones we talked about back on line -- I mean, page 11,  
3     where it said: Renewable energy options encourage  
4     customer-side efficiency improvements, facilitate  
5     integration and optimization of customer-owned  
6     distributed energy resources, solar, electric vehicles  
7     and battery storage --

8           A     That's correct.

9           Q     -- that list?

10          A     Yes.

11          Q     Okay. I am just trying to connect the dots --

12          A     Yes.

13          Q     -- within the testimony itself.

14                     And for the plans that TECO has for its  
15     optional customer programs going forward, is it correct,  
16     then -- I think this is referenced on page 42, line six  
17     of your testimony, that that continuation price tag is  
18     \$4.9 million for 2025?

19          A     Yes. That's correct.

20          Q     And I believe you also said that would be --  
21     these programs would be open to all customers, not just  
22     residential or CNI customers, but all customers?

23          A     Yeah. So I would like to clarify that. I  
24     think initially that -- yes, that's what I said. What I  
25     -- what I meant to say, and I think I might have

1 misspoke a tad bit as you repeat that. What I meant to  
2 say is that these programs will benefit all customers,  
3 because there are programs like, I think I explained  
4 earlier, like the residential EV charging program that's  
5 not open to commercial customers, and so forth.

6 **Q Okay. And you said they will benefit all**  
7 **customers. Can you explain that further?**

8 A Sure. So, you know, the example that I used  
9 earlier in relation to the commercial and industrial  
10 rooftop solar, where we place our asset on the  
11 customer's roof, and then the energy that's produced is  
12 sent back out into the grid, and that benefits all  
13 customers.

14 **Q And I believe in that example, you had said**  
15 **that that particular customer, the plan would be for**  
16 **that particular customer to get the RECs from the solar?**

17 A Yes, which they will use towards their  
18 sustainability goals.

19 **Q And would the same be true for any on-site**  
20 **battery that you would place at a customer's site?**

21 A It's too early to speak of the battery  
22 storage, one, because we are, like, in the ideation  
23 phase.

24 **Q You also speak in your direct testimony,**  
25 **starting on page 29, lines seven through nine, about**

1 TECO conducting biannual key account management surveys  
2 to gather customer feedback with the goal of identifying  
3 opportunities for improvement. Do you recall that  
4 testimony?

5 A Yes.

6 Q And does TECO provide opportunities for any of  
7 the key account customers to participate in this program  
8 -- or the surveys, rather? Sorry about that.

9 A I am sorry. Would you repeat the question?

10 Q Sure.

11 Does TECO provide opportunities for any of  
12 its, I guess, key account customers to provide this  
13 feedback as part of TECO's biannual key account  
14 management survey?

15 A If I understand you correctly, the key account  
16 survey goes out to key account customers. And so,  
17 absolutely, they have the opportunity to participate  
18 twice a year in that survey.

19 Q Sure. And that's a different kind of survey  
20 from the ones we have talked about --

21 A Yes.

22 Q -- earlier in your testimony today, is that  
23 right?

24 A Yes.

25 Q Okay. As TECO's Vice-President of Customer

1 **Experience, are you familiar with Walmart's specific**  
2 **current renewable energy and sustainability goals?**

3 A I am not. I have a director that manages that  
4 relationship, and I am not intimately familiar. No.

5 Q **And so that would be a key account manager**  
6 **assigned to our client for the purposes --**

7 A Yes.

8 Q **-- of understanding those goals?**

9 **Have you ever seen those goals before?**

10 A I am sure that I have. I just -- I -- not --  
11 I can't recollect any specifics.

12 Q **Okay. Can we pull up Walmart Exhibit 3, which**  
13 **is CEL Exhibit 818?**

14 A Would that be in my folder anywhere?

15 Q **I don't think so, but I hope that they can**  
16 **bring it up here.**

17 MS. EATON: If we could just go to page four  
18 of that document, that will have what I'm looking  
19 for. Oh, continue on -- page four of the  
20 testimony, I guess it was. Yeah. That's it. Got  
21 it.

22 BY MS. EATON:

23 Q **All right. Can you see that on your screen,**  
24 **or up there on that screen, either one?**

25 A Yes.

1           **Q**     Okay. And I will represent to you that there,  
2     in relation to Tampa Electric's recent FEECA goals  
3     docket, this was the testimony of Walmart in that  
4     particular matter, and there are specific  
5     sustainability --

6           MS. PONDER:  Objection --

7     BY MS. EATON:

8           **Q**     -- goals here --

9           MS. PONDER:  Excuse me, Chairman.

10          CHAIRMAN LA ROSA:  Go ahead.

11          MS. PONDER:  Relevance.

12          MS. EATON:  To the extent that the goals of a  
13          particular customer are relevant to the customer  
14          experience, as well as the development of any of  
15          the optional customer programs, I would --

16          CHAIRMAN LA ROSA:  I am going to allow the  
17          question to continue.

18          MS. EATON:  -- be familiar with it.

19     BY MS. EATON:

20          **Q**     Okay. I am just getting more information  
21     about -- I think you said you might have seen it before,  
22     is that correct?

23          A     As I am -- I am not at all remembering. As I  
24     am reading it, I am not familiar with it. No.

25          **Q**     Sure.



1                   **And would you -- do you know who the account**  
2 **manager is who is responsible for this client**  
3 **relationship?**

4           A       In my organization, I believe, yes.

5           Q       **Okay. And as part of either the optional**  
6 **customer program, or as part of the biannual or the key**  
7 **account management program, would TECO agree to work**  
8 **with Walmart and its other customers in the optional**  
9 **customer program to achieve these sort of renewable**  
10 **energy and sustainability goals?**

11          A       So what I would say is that I -- this is the  
12 first time that I am seeing this document, and so I  
13 would just appreciate the opportunity to review it  
14 before I answer, you know --

15          Q       **Absolutely.**

16          A       -- any questions related to it.

17          Q       **Certainly.**

18                   **It's very short. It's, like, one paragraph, I**  
19 **think.**

20          A       I do -- I would say, high level, you know, you  
21 -- Walmart is an absolute key account customer of ours,  
22 and, of course, we would continue to partner and work  
23 together on, you know, on mutually important goals to  
24 us.

25          Q       **Thank you very much.**

1 MS. EATON: That's all the questions I have.  
2 Thank you.

3 CHAIRMAN LA ROSA: Staff?

4 MR. SPARKS: Staff doesn't have any questions  
5 for Ms. Sparkman.

6 Thank you.

7 CHAIRMAN LA ROSA: Commissioners?

8 COMMISSIONER CLARK: I do, Mr. Chairman.

9 CHAIRMAN LA ROSA: Commissioner Clark, you are  
10 recognized.

11 COMMISSIONER CLARK: Thank you, Mr. Chairman.

12 Just a couple of brief questions about the  
13 survey that's been mentioned. We spent a lot of  
14 time going through the elements of this -- the  
15 power engagement survey, I guess is what you refer  
16 to it as. I guess I have some concerns about using  
17 this to drive programs. Would you consider this a  
18 statistically valid survey?

19 THE WITNESS: I would. And I would say it's  
20 just one -- it's one point, though. It's just one  
21 reference point that we would use. This is not the  
22 be-all, do-all. This is just one way that we gauge  
23 customer interest in programs and services.

24 COMMISSIONER CLARK: So you are saying this --  
25 the customers surveyed here are a representative

1 sample of TECO's customers, and the average age was  
2 57, I think, on the respondents?

3 THE WITNESS: So the average age for this  
4 particular survey, the -- in August 2023 -- for  
5 example, in August '23, the Power Panel Engagement  
6 Survey on price and affordability. So the  
7 participants that elected to participate in this  
8 particular survey, that is the information related  
9 to them. So different surveys have different --

10 COMMISSIONER CLARK: Sure. But I am asking  
11 about statistical -- do you -- can you define  
12 statistical validity in a survey? What makes this  
13 survey statistically valid?

14 THE WITNESS: I don't know what makes it  
15 statistically valid. No.

16 COMMISSIONER CLARK: Okay. That's all.

17 Thank you, Mr. Chairman.

18 CHAIRMAN LA ROSA: Other questions?

19 Seeing none, I will send it back to TECO for  
20 redirect.

21 MS. WESSLING: And, Mr. Chairman, just  
22 briefly, I did have one question. I don't know if  
23 it's more appropriate for me to ask now in  
24 follow-up to Chairman -- excuse me -- Commissioner  
25 Clark's question, but I am happy to wait until

1 after Tampa does their redirect as well.

2 CHAIRMAN LA ROSA: So the question is of the  
3 witness?

4 MS. WESSLING: Yes, just one question. And it  
5 specifically has to do with Commissioner Clark's  
6 question. It's just a follow-up.

7 CHAIRMAN LA ROSA: As long as it's a direct  
8 follow up to the Commissioner's question.

9 MS. WESSLING: It is.

10 FURTHER EXAMINATION

11 BY MS. WESSLING:

12 Q And, Ms. Sparkman, the survey that was just  
13 asked about by Commissioner Clark, you said up to 2,000  
14 different Tampa Electric customers are part of that  
15 particular group that's surveyed?

16 A There is over 2,000 customers that belong to  
17 our Power Panel Engagement Survey group of all ages,  
18 backgrounds, et cetera.

19 MS. WESSLING: That's all. Thank you.

20 CHAIRMAN LA ROSA: Send it back to TECO for  
21 redirect.

22 MS. PONDER: No redirect, Mr. Chairman.

23 CHAIRMAN LA ROSA: Great. Thank you.

24 Then let's go ahead and move exhibits into the  
25 record, starting with TECO.

1 MS. PONDER: Tampa Electric would like to move  
2 in Exhibit 17 into the record, please.

3 CHAIRMAN LA ROSA: Okay. Is 17 the only  
4 exhibit or --

5 MS. PONDER: Yes.

6 CHAIRMAN LA ROSA: Okay. Any objections to  
7 17?

8 Seeing none, show that 17 is entered into the  
9 record.

10 (Whereupon, Exhibit No. 16 was received into  
11 evidence.)

12 CHAIRMAN LA ROSA: And we've got to get an  
13 exhibit number?

14 MS. HELTON: Already been identified, Mr.  
15 Chairman, as 17. So that's --

16 CHAIRMAN LA ROSA: Perfect.

17 MS. HELTON: -- a composite exhibit for all of  
18 their prefiled exhibits.

19 CHAIRMAN LA ROSA: Okay. Perfect.

20 Any other exhibits that need to be moved into  
21 the record, Ms. Wessling?

22 MS. WESSLING: Yes. Thank you.

23 OPC would ask to move into the record exhibits  
24 -- this is Hearing Exhibit 237, 238, 281, 236 and  
25 438.

1 CHAIRMAN LA ROSA: Is there objections?

2 MS. PONDER: No objection.

3 CHAIRMAN LA ROSA: Okay. Seeing none, then  
4 show them entered into the record.

5 (Whereupon, Exhibit Nos. 236-238, 281 & 438  
6 were received into evidence.)

7 CHAIRMAN LA ROSA: Any other exhibits, Florida  
8 Rising?

9 MR. LUEBKEMANN: Thank you, Mr. Chair.  
10 Florida Rising/LULAC would move Comprehensive  
11 Exhibit 55, 51, 640 and 762.

12 CHAIRMAN LA ROSA: Any objections?  
13 Seeing none, show that entered into the  
14 record.

15 (Whereupon, Exhibit Nos. 51, 55, 640 & 762  
16 were received into evidence.)

17 CHAIRMAN LA ROSA: Any other exhibits from any  
18 of the other parties? Walmart?  
19 You might have turned your microphone off.

20 MS. EATON: I am sorry.

21 CHAIRMAN LA ROSA: No problem.

22 MS. EATON: It's on the comprehensive list as  
23 Exhibit 818.

24 CHAIRMAN LA ROSA: 818.  
25 Objections to 818?

1           Seeing none, show that entered into the  
2           record.

3           (Whereupon, Exhibit No. 818 was received into  
4           evidence.)

5           CHAIRMAN LA ROSA:   Other parties?  
6           Seeing none, I think we are good.

7           You are excused.   Thank you very much.  
8           (Witness excused.)

9           CHAIRMAN LA ROSA:   Send it back to TECO to  
10          call your next witness.

11          MR. MEANS:   Thank you, Mr. Chairman.  
12          Tampa Electric calls Carlos Aldazabal.

13          CHAIRMAN LA ROSA:   Mr. Aldazabal, welcome.  
14          Before you sit down, do you mind just taking a  
15          quick oath?

16          Whereupon,

17                                   CARLOS ALDAZABAL  
18          was called as a witness, having been first duly sworn to  
19          speak the truth, the whole truth, and nothing but the  
20          truth, was examined and testified as follows:

21                   THE WITNESS:   I do.

22                   CHAIRMAN LA ROSA:   Thank you.

23                   You may have a seat.   And get yourself  
24          situated, and when you are ready, we will begin.  
25          We are ready when you are.

1 MR. MEANS: Thank you, Mr. Chairman.

2 EXAMINATION

3 BY MR. MEANS:

4 Q Good afternoon, Mr. Aldazabal. Can you please  
5 state your full name for the record?

6 A Sure. It's Carlos Aldazabal.

7 Q And who is your current employer, and what is  
8 your business address?

9 A It's Tampa Electric Company. Business address  
10 is 702 North Franklin Street, Tampa, Florida, 33602.

11 Q And did you prepare and cause to be filed in  
12 this docket, on April 2nd, 2024, prepared direct  
13 testimony consisting of 72 pages?

14 A I did.

15 Q And did you also prepare and cause to be filed  
16 in this docket, on July 2nd, 2024, prepared rebuttal  
17 testimony consisting of 36 pages?

18 A I did.

19 Q Do you have any additions or corrections to  
20 your prepared direct or rebuttal testimony?

21 A There is one correction. On page four of the  
22 direct testimony, witness Richard Latta should be  
23 replaced with witness Jeff Chronister.

24 Q Other than that revision, if I were to ask you  
25 the questions contained in your prepared direct and



1    **rebuttal testimony today, would your answers be the**  
2    **same?**

3           A     Yes, they would.

4                   MR. MEANS:  Mr. Chairman, Tampa Electric  
5           requests that the prepared direct and rebuttal  
6           testimony of Mr. Aldazabal be inserted into the  
7           record as though read.

8                   CHAIRMAN LA ROSA:  Okay.

9                   (Whereupon, prefiled direct of Carlos  
10    Aldazabal testimony was inserted.)

11

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1                   **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**2                   **PREPARED DIRECT TESTIMONY**3                   **OF**4                   **CARLOS ALDAZABAL**

5  
6           **Q.**    Please state your name, address, occupation, and employer.

7  
8           **A.**    My name is Carlos Aldazabal. My business address is 702  
9                   North Franklin Street, Tampa, Florida 33602. I am employed  
10                  by Tampa Electric Company ("Tampa Electric" or the  
11                  "company") as Vice President Energy Supply.

12  
13          **Q.**    Please describe your duties and responsibilities in that  
14                  position.

15  
16          **A.**    I am responsible for the safe, efficient, and reliable  
17                  operation of Tampa Electric's electric generating and  
18                  energy storage assets. My duties include oversight of all  
19                  safety, environment, compliance, team member, operating,  
20                  and capital budget management activities in our Energy  
21                  Supply department. These include power plant operations;  
22                  resource planning; origination and trading; and emerging  
23                  technologies. I am also responsible for the company's  
24                  general procurement and contracting activities.

25

1 I report to our President and Chief Executive Officer,  
2 Archie Collins. One officer, one senior director, and eight  
3 directors report directly to me. Together we lead the  
4 Energy Supply department.

5  
6 **Q.** Please summarize your educational background and business  
7 experience.

8  
9 **A.** I received a Bachelor of Science degree in Accounting and  
10 a Master of Accountancy degree from the University of South  
11 Florida in Tampa, in 1991 and 1995, respectively. I am  
12 licensed as a Certified Public Accountant in the State of  
13 Florida and have 28 years of electric utility experience.

14  
15 I began my career at Florida Power Corporation (now Duke  
16 Energy Florida) and joined Tampa Electric's accounting  
17 department in 1999. After four years, I moved into the  
18 company's regulatory affairs department where I eventually  
19 became Vice President of Regulatory for both Tampa Electric  
20 and its affiliate, Peoples Gas System. I was given a  
21 special assignment in Electric Delivery in 2019 to gain  
22 operations experience before moving to my current position  
23 in 2021.

24  
25 I have worked in the areas of fuel and interchange

1 accounting, surveillance reporting, budgeting and  
2 analysis, cost recovery clause management, rate case  
3 management, investor relations, transmission engineering  
4 and operations, fleet management, stores management,  
5 procurement, and Energy Supply.

6  
7 **Q.** Have you testified before the Florida Public Service  
8 Commission ("Commission")?

9  
10 **A.** Yes. I have testified or filed testimony before the  
11 Commission on behalf of Tampa Electric in the Commission's  
12 annual Fuel & Purchased Power proceedings from 2005 to 2012.

13  
14 **Q.** What are the purposes of your direct testimony?

15  
16 **A.** The purposes of my direct testimony are to (1) describe  
17 the company's Energy Supply system; (2) summarize our  
18 successes transforming Energy Supply since our last rate  
19 case; (3) outline the company's future Energy Supply plans;  
20 and (4) demonstrate that the Energy Supply rate base  
21 amounts and operations and maintenance ("O&M") expense  
22 levels for the 2025 test year are reasonable and prudent.  
23 I will also explain the South Tampa Resilience, Polk 1  
24 Flexibility, Polk Fuel Diversity, Bearss Operations  
25 Center, and Corporate Headquarters projects, which are

1 included in our proposed 2026 and 2027 subsequent year  
2 adjustments ("SYA"), why these projects are prudent, and  
3 how they will benefit our customers.  
4

5 **Q.** How does your direct testimony relate to the direct  
6 testimony of other Tampa Electric witnesses?  
7

8 **A.** I have overall responsibility for the capital investments  
9 and O&M expenses for the Energy Supply area; however, Tampa  
10 Electric witness Kris Stryker, Vice President Clean Energy  
11 and Emerging Technology, reports to me and will discuss  
12 the solar generating and energy storage additions included  
13 in our 2025 test year and SYA. Tampa Electric witness Jose  
14 Aponte, Manager Resource Planning, will show that the  
15 generation, solar, and energy storage included in our 2025  
16 test year and 2026 and 2027 SYA are cost effective.  
17

**Jeff Chronister**

18 Tampa Electric witness ~~Richard Latta~~, Utility Controller,  
19 will compile the 2025 rate base amounts and O&M expense  
20 levels described in my testimony with similar information  
21 from other witnesses to calculate the company's 2025  
22 revenue requirement and proposed 2025 base rate increase.  
23 He also uses the project costs in my testimony for the five  
24 SYA projects listed above to calculate the revenue  
25 requirements for our proposed 2026 and 2027 SYA. Our

1 proposed 2026 and 2027 SYA also include specific solar,  
2 energy storage, and Electric Delivery Projects that are  
3 explained by Mr. Stryker and Tampa Electric witness David  
4 Lukcic, Senior Director Operational Technology and  
5 Strategy, in their testimony.  
6

7 **Q.** Have you prepared an exhibit to support your direct  
8 testimony?  
9

10 **A.** Yes. Exhibit No. CA-1, entitled "Exhibit of Carlos  
11 Aldazabal" was prepared under my direction and supervision.  
12 The contents of my exhibit were derived from the business  
13 records of the company and are true and correct to the best  
14 of my information and belief. My exhibit consists of nine  
15 documents, as follows.  
16

17 Document No. 1 List of Minimum Filing Requirement  
18 Schedules Sponsored or Co-Sponsored by  
19 Carlos Aldazabal

20 Document No. 2 Generation Mix

21 Document No. 3 Total System Heat Rate (2013-2023)

22 Document No. 4 Total CO<sub>2</sub> Emissions (2013-2023)

23 Document No. 5 System Heat Rate and Fuel Savings

24 Document No. 6 Total System Net EAF Percentage

25 Document No. 7 Solar Projects 2021-2023

1 Document No. 8 Headquarters Evaluation Scorecard  
2 Document No. 9 Headquarters Evaluation  
3 Document No. 10 Energy Supply Capital Expense Summary  
4 2022-2025  
5

6 **Q.** Do you sponsor any sections of Tampa Electric's Minimum  
7 Filing Requirement ("MFR") Schedules?  
8

9 **A.** Yes. I sponsor or co-sponsor the MFR schedules listed in  
10 Document No. 1 of my exhibit. The data and information on  
11 these schedules were taken from the business records of  
12 the company and are true and correct to the best of my  
13 information and belief.  
14

15 **(1) ENERGY SUPPLY OVERVIEW**

16 **Q.** Please describe the company's Energy Supply area.  
17

18 **A.** Our Energy Supply area has a combined staff of  
19 approximately 620 employee team members. Its functions  
20 include thermal and solar generating operations;  
21 environmental management; engineering and project  
22 management; resource planning; capital planning; natural  
23 gas origination and trading; energy trading; general  
24 company procurement; stores and inventory management for  
25 Energy Supply and Energy Delivery; and facility services.

1 It includes the Clean Energy and Emerging Technology group  
2 led by Mr. Stryker.

3

4 **Q.** What role does safety play in Energy Supply?

5

6 **A.** Safety is our number one priority. We are committed to the  
7 beliefs that all injuries are preventable and that no  
8 business interest can take priority over safety. We believe  
9 that everyone is responsible for safety and that all team  
10 members must be personally engaged in all aspects of  
11 safety.

12

13 The foundation of our safety program is a multi-tiered  
14 Safety Management System that sets minimum expectations  
15 for safety leadership; addresses risk management;  
16 prescribes programs, procedures, and practices; promotes  
17 safety communications, awareness, and training; cultivates  
18 a strong safety culture and safe behavior; sets contractor  
19 safety management standards; enhances asset integrity;  
20 establishes tools for measurement and reporting;  
21 prescribes incident management and investigates  
22 procedures; and includes auditing and compliance measures.

23

24 I am proud that Tampa Electric's Energy Supply organization  
25 has finished in the top two quartiles when compared to



1 other electric utilities in the Southeast Electric Exchange  
2 for the last three years. Additionally, in 2023 the company  
3 achieved an overall 0.70 incident rate, which is a six  
4 percent improvement from our five-year average.

5  
6 **Q.** Please describe the Clean Energy and Emerging Technology  
7 group.

8  
9 **A.** The Clean Energy and Emerging Technology group is devoted  
10 to diversifying the company's generation mix in a cost-  
11 effective manner for customers. They develop our solar and  
12 energy storage projects and explore innovative  
13 technologies to support our thermal generation units. Mr.  
14 Stryker further explains this group and the work it  
15 performs in his testimony.

16  
17 **Q.** Please generally describe the company's current electric  
18 generating system.

19  
20 **A.** Tampa Electric maintains a diverse portfolio of electric  
21 generating facilities to safely provide reliable, cost-  
22 effective electric power for its customers. Our generation  
23 portfolio consists of 14 thermal generating units and five  
24 thermal peaking units at three central generating stations,  
25 and 22 geographically dispersed solar sites, for a total

1 of approximately 6,433 megawatts ("MW") of winter peaking  
2 capacity. Our generating fleet includes a dual fuel (solid  
3 fuel/natural gas) steam unit; combined cycle units ("CC");  
4 combustion turbine ("CT") peaking units, some of which are  
5 dual fuel (natural gas/oil); a dual fuel (petcoke/natural  
6 gas) integrated gasification combined cycle ("IGCC") unit;  
7 and photovoltaic solar facilities ("solar").

8  
9 **Q.** Please describe the company's central electric generating  
10 stations.

11  
12 **A.** The company's three central electric generating stations  
13 are the Big Bend Power Station ("Big Bend"), the Polk Power  
14 Station ("Polk"), and the H.L. Culbreath Bayside Power  
15 Station ("Bayside").

16  
17 Big Bend consists of two units. The Big Bend Unit 1  
18 modernization project was completed and went in service in  
19 December 2022. The repowered Big Bend Unit 1 is a natural  
20 gas fired two-on-one generating facility. Big Bend Unit 4  
21 is a pulverized coal fired steam unit equipped with a  
22 desulfurization scrubber, electrostatic precipitator, and  
23 a Selective Catalytic Reduction ("SCR") air pollution  
24 control system. We added dual fuel capability to Big Bend  
25 Unit 4 in 2013 so it can also be fired with natural gas.

1 Bayside consists of two natural gas fired combined cycle  
2 ("NGCC") units and four aero derivative CT. Bayside Unit 1  
3 consists of three CT, three Heat Recovery Steam Generators  
4 ("HRSG"), and one steam turbine. Bayside Unit 2 consists of  
5 four CT, four HRSG, and one steam turbine. Bayside Units 3,  
6 4, 5, and 6 are natural gas aero derivative CT.

7  
8 Polk has two units. Polk Unit 1 is a dual fuel IGCC/natural  
9 gas unit consisting of one CT, one HRSG, and one steam  
10 turbine. Polk Unit 2 uses four natural gas CT, four HRSG,  
11 and one steam turbine. Two of the Polk Unit 2 CT can use  
12 distillate oil as a back-up fuel. The Polk Unit 2 CT were  
13 transformed into highly efficient CC generating units  
14 ("Polk 2 Conversion") in 2017.

15  
16 **Q.** Please describe the company's existing solar facilities.

17  
18 **A.** Tampa Electric currently owns and operates solar facilities  
19 with approximately 1,250 MW of generating capacity at 22  
20 geographically dispersed locations throughout its service  
21 territory. All 21 solar facilities are single axis tracking  
22 with capacities ranging from 19.8 MW to 74.5 MW. The Big  
23 Bend Solar facility includes a 12.6 MW energy storage unit.  
24 The company also owns and operates five small solar sites  
25 with a combined generating capacity of less than 8 MW. Mr.

1 Stryker discusses our future planned solar projects in his  
2 testimony.

3

4 **Q.** Please describe the company's current fuel mix for  
5 generating electricity.

6

7 **A.** Since 2013, Tampa Electric has dramatically changed the  
8 mix of fuel we use to generate electricity. In 2013, our  
9 generation mix was 58.7 percent coal, 41.2 percent natural  
10 gas, less than 0.1 percent light oil, and 0 percent solar.  
11 In 2023, about 3.8 percent of our electricity was generated  
12 using coal, about 87.6 percent was natural gas-fired,  
13 approximately 8.6 percent was from solar, and less than  
14 0.1 percent from light oil. The company reduced its tons  
15 of coal consumption by approximately 92 percent since 2013.  
16 Document No. 2 of my exhibit depicts how our generation  
17 mix has changed in the last decade.

18

19 **Q.** Have these changes improved the company's thermal  
20 efficiency?

21

22 **A.** Yes. We measure our thermal efficiency by calculating our  
23 average net system heat rate (Btu/kWh). This calculation  
24 measures the amount of fuel energy we use to generate  
25 electric energy, so a lower number means that we are more

1 efficient because our system needs and uses less fuel  
2 energy to generate a kilowatt-hour ("kWh") of electricity.

3  
4 Our system heat rate has declined from 9,277 in 2013 to  
5 6,755 in 2023, an improvement of about 27 percent over the  
6 last decade. This heat rate reduction means lower air  
7 emissions from power generation and lower fuel costs for  
8 customers. Documents No. 3 and 4, respectively, in my  
9 exhibit detail how our thermal efficiency and emissions  
10 profile have improved since 2013.

11  
12 **Q.** Have these changes to the company's generating facilities  
13 helped reduce the company's annual fuel expenses?

14  
15 **A.** Yes. While market dynamics impact the price of natural gas,  
16 reducing our system heat rate has generated significant  
17 fuel savings for customers. For example, when our system  
18 heat rate was approximately 9,000, and assuming a natural  
19 gas price of \$4 per MMBtu, it would cost \$36 to generate  
20 one megawatt-hour ("MWh") of electricity. However, with  
21 our current heat rate of approximately 6,700, the cost to  
22 generate that same electricity would be \$26.80 per MWh,  
23 which means over 25 percent lower fuel costs for customers.

24  
25 As the company continues to add solar and make efficiency

1 improvements to its existing generating assets, the  
2 company's system heat rate will continue to decline and  
3 result in lower fuel costs for customers. Document No. 5  
4 of my exhibit shows how our system heat rate has declined  
5 since 2016 and the corresponding estimated fuel savings  
6 associated with that decline.

7  
8 **Q.** Please describe the reliability of Tampa Electric's  
9 generating units since 2017.

10  
11 **A.** The reliability of our generating fleet is measured by  
12 generating unit annual net Equivalent Availability Factor  
13 ("EAF"), which reflects the amount of time our generating  
14 units are expected to be in service after accounting for  
15 planned and unplanned outages.

16  
17 We have improved our overall fleet EAF from approximately  
18 78 percent to 81 percent since 2017. Our fleetwide EAF is  
19 a weighted average of performance, with the NGCC fleet  
20 having a higher EAF (high 80's to low 90's) and our older  
21 dual fuel boiler units operating in the low 70's. The lower  
22 EAF across the boiler units is a result of higher wear and  
23 tear caused by coal combustion, resulting in boiler tube  
24 leaks, which corresponds to longer duration planned  
25 maintenance outages. The recent retirement of Big Bend Unit

1 3 in 2023 will yield a higher system EAF starting in 2024.  
2 Document No. 6 of my exhibit provides additional details  
3 on our system EAF since 2017.  
4

5 **(2) ENERGY SUPPLY TRANSFORMATION SINCE LAST RATE CASE**

6 **Q.** What major changes did the company make in its Energy  
7 Supply area since its last rate case in 2021?  
8

9 **A.** The settlement agreement in our 2021 rate case ("2021  
10 Agreement") facilitated two major transformations in  
11 Energy Supply. First, we added over 600 MW of solar  
12 generating capacity. Second, we executed our Big Bend  
13 Modernization Project.  
14

15 **Q.** Please describe the solar facilities placed in service  
16 during the term of the 2021 Agreement.  
17

18 **A.** From late 2021 to 2023, the company installed an additional  
19 595.3 MW of cost-effective solar additions through 11  
20 individual facilities as an installed total cost of  
21 approximately \$850 million. The revenue requirement  
22 associated with these facilities was recovered via two  
23 generation base rate adjustments ("GBRA") approved in the  
24 2021 Agreement and is included in our current base rates  
25 and charges. These additions brought total solar capacity

1 on Tampa Electric's system to over 1.25 gigawatts, or  
2 enough to power 200,000 homes. Document No. 7 of my exhibit  
3 shows additional details about these projects.

4  
5 **Q.** Were these projects constructed and placed in service  
6 consistent with the costs and dates estimated in the  
7 company's 2021 rate case and 2021 Agreement?

8  
9 **A.** Three of the four projects planned in 2021 slipped into  
10 the first part of 2022, which made them eligible for  
11 Production Tax Credits ("PTC") benefiting customers. Due  
12 to the signing of the Inflation Reduction Act ("IRA"),  
13 competition for large scale solar components has increased  
14 resulting in cost pressures on any materials not under  
15 contract. While the PTC improves the cost-effectiveness of  
16 these projects, those benefits were partially offset by  
17 higher component and materials costs. Mr. Stryker provides  
18 additional details on the higher material and component  
19 costs in his direct testimony. All 11 projects contemplated  
20 in the 2021 Settlement Agreement were placed in service by  
21 the end of 2023.

22  
23 **Q.** Please describe the Big Bend Modernization Project.

24  
25 **A.** The Big Bend Modernization Project transformed the way we



1 generate electricity at Big Bend Station. Design work began  
2 in 2017, and field work began in 2019. The company retired  
3 Big Bend Unit 2, refurbished the Big Bend Unit 1 steam  
4 turbine and generator, and replaced the Unit 1 boiler and  
5 coal processing equipment with two new, highly efficient  
6 General Electric 7HA.02 combustion turbines and associated  
7 heat recovery steam generators.

8  
9 The Big Bend Modernization project was constructed in two  
10 phases. In phase one, the company constructed two new  
11 highly efficient CT in simple cycle mode and placed them  
12 in service in 2021. The second phase involved the addition  
13 of the HRSG, facilitating the unit's operation in CC mode,  
14 and was completed in December 2022.

15  
16 The repowered Big Bend Unit 1 went into service in December  
17 2022 and now is the company's most efficient natural gas  
18 combined cycle unit. We repowered Unit 1 as a clean natural  
19 gas-fired two-on-one CC generating facility using an  
20 existing steam turbine generator and once-through cooling  
21 system. Big Bend Unit 1 now has a nominal 1,120 MW of  
22 winter capacity and 1,055 MW of summer capacity with a  
23 6,300 heat rate.

24  
25 Q. Did the company construct and place the Big Bend

1 Modernization Project in service consistent with the costs  
2 and dates estimated in the company's 2021 rate case and  
3 2021 Agreement?  
4

5 **A.** Yes. We forecasted the total cost of the project to be  
6 \$904.6 million, and the actual cost was \$875 million. This  
7 was an extraordinary accomplishment under the challenging  
8 supply chain and macroeconomic environment conditions at  
9 the time. We attribute the lower cost to exceptional  
10 project planning and the use of creative contract terms  
11 for projects of this size and scope, such as use of  
12 competitive bidding of fixed pricing terms for major  
13 equipment and use of competitive bidding followed by open  
14 book negotiation for the construction contract once the  
15 design was finalized.  
16

17 **Q.** What other activities did the company undertake in the  
18 Energy Supply area to benefit customers since 2021?  
19

20 **A.** Our other activities fall into three categories, new  
21 energy storage capacity at Big Bend, an Advanced Gas Path  
22 project at Bayside, and other smaller, more routine  
23 improvements.  
24  
25

1           BIG BEND ENERGY STORAGE

2   **Q.**   Please describe the company's energy storage project.

3

4   **A.**   The company installed a 12.6 MW energy storage unit at  
5           Big Bend and coupled it with a single axis tracking solar  
6           facility there. The energy storage unit went into service  
7           in December 2019 with a total project cost of \$11.5  
8           million. This energy storage pilot has provided valuable  
9           insights on how storage interacts with generation  
10          resources and how best to integrate them into our electric  
11          grid. This project benefited customers as it has provided  
12          valuable insights on how to optimally operate these  
13          storage systems and how to utilize them to drive down  
14          system heat rate.

15

16           BAYSIDE ADVANCED GAS PATH PROJECT

17   **Q.**   What is an Advanced Gas Path ("AGP") Project?

18

19   **A.**   AGP technology is a proprietary performance enhancement  
20          solution developed by General Electric for combustion  
21          turbines that consists of improvements to the cooling  
22          systems, hot section parts redesign, and sealing to  
23          maximize output, efficiency, and flexibility from  
24          existing assets. It is a proven technology that has been  
25          installed on hundreds of gas turbines. The company has

1 applied the AGP solution to Bayside Units 1 and 2.

2

3 **Q.** Please describe the Bayside Unit 1 AGP project.

4

5 **A.** The company completed the AGP work described above for  
6 Bayside Unit 1 in 2022, which resulted in a 10 percent  
7 increase in unit output and a heat rate improvement of  
8 nearly five percent. This translates to direct fuel  
9 savings for customers. By installing fast start  
10 capability, we can synchronize Bayside Unit 1 to the grid  
11 in six to seven minutes, which is a 55 percent  
12 improvement. That translates to better operating  
13 efficiency and an improved system heat rate, which reduces  
14 fuel costs for customers.

15

16 **Q.** Please describe the Bayside Unit 2 AGP project.

17

18 **A.** The Bayside Unit 2 AGP project is essentially the same as  
19 the Unit 1 project. We expect to complete the Bayside Unit  
20 2 portion of the project in the Spring of 2024 and to see  
21 the same type of improvements to Bayside Unit 2 that we  
22 experienced for Bayside Unit 1.

23

24 **Q.** Why were the Bayside AGP projects needed?

25

1     **A.**    Yes. The Bayside AGP upgrades were initiated to help meet  
2            and maintain our winter reserve margin requirements. Our  
3            analysis showed these projects were a very low-cost option  
4            to add 128 MW of output capacity compared to other  
5            generation options. We also anticipated that the projects  
6            would reduce unit heat rate, generate fuel savings for  
7            customers, and provide operational flexibility by  
8            improving start times, which helps us react quickly to load  
9            and supply changes.

10

11    **Q.**    What alternatives did the company consider?

12

13    **A.**    The company considered batteries and other new generation  
14            options, but the cost-effectiveness of these projects  
15            compared to the next best option was \$86.6 million  
16            favorable to customers.

17

18    **Q.**    What did the company do to ensure the projects were or will  
19            be completed at the lowest reasonable cost?

20

21    **A.**    The company issued a request for proposal ("RFP") to  
22            multiple vendors for Output and Efficiency enhancements  
23            for the seven Bayside 7FA combustion turbines. From that  
24            RFP, two main vendors were selected for further  
25            discussions. After more detailed discussions and

1 negotiations with both vendors, General Electric ("GE")  
2 was selected as our preferred vendor for the upgrades. We  
3 then engaged in negotiations with GE for final pricing for  
4 the upgrades. We negotiated firm turn-key pricing to  
5 eliminate any price or market volatility and other unknowns  
6 associated with the outage. For the remainder of the work  
7 not covered by the GE contract, primarily the HRSG and  
8 balance of plant work, we issued another firm price, turn-  
9 key RFP to vendors. Two vendors, Central Maintenance and  
10 Welding and TEIC, were selected for the remainder of the  
11 required work. During the outage, we tracked all additional  
12 work through the "Extra Work Authorization" process to  
13 ensure the validity of the request. Finally, we ensured  
14 cost management with direct Tampa Electric supervision over  
15 all contractors onsite.

16  
17 **Q.** Are the Bayside AGP projects prudent?  
18

19 **A.** Yes. The Bayside AGP projects are part of Tampa Electric's  
20 continuing effort to improve the efficiency, sufficiency,  
21 and adequacy of its facilities. As previously stated,  
22 these projects were needed to meet a winter reserve margin  
23 requirement. These innovative technologies result in  
24 direct fuel savings for customers. The improved unit  
25 flexibility also helps support renewable generation on

1 the grid because the faster response time of the turbines  
2 helps with solar intermittency that can occur during  
3 afternoon storms, cloud cover, and sunrise and sundown,  
4 which has direct fuel savings for customers. These  
5 investments in emerging technologies at Bayside will  
6 allow us to deliver safe, reliable, and efficient power  
7 to customers for many years to come.

8  
9 OTHER PROJECTS

10 **Q.** What other projects did the company undertake in the  
11 settlement period to improve Energy Supply?

12  
13 **A.** The company also invested capital at Polk to improve  
14 reliability by upgrading the relays on the generator step-  
15 up transformers ("GSU") and station transformers,  
16 replaced the 13kV bus and insulators in CT 2, replaced  
17 the brush rigging on CT 2 through 5, and performed  
18 switchgear feeder relay upgrades. That work will  
19 translate to improved unit reliability and availability.

20  
21 Investments at Bayside in addition to the AGP work include  
22 a steam turbine major outage with rotor replacements,  
23 valve overhauls, exciter replacements, and controls  
24 upgrades, which will provide long-term reliability of the  
25 station. Another major investment was the refurbishment

1 of the 60-year-old cooling water intake structure, which  
2 required refurbishment for safety and long-term  
3 reliability. Finally, the station also replaced  
4 circulating water pumps and added a vacuum priming system  
5 which helped improve unit heat rate and upgraded  
6 protection relays that were no longer supported by the  
7 manufacturer.

8  
9 Investments at Big Bend include replacement of the Big  
10 Bend Unit 4 furnace waterwall tubing to improve  
11 reliability and heat rate as the new tubing allows for  
12 increased header pressure and capacity. A new natural gas  
13 addition to the Big Bend Unit 4 boiler created a full  
14 capacity dual fuel operation design. Lastly, in 2024, heat  
15 rate improvements will be realized with the replacement  
16 of the A and B Big Bend Unit 4 hot air expansion joints  
17 and pulverizer inlet ductwork. The C and D pulverizer  
18 joints and ducts were replaced in 2023.

19  
20 RESULTS

21 Q. Have the addition of solar, Big Bend Modernization, AGP,  
22 and the other capital projects during the settlement  
23 period enabled the company to change the way Energy Supply  
24 operates to benefit customers?

25



1     **A.**    Yes. The changes described above have substantially  
2            changed how our generating fleet is dispatched and the  
3            level of O&M expenses required to sustain reliable  
4            operation. Overall Energy Supply employee count will  
5            decline in 2024 and remain constant in 2025.

6  
7     **Q.**    Please explain.

8  
9     **A.**    We are adding employees to operate and maintain our new  
10           solar facilities but need fewer employees at Big Bend for  
11           a net employee reduction in 2024.

12  
13           We use a combination of in-house and contractor resources  
14           to operate and maintain our solar facilities but consider  
15           market dynamics to increase and decrease our use of outside  
16           contractor services while deliberately working to “build  
17           our bench” with employees who are skilled solar operators.  
18           This will allow us to keep solar operating costs down while  
19           developing in-house solar skills and knowledge.

20  
21           The Big Bend Modernization project enabled us to make  
22           staffing and contractor reductions at Big Bend as we  
23           continue to shift away from older generation, which  
24           requires more operating and maintenance personnel, to more  
25           efficient combined cycle units, like repowered Big Bend

1 Unit 1, that need fewer people to operate and maintain.

2

3 **Q.** Were all the changes to the company's generating fleet  
4 described above prudent?

5

6 **A.** Yes. Each change was made considering the conditions and  
7 circumstances known at the time after careful internal  
8 studies that considered safety, reliability, and  
9 economics.

10

11 **(3) FUTURE ENERGY SUPPLY PLANS**

12 **Q.** Are technological improvements, fuel prices, and public  
13 policy considerations continuing to drive changes in how  
14 the company generates electricity?

15

16 **A.** Yes. Technology improvements and tax incentives have made  
17 solar generation a cost-effective alternative to natural  
18 gas-fired generation. Energy storage technology continues  
19 to improve and provides capacity to store power with a  
20 lower cost to generate and helps reduce costs to customers.

21

22 Absent an unforeseen change, the economic viability of coal  
23 for generating electricity will continue to erode, while  
24 the future will remain bright for renewable energy  
25 resources and storage capacity. However, as shown in

1 Document No. 6 of my exhibit, Tampa Electric still relies  
2 heavily on highly efficient NGCC technology to meet a large  
3 portion of our electric generation needs. Natural gas plays  
4 a vital and strategic role in meeting the energy needs of  
5 our customers and will continue playing a crucial role  
6 despite the company's commitment to fuel cost reduction  
7 and fuel diversity.

8

9 **Q.** What future plans does the company have for Energy Supply?

10

11 **A.** In 2024 and 2025, the company plans to add additional solar  
12 generating capacity, energy storage capacity, and begin a  
13 small project, funded primarily by United States Department  
14 of Energy grants, to investigate the suitability of the  
15 geological conditions at and near Polk for underground  
16 carbon storage. Mr. Stryker describes these projects and  
17 why they are prudent in his testimony.

18

19 We have three major planned outages in 2025 and will be  
20 making structural improvements at our generating stations.  
21 I will explain these later in my testimony.

22

23 **Q.** Does the company have other plans for Energy Supply in 2026  
24 and 2027?

25

1     **A.**    Yes. The company plans to place in service six additional  
2           solar facilities and four energy storage capacity  
3           facilities in 2024, 2025, and 2026. These projects, some  
4           of which are included in the company's proposed SYA, are  
5           explained by Mr. Stryker.

6  
7           The company is also planning a Polk 1 Flexibility Project,  
8           a Polk Fuel Diversity Project, and a South Tampa  
9           Resilience Project. I will describe each of these projects  
10          in the SYA section of my testimony, below.

11  
12          STRUCTURE IMPROVEMENTS AT GENERATION STATIONS

13         **Q.**    What are the company's plans to upgrade structures at its  
14           generating facilities?

15  
16         **A.**    While many of the generating units have gone through  
17           conversions, many of the administrative buildings that  
18           house the support staff are still the original buildings.  
19           These buildings require improvements to HVAC systems,  
20           lighting, layout, and facilities and no longer meet  
21           building codes.

22  
23         **Q.**    Why are these improvements needed?

24  
25         **A.**    Tampa Electric's generation stations have all been in

1 service for several decades. For example, some of the  
2 existing buildings at Big Bend and Bayside are more than  
3 50 years old. Those buildings are no longer up to code or  
4 ADA compliant. As repairs are needed, it is sometimes  
5 necessary to remodel the buildings and bring them up to  
6 existing codes to obtain permits to proceed with the  
7 necessary work. These improvements allow employees to  
8 occupy the space in a safe manner with updated facilities.

9  
10 **(4) 2025 RATE BASE AND O&M EXPENSES**

11 RATE BASE

12 **Q.** How does Tampa Electric determine the construction  
13 program and capital budget for the Energy Supply area?

14  
15 **A.** Tampa Electric uses an Integrated Resource Planning  
16 ("IRP") process. The IRP process determines the timing,  
17 type, and amounts of additional resources required to  
18 maintain system reliability in a cost-effective manner.  
19 The process considers expected growth in customer demand,  
20 energy efficiency, and conservation programs; existing  
21 and future demand-side management ("DSM") programs; and  
22 a wide range of supply-side generating technologies  
23 applicable to the company's service area.

24  
25 **Q.** How does the company plan and manage its generation and

1 other major capital improvement expansion projects?

2

3 **A.** The company has a mid-term planning process in place to  
4 manage its generation and other major capital improvement  
5 projects. As part of this process, the company conducts  
6 a screening analysis and develops a multi-year business  
7 plan. This plan includes capital and maintenance  
8 forecasts for projects deemed necessary to ensure safety;  
9 maintain or improve performance of existing stations;  
10 capacity, efficiency, and reliability improvements; and  
11 environmental compliance. The company updates the  
12 business plan as new information is obtained.

13

14 Each year the company determines the capital plan for the  
15 following fiscal year. Information regarding generating  
16 unit availability, operating conditions, new regulations,  
17 and environmental compliance is reviewed and considered  
18 for inclusion in the capital plan. Some projects are  
19 required because of new environmental or safety regulations  
20 or considerations. Other projects are prioritized based  
21 upon their relative benefits. Through a review process,  
22 the projects are selected for inclusion in the budget for  
23 the next year. These projects are initiated and executed  
24 by a project team in a method like that for new generation  
25 projects. Each project goes through an estimating and

1 approval process to ensure its benefit and need. These  
2 projects are monitored for cost, schedule, and desired  
3 performance throughout the process until they are completed  
4 and in-service. This process has been particularly  
5 challenging over the last several years due to inflation.  
6 To illustrate, material costs such as Grain Oriented  
7 Electrical Steel (GOES) have doubled since January 2020,  
8 and transformers needed for our solar sites have also  
9 increased nearly 50 percent.

10  
11 **Q.** Does the company consider planned generation outages when  
12 preparing its annual capital budget?

13  
14 **A.** Yes. A proper asset management and maintenance program is  
15 critical to ensure the company's generating assets are  
16 reliable and perform as designed. Tampa Electric works with  
17 the original equipment manufacturer ("OEM") of each  
18 critical asset to ensure outages are taken at the  
19 appropriate intervals and the needed maintenance is  
20 performed. The company also has entered into Contract  
21 Service Agreements ("CSA") with GE, who is the OEM for many  
22 of our CT, to help monitor these assets and ensure parts  
23 are available during planned outages. The company plans  
24 the outages during the shoulder months to ensure generation  
25 resource availability, as well as plans for internal and

1 external resources to oversee and perform the work.

2

3 **Q.** How much capital did the company invest or plan to invest  
4 in the Energy Supply area in 2022 through 2024?

5

6 **A.** The company has invested or plans to invest approximately  
7 \$1.95 billion in capital in Energy Supply projects from  
8 2022 through 2024. Of that capital, approximately \$474.8  
9 million was for solar projects and the Big Bend  
10 Modernization costs approved as part of our 2021 Settlement  
11 Agreement. The remaining \$1.48 billion includes \$114.3  
12 million associated with Environmental Cost Recovery Clause  
13 ("ECRC") and Clean Energy Transition Mechanism ("CETM")  
14 projects, \$372.8 million for future solar and storage  
15 capacity as described in Mr. Stryker's testimony, and  
16 \$394.3 million for the corporate headquarters and Bearss  
17 Operation Center. The remaining \$598.6 million is related  
18 to other rate base capital and SYA projects described later  
19 in my testimony.

20

21 **Q.** What major projects are included in the total for 2022 to  
22 2024?

23

24 **A.** Major projects for 2022 to 2024 fall into eight categories.  
25 Those categories consist of outage capital; plant



1 improvement non-outage capital; blanket capital; ECRC  
2 Capital; CETM capital; AFUDC capital; building renovation  
3 capital; and other.

4  
5 **Q.** How much capital does the company expect to invest in the  
6 Energy Supply area in 2025?

7  
8 **A.** In 2025, the company is planning on spending \$845.5 million  
9 in capital to operate the generating system and address  
10 future growth safely and reliably.

11  
12 **Q.** What major outages are included in the total for 2025?

13  
14 **A.** There are three major needed outages happening in 2025.  
15 These include a 70-day major outage for Bayside Unit 1, a  
16 70-day outage for Polk Unit 2, and a one-month outage for  
17 Big Bend Unit 4.

18  
19 **Q.** Please explain each of the three major outages planned for  
20 2025, what capital work will be done, the expected cost,  
21 and why the expenditures are prudent.

22  
23 **A.** Bayside Unit 1 requires a major outage to replace the steam  
24 turbine Low Pressure ("LP"), High Pressure ("HP"), and  
25 Intermediate Pressure ("IP") rotors. Additionally, an

1 overhaul of the steam valves and an upgrade of the steam  
2 turbine controls are necessary. The total expected capital  
3 costs of the Bayside Unit 1 outage are expected to be \$14.5  
4 million. This outage is necessary because the run hours on  
5 the steam turbine are expected to be 380,000 and beyond  
6 the recommended OEM design of 250,000 hours.

7  
8 Polk Unit 2 requires a major outage to perform a steam  
9 turbine and generator major inspection, HP/IP turbine seals  
10 replacement, blade feathering, IP rotor blade  
11 replacements, and main steam valve and actuator  
12 inspections. The total capital cost for this work is  
13 anticipated to be \$6 million assuming the inspected items  
14 do not require additional capital discovered during  
15 inspection. This outage is necessary because the OEM  
16 recommends a major overhaul at 50,000 hours of operation,  
17 which includes opening and inspecting the turbine and  
18 replacement of parts as prescribed in the OEM's Technical  
19 Information Letters. This will be the first time opening  
20 the turbine since installation in 2017, and the unit is  
21 expected to be at 66,000 hours of operation when completed.  
22 These turbine overhauls are critical to maintain system  
23 reliability and efficiency.

24  
25 Big Bend Unit 4 requires a one-month outage for compressed

1 air system improvements, seawall cathodic protection,  
2 boiler circulating pump work, and intake screen  
3 replacement. The anticipated capital costs to perform this  
4 work are \$3.1 million, and it is needed to continue safe,  
5 reliable unit operation.

6

7 **Q.** Please identify and describe the other major capital  
8 expenditures planned for 2025 in the Energy Supply area.

9

10 **A.** In addition to outage capital, and capital needed to  
11 maintain existing equipment as well as respond to unplanned  
12 outages, capital is being devoted to solar and energy  
13 storage capacity projects described in Mr. Stryker's  
14 testimony. Capital also is needed for the SYA projects  
15 described later in my testimony and the corporate  
16 headquarters and Bearss Operation Center also described  
17 later in my testimony. Finally, capital is needed for  
18 dismantlement activities at Big Bend as part of our CETM,  
19 and a small amount of capital is needed for building  
20 renovations.

21

22 **Q.** How does the amount of production plant for the 2025 test  
23 year compare to the amount of production plant in the  
24 company's 2021 rate case?

25

1 **A.** The production plant will increase by approximately \$1.5  
2 billion since 2021. It is projected to be \$7.8 billion in  
3 2025 versus \$6.3 billion in 2021.

4  
5 **Q.** Please describe the major production plant additions for  
6 2023, 2024, and 2025 as shown on MFR Schedules B-7, B-8,  
7 B-11, and B-12.

8  
9 **A.** For 2023, major production plant additions included \$29.6  
10 million for the Bayside Unit 1 Major Outage and Advanced  
11 Hardware Upgrades, and \$355.4 million for the final tranche  
12 of wave 2 solar.

13  
14 For 2024, major production plant additions include \$49.9  
15 million for the Bayside Unit 2 Major Outage and Advanced  
16 Hardware Upgrades, \$158.1 million for future solar, and  
17 \$20.0 million for energy storage capacity.

18  
19 For 2025, major production plant additions include \$244.9  
20 million for future solar, \$147.5 million for energy storage  
21 capacity, \$113.3 million for the South Tampa Resilience  
22 project, and \$65.5 million for Polk 1 fuel flexibility.

23  
24 The remainder of the additions for these years is  
25 attributable to prudently incurred annual sustaining

1 capital expenditures required to maintain the operational  
2 and environmental reliability of the company's existing  
3 generating fleet and so that those generating units will  
4 remain used and useful for delivery of electric service  
5 to our customers.

6  
7 **Q.** What major production plant projects are in Construction  
8 Work in Progress for 2025 as shown on MFR Schedule B-13?

9  
10 **A.** The Energy Supply Construction Work in Progress major  
11 production plant projects for 2025 include \$247 million  
12 for solar, \$55.9 million for South Tampa Resilience, \$5.8  
13 million for Polk fuel diversity and fuel flexibility  
14 projects and \$44.5 million for an environmental  
15 compliance project.

16  
17 **Q.** With these projects, what does the company expect its  
18 summer and winter reserve margins to be in 2025 and 2026?

19  
20 **A.** Tampa Electric expects its 2025 summer reserve margin to  
21 be 30.5 percent and winter reserve margin to be 22.9  
22 percent. For 2026, the summer reserve margin is expected  
23 to be 30.4 percent and the winter reserve margin to be  
24 23.1 percent.

25

1           O&M EXPENSES

2           **Q.**   How have the company's operating expenses for production  
3           changed since its last rate case?

4  
5           **A.**   The production expense has increased by \$121.0 million,  
6           the majority of which is due to increased fuel costs, and  
7           \$28.2 million is related to base rate expenditures. The  
8           increase in base rate expenditures represents a 29 percent  
9           increase above 2022 levels.

10

11          **Q.**   What items are causing the increase in operating expenses?

12

13          **A.**   The increase in operating expenses is driven by three major  
14          outages taking place in 2025 and incremental solar  
15          operations costs to manage the new solar sites. The  
16          necessary outage work and associated costs are described  
17          later in my testimony.

18

19          **Q.**   What is the forecasted amount for 2025 O&M expense, and is  
20          the amount reasonable?

21

22          **A.**   The forecasted 2025 O&M Production expense is \$809.2  
23          million, of which \$125.1 million are base rate  
24          expenditures. These expenses are necessary to operate the  
25          generation assets in a safe, reliable manner and are

1 reasonable.

2

3 **Q.** What is the performance against the O&M benchmark for 2020  
4 of the company's functional expense for production?

5

6 **A.** The production expense is higher than the benchmark by  
7 \$10.9 million. The variance compared to the benchmark is  
8 due to the timing of planned outages at the company's  
9 generating units for the continued safe, reliable operation  
10 of the units. The difference is also caused by increased  
11 solar generation that provides safe, low-cost energy to  
12 our customers.

13

14 **Q.** What steps has the company taken to reduce O&M expenses in  
15 Energy Supply?

16

17 **A.** Numerous steps have been taken to manage and reduce O&M  
18 expenses within Energy Supply. First, budgets are set in a  
19 bottom-up approach to ensure the spending is necessary and  
20 prudent and then scrutinized in a top-down manner to reduce  
21 discretionary costs. Comparisons to prior year budgets and  
22 results are evaluated, and variances must be justified and  
23 explained. An Energy Supply scorecard is developed that  
24 includes an O&M goal that incents team members to control  
25 costs. Individual generation station budgets are also

1 managed, and station scorecards are shared with team  
2 members throughout the year. In addition, an Energy Supply  
3 continuous improvement pilot initiated in 2024 encourages  
4 team members to find ways to reduce O&M expenses.

5

6 **Q.** What was the employee count for Energy Supply 2022, 2023,  
7 and 2024?

8

9 **A.** The actual employee count for Energy Supply in 2022 was  
10 581, increasing to 607 in 2023 and expected to be 613 in  
11 2024.

12

13 **Q.** What is the projected employee count for Energy Supply in  
14 2025?

15

16 **A.** Energy Supply expects employee count to remain at 613 in  
17 2025.

18

19 **Q.** What factors caused the need to change the employee count?

20

21 **A.** Changes in employee count can be attributed to changes in  
22 generating stations and workload. The retirement of Big  
23 Bend Unit 2 and Unit 3 helped reduce contractors and  
24 employee count; however, the Big Bend Modernization project  
25 and new solar sites required additional employees. The



1 increase in employee count since 2022 is primarily driven  
2 by the increase in solar technicians needed to perform  
3 maintenance on the solar sites.

4  
5 **Q.** How has Tampa Electric been able to manage its O&M  
6 benchmark for the 2025 production expenses?

7  
8 **A.** The Energy Supply organization and the company as a whole  
9 understand that O&M expense control is strategically  
10 important. Additionally, there is an inherent  
11 competitiveness between generation stations to manage  
12 their costs and achieve the best performance metrics. Work  
13 is competitively bid, and employee oversight of service  
14 contract work takes place to ensure the work is performed  
15 and billed in accordance with agreed upon terms. Preferred  
16 source contracts are rarely used and require senior  
17 leadership approval with accompanying justification.  
18 Lastly, to ensure O&M expense is an important consideration  
19 for all employees, it is an incentive goal for team members  
20 in the Energy Supply area and the Tampa Electric  
21 organization.

22  
23 **Q.** Does Tampa Electric incur O&M expenses in conjunction with  
24 a planned outage?

25

1     **A.**    Yes. During planned outages there is a significant amount  
2           of work that must be performed that cannot be capitalized  
3           and is treated as O&M expense. Maintenance, as defined by  
4           FERC accounting instructions, conducted during planned  
5           outages is charged to O&M expense. Maintenance consists of  
6           large tasks that are performed infrequently and have a long  
7           duration. Typical examples are steam turbine inspections  
8           and repairs, replacement of large heat transfer surfaces  
9           in the boiler, and refurbishment of large motors and pumps.  
10          The maintenance performed during these outages is required  
11          to ensure the safe, reliable operation of the generating  
12          units.

13  
14     **Q.**    What is the O&M expense for planned major outages on Tampa  
15          Electric's generating units in the 2025 test year?

16  
17     **A.**    There are extensive O&M costs in major outages that are  
18          required on a regular four-to-five-year cycle, and efforts  
19          are made to stagger these outages to levelize O&M spending.  
20          For the 2025 test year, Bayside Unit 1, Big Bend Unit 4,  
21          and Polk Unit 2 have planned major outages, and the  
22          estimated cost is \$14.5 million in incremental O&M expense.

23  
24     **Q.**    Please describe the work for the major planned outages in  
25          the 2025 test year that will cause O&M expenses to be

1 incurred.

2

3 **A.** The Bayside Unit 1 work is estimated to cost \$6.5 million.  
4 Big Bend Unit 4 outage work is expected to cost \$2.0  
5 million, and the Polk Unit 2 outage O&M expense is expected  
6 to cost \$6.0 million. The scope of this work includes  
7 opening and closing the casing, including vendor costs for  
8 generator and valve inspections and scaffolding. Other O&M  
9 expenses during these major outages include duct repairs;  
10 flushing lube oil and seal oil systems; valve maintenance,  
11 including internal parts replacements; motor and GSU  
12 maintenance; and, for the coal unit, cleaning ash from the  
13 precipitator and boiler slag blasting. This work is  
14 necessary and recurring during major outages.

15

16 **Q.** Has Tampa Electric taken other measures to control  
17 generation O&M costs while maintaining a safe and  
18 productive workplace?

19

20 **A.** Yes. Tampa Electric applies many different approaches to  
21 control costs, including an asset management program to  
22 manage expenses. The company focuses on centralized  
23 contractor work planning and dispatch across all three  
24 generating stations. This broader view of work demands  
25 allows for a more efficient and effective way to control

1 contractor head count and contractor spending. We perform  
2 ongoing assessments of in-house capabilities and cost-  
3 effectiveness versus an external contractor approach. We  
4 utilize internal resources to perform solar operations and  
5 maintenance activities, which has reduced costs while  
6 providing jobs for team members affected by the  
7 modernization of Big Bend.

8  
9 **Q.** Is the overall level of production O&M expense for 2025  
10 reasonable?

11  
12 **A.** Yes. O&M expenses for 2025 are reasonable and prudent. If  
13 the incremental O&M costs associated with the additional  
14 solar sites requiring operations and maintenance personnel  
15 and the three major outages are excluded, O&M expenses will  
16 be managed close to 2022 levels. We will accomplish this  
17 by carefully managing all three major outages which, by  
18 themselves, will have a \$14.5 million impact to the O&M  
19 budget. We will continue to mitigate inflation and standard  
20 labor increases by applying Asset Management procedures,  
21 implementing cost savings and continuous improvement  
22 initiatives, centralizing contractor coordination and  
23 contractor reductions. The company's O&M expenses are also  
24 mitigated by the reduction in reducing wear and tear on  
25 units due to the transition to natural gas at Big Bend and

1 conversion of Polk Unit 1 to a simple cycle natural gas  
2 unit.

3

4 **(5) SYA PROJECTS**

5 **Q.** Please list the SYA projects for which you are responsible  
6 in this proceeding.

7

8 **A.** I am responsible for explaining the Polk 1 Flexibility  
9 Project, the South Tampa Resilience Project, the Bearss  
10 Operations Center, and the company's new Corporate  
11 Headquarters, all of which are included in the company's  
12 proposed 2026 SYA. I also explain the Polk Fuel Diversity  
13 Project, which is included in the company's proposed 2027  
14 SYA.

15

16 POLK 1 FLEXIBILITY PROJECT - 2026 SYA

17 **Q.** Please describe the Polk 1 Flexibility Project and why it  
18 is necessary.

19

20 **A.** The Polk 1 Flexibility Project consists of converting our  
21 existing Polk Unit 1 CC unit to a highly efficient simple  
22 cycle unit with the latest technology to better utilize  
23 that asset. It is expected to cost \$80.5 million and to  
24 be in service in May 2025.

25

1 The Polk Unit 1 CC plant has been in operation for the  
2 past 27 years. The unit uses early GE 7FA turbine  
3 technology and is a one-of-a-kind installation because it  
4 is supplied fuel via the coal gasification process. Gas  
5 turbines like Polk Unit 1 require "major maintenance" at  
6 defined intervals set by the OEM, which is GE in this  
7 case. These maintenance intervals are determined by the  
8 number of running hours, stops, and starts. Polk Unit 1  
9 requires major maintenance in 2025 to ensure the assets  
10 remain safe and reliable. However, the existing  
11 combustion system is no longer supported by GE.

12  
13 Since 2018, Polk Unit 1 has been fueled with natural gas  
14 rather than syngas generated in the gasifier. Undertaking  
15 an "in kind" overhaul in 2025 would result in a unit that  
16 remains tied to the gasifier. The company reviewed all  
17 options and determined that converting the unit to simple  
18 cycle operation would provide the most customer benefits.  
19 This approach results in lower costs, improves the  
20 efficiency of the unit, and results in a nimbler asset that  
21 can follow system loads more quickly. In the event petcoke  
22 becomes more cost-effective than natural gas in the future,  
23 Tampa Electric retains the option to convert the unit to  
24 CC operation by modifying and performing maintenance on  
25 the HRSG.

1 Q. How will this project benefit customers?

2

3 A. The Polk Unit 1 conversion to simple cycle has an  
4 estimated fuel benefit of \$40 million, and an estimated  
5 cumulative present value revenue requirements ("CPVRR")  
6 benefit of \$166.9 million compared to maintaining the same  
7 configuration. It will have lower operating costs because  
8 of the updated and advanced technology, shifting the  
9 maintenance cycles from every 8,000 hours to every 32,000  
10 hours, and improved reliability due to the reduced  
11 maintenance intervals. The simple cycle configuration  
12 increases the unit's flexibility, allowing fast starts,  
13 increased ramp rates, and lower turndowns, which will  
14 allow the company to better optimize our lower cost system  
15 assets. The simple cycle unit will also have an improved  
16 heat rate, which along with flexibility are the main  
17 drivers for fuel savings.

18

19 SOUTH TAMPA RESILIENCE PROJECT - 2026 SYA AND 2027 SYA

20 Q. Please describe Tampa Electric's South Tampa Resilience  
21 Project.

22

23 A. The South Tampa Resilience Project is a Distributed Energy  
24 Resource ("DER") facility located on MacDill Air Force  
25 Base ("MAFB") consisting of two phases. The first phase

1 includes two Reciprocating Internal Combustion Engine  
2 ("RICE") units with a capacity of 37.6 MW and has an  
3 expected commercial in-service date of April 2025. The  
4 second phase includes two additional RICE units and an  
5 Energy Storage Capacity System. Phase 2 is expected to be  
6 in service in June of 2026. The South Tampa Resilience  
7 Project generating units will serve all Tampa Electric  
8 customers during normal operations, providing electricity  
9 to MAFB and the surrounding community. In the extremely  
10 rare event of a validated threat to the military base,  
11 this project supports national security as MAFB can be  
12 electrically islanded and entirely powered by the South  
13 Tampa Resilience Project.

14  
15 **Q.** Why is the South Tampa Resilience Project needed?  
16

17 **A.** The four reciprocating engines are quick start units that  
18 are designed to start at a moment's notice. That quick  
19 start capability provides the company flexibility to better  
20 manage its resources and additional resilience in the  
21 middle of a dense load center. MAFB provided no cost access  
22 to the site in exchange for the added level of resilience.  
23

24 **Q.** What alternatives to the project did the company consider?  
25



1     **A.**     There were no alternatives to the project due to MAFB's  
2             resilience and redundancy requirements. While the load  
3             requirements for the base were only 26 MW, there was an  
4             opportunity to serve the base, help alleviate transmission  
5             constraints, and improve resilience in South Tampa by  
6             adding generation in a relatively small footprint.

7  
8     **Q.**     What steps did the company take to ensure the project was  
9             completed at the lowest reasonable cost?

10  
11    **A.**     The company followed prudent procurement practices for the  
12             South Tampa Resilience Project. All major contracts were  
13             competitively bid and thoroughly evaluated prior to  
14             contract award. Tampa Electric staffed the project with  
15             skilled project management, engineering, and construction  
16             management staff to ensure that the work was completed in  
17             an efficient, high-quality manner. Tampa Electric's site  
18             management team engages frequently with the suppliers and  
19             construction team to identify opportunities to remove  
20             obstacles and resolve potential concerns. Progress in the  
21             field is cross-checked with invoices to ensure that the  
22             project is billed consistently with the contract terms.  
23             Payment of invoices occurs only after Tampa Electric  
24             confirms that the contract requirements have been met.  
25             These practices help to ensure that Tampa Electric delivers

1 a high quality, reliable, and safe power plant at the  
2 lowest reasonable cost.

3

4 **Q.** What benefits will the project provide to customers?

5

6 **A.** The South Tampa Resilience Project strengthens the  
7 company's near-term reserve margins and further insulates  
8 customers from an extreme weather event such as winter  
9 storm Uri in Texas that occurred in February 2021 and storm  
10 Elliott along the U.S. east coast in December 2022.  
11 Additionally, customers benefit by having four cost-  
12 effective, highly reliable resources that can be dispatched  
13 instead of larger CT, more frequently resulting in fuel  
14 savings. The cumulative projected fuel savings to customers  
15 for this project is expected to be \$137.9 million.

16

17 **Q.** Will the project require new employees?

18

19 **A.** Yes. These four reciprocating engines and energy storage  
20 capacity will require five additional employees. There will  
21 be multiple shifts during the week plus weekend shifts to  
22 monitor and maintain the reciprocating engines, which will  
23 be available for dispatch around the clock.

24

25 **Q.** What is the total cost for the South Tampa Resilience

1 Project?

2

3 **A.** The total cost of the South Tampa Resilience Project  
4 excluding energy storage is forecasted to be  
5 approximately \$160 million, including AFUDC.

6

7 **Q.** Is the project prudent?

8

9 **A.** Yes. The project will help Tampa Electric maintain summer  
10 and winter reserve margins greater than 20 percent as  
11 load continues to grow. The project is expected to achieve  
12 \$137.9 million in fuel savings for customers and will  
13 provide additional resilience in a highly populated,  
14 dense load center with limited space to add transmission  
15 or new generation.

16

17 BEARSS OPERATIONS CENTER - 2026 SYA

18 **Q.** Please describe Tampa Electric's Bearss Operations Center  
19 and Energy Management System ("EMS") project.

20

21 **A.** The Bearss Operations Center is a modern, storm-hardened,  
22 secure operation center that will replace Tampa  
23 Electric's Energy Control Center ("ECC") and Ybor Data  
24 Center. The Bearss Operations Center and EMS project is  
25 a multi-year project to physically relocate Tampa

1 Electric's control and data centers into a single,  
2 Category 5 hurricane rated facility. This new facility is  
3 designed to withstand major hurricanes, protect all  
4 company cyber assets, and operate the utility command and  
5 control capabilities for the next 40 years. The project  
6 includes EMS upgrades, such as new map boards and  
7 dispatching consoles, to properly match the operating  
8 assets within the Bearss Operations Center.

9  
10 **Q.** Please describe Tampa Electric's existing ECC.

11  
12 **A.** Tampa Electric's ECC became operational in 1989. The  
13 facility houses the company's grid operations functions.  
14 The building was designed using 1980s technology and  
15 building codes, and the existing ECC is approaching the  
16 end of its useful life.

17  
18 **Q.** Please describe Tampa Electric's existing Ybor Data  
19 Center.

20  
21 **A.** Tampa Electric's Ybor Data Center also became operational  
22 in 1988. This facility serves as Tampa Electric's prime  
23 data center and customer contact center. The building was  
24 designed using 1980s technology and building codes. Like  
25 the existing ECC, this facility is not hardened to

1           withstand a major hurricane and is located within a storm  
2           evacuation zone.

3

4   **Q.**    Why did the company conclude that it needed to replace the  
5           ECC and Ybor Data Center?

6

7   **A.**    The company's decision is based on three main factors -  
8           storm resilience, space needs, and strategic objectives.

9

10   **Q.**    How will construction of the Bearss Operations Center  
11           improve storm resilience?

12

13   **A.**    The existing ECC is at risk from high storm surge. The  
14           facility is in Hillsborough County evacuation zone B and  
15           is located just a half mile from the Palm River, which  
16           directly connects to Tampa Bay. If a major hurricane  
17           tracked directly into Tampa Bay, the ECC would not be able  
18           to withstand the wind speeds and storm surge expected in  
19           its location, meaning the company would be forced to  
20           relocate operations control to the company's much smaller  
21           alternate Secure Center. Similarly, the Ybor Data Center  
22           is located only a short distance from Tampa Bay and would  
23           be subject to high winds and storm surge in the event of a  
24           major hurricane tracking into Tampa Bay. The new Bearss  
25           Operations Center will be located in a safer, higher, and

1 more inland location and will be designed to withstand  
2 major hurricane winds up to 171 mph sustained.

3

4 **Q.** What are the company's space needs that drive the need for  
5 the Bearss Operations Center?

6

7 **A.** In 2021, the company performed an assessment of the space  
8 necessary to accommodate current and future operations  
9 functions. The assessment concluded that the existing ECC  
10 was at its maximum capacity, with limited space to expand  
11 for customer growth and emerging business requirements.

12

13 **Q.** What are the strategic objectives that drive the need for  
14 the Bearss Operations Center?

15

16 **A.** The Bearss Operations Center is designed to accommodate  
17 the company's future grid reliability requirements and grid  
18 decentralization. The facility will incorporate new  
19 industry best practices, including a Renewables Control  
20 Center ("RCC") and a Diagnostic and Drone Center ("DDC").  
21 The company also will be able to implement an EMS upgrade  
22 to properly match the operating assets within the Bearss  
23 Operations Center, such as new map boards and dispatching  
24 consoles.

25

1 Q. How did the company determine that the Bearss Operations  
2 Center Project is the best option to address the  
3 resilience, space, and strategic needs you described?  
4

5 A. Tampa Electric implemented a systematic approach to  
6 evaluate how to address these needs. This approach included  
7 several steps.  
8

9 First, Tampa Electric sought industry-wide advice and input  
10 from our Southeastern Electric Exchange and North American  
11 Transmission Forum Partners and conducted site reviews of  
12 several control centers to support information gathering.  
13

14 Second, the company issued a RFP from reputable and  
15 experienced Architecture and Engineering ("A&E") firms  
16 with expertise in programming, evaluating, and designing  
17 Control Centers and Data Centers. Tampa Electric ultimately  
18 selected an A&E firm through this process.  
19

20 Third, Tampa Electric and the A&E firm worked together in  
21 two phases to select the best option to address these  
22 needs.  
23

24 Q. Please describe the two phases in the selection process.  
25

1     **A.**     In Phase I, Tampa Electric and the A&E contractor worked  
2             together to evaluate existing Tampa Electric facilities  
3             and future space plans for those facilities; potential new  
4             site locations; and conceptual site layouts. Site location  
5             criteria included size, security risk, flood zone, storm  
6             surge exposure, topography, environmental conditions,  
7             distance from strongest winds from hurricane, employee  
8             commute, site ingress and egress, proximity to major  
9             highways, proximity to load center, water supply, and relay  
10            service capability.

11  
12            In Phase II, the company considered the location options  
13            and criteria identified in Phase I and developed site and  
14            building construction documents for the new facility and  
15            for renovations of existing facilities.

16  
17            At the end of this process, Tampa Electric determined that  
18            the Bearss location was the best option to meet the  
19            company's needs.

20  
21     **Q.**     Why was the Bearss location selected as the best option?  
22

23     **A.**     As previously stated, the current ECC and Grid Control  
24             Center has reached its end of useful life as it is  
25             approaching 40 years old using 1980's technology and



1 building codes. A modern, more resilient, storm-hardened  
2 facility will allow Tampa Electric to respond faster to  
3 customer outages without having to recover its own control  
4 of the grid first. The design for the new facility also  
5 considered other potential threats such as physical,  
6 biological, and chemical, to further enhance the resilience  
7 of the facility. The ability to implement new technologies  
8 will provide customers with more reliable service in both  
9 'blue sky' and 'black sky' conditions. It will also serve  
10 to attract and retain the best and brightest employees to  
11 implement, operate, and maintain these new technologies.

12  
13 **Q.** Please explain the process Tampa Electric employed for  
14 awarding contracts for the construction and design of  
15 Bearss Operations Center.

16  
17 **A.** In accordance with Tampa Electric procurement processes  
18 and procedures, the company identified an initial list of  
19 potentially qualified candidates and sent RFP to these  
20 candidates. From these RFP, the company evaluated each  
21 candidate based on experience, expertise, and capability,  
22 along with pricing. In the case of the design team, each  
23 candidate was provided with a full description of the  
24 project and with detailed requirements. Once the detailed  
25 design documents were developed with the successful design

1 team, this information was provided to the list of  
2 potential construction candidates for their submittal.  
3 Each construction submittal was evaluated based on  
4 experience, expertise, and capability, along with pricing.

5

6 **Q.** What is the total project cost for the Bearss Operations  
7 Center and EMS project?

8

9 **A.** The total project cost for the Bearss Operations Center  
10 and the EMS project is \$335.0 million. The budgeted costs  
11 are as follows.

12

13	Land Acquisition Costs	\$ 10.9 million
14	Architectural Services	\$ 6.1 million
15	Facility Construction Costs	\$224.1 million
16	EMS	\$ 27.6 million
17	IT & Telecomm Costs	\$ 24.1 million
18	Other Owners Costs	\$ 22.9 million
19	Contingency	\$ 19.3 million
20	Total	\$335.0 million

21

22 **Q.** Please provide a background of the purpose of EMS and why  
23 the upgrade is needed.

24

25 **A.** The upgrade is necessary for several reasons. First, the

1 current version of the EMS software does not have the  
2 capabilities to support the grid's overall performance and  
3 will be going out of support. The existing version of EMS  
4 went in-service in 2017. Typically, Tampa Electric upgrades  
5 the EMS environment every seven years to stay current with  
6 industry requirements and the evolution of information  
7 technologies. Second, the BOC facility will have new  
8 situational awareness features such as visual displays,  
9 alarming features, operator consoles, and training  
10 simulators, all needing a new EMS configuration to ensure  
11 system monitoring and control integrity. Finally, the  
12 latest release of the EMS platform offers new  
13 functionalities.

14  
15 **Q.** What new benefits will customers see from the EMS Upgrade?

16  
17 **A.** There are numerous customer benefits for the new EMS  
18 Upgrade. As mentioned above, the new EMS system will  
19 provide new functionalities. These include features that  
20 will strengthen and modernize the grid; provide flexibility  
21 to accommodate new technology options and advancements;  
22 optimize the use of our generation system by incorporating  
23 energy storage capabilities, improving the generation and  
24 transmission of renewables; provide Wide Area Monitor  
25 System ("WAMS") capabilities that provide insights on

1 system oscillations and inertia, allowing the company to  
2 proactively identify and address system stability issues;  
3 and provide Intelligent Alarm Processes ("IAPS") that will  
4 enable faster and more informed decision making during  
5 abnormal system conditions. This upgrade will have the  
6 additional benefits of coupling EMS to a new operation  
7 center expanding situational awareness, expanding  
8 controls, and driving broader customer reliability  
9 satisfaction.

10  
11 This upgrade will also enhance the company's dispatching  
12 capabilities by providing:

- 13 1. Access up-to-date forecasts for renewable energy  
14 production.
- 15 2. Utilize renewable energy dispatch to manage  
16 congestion, stability, and other factors.
- 17 3. Improve equipment lifespan, reduce losses, and  
18 enhance security through VAR dispatch.
- 19 4. Control battery charging and dispatch.
- 20 5. Enable the Distributed Energy Resource System  
21 (DERMS).
- 22 6. Efficiently manage different types of assets, such as  
23 storage and solar power.
- 24 7. Model energy storage systems and renewable energy  
25 sources.

1           8. Use forecasted values when real-time data is not  
2           available.

3

4   **Q.**    What is the status of the Bearss Operation Center?

5

6   **A.**    The Bearss Operation Center is currently under construction  
7           with an anticipated in-service date of June 2025. As of  
8           December 2023, the construction project is approximately  
9           20 percent complete. By the end of 2024, the Bearss  
10          Operation Center is expected to be 90 percent complete.

11

12          The EMS project started in January 2023 and is  
13          approximately 32 percent complete. The EMS in-service date  
14          aligns with the first day of dispatching, which is expected  
15          to be October 1, 2025.

16

17   **Q.**    What is the estimated certificate of occupancy date for  
18          the Bearss Operation Center?

19

20   **A.**    The estimated certificate of occupancy for the Bearss  
21          Operation Center is May 29, 2025.

22

23   **Q.**    How will the Bearss Operations Center benefit customers?

24

25   **A.**    The Bearss Operation Center project is part of Tampa

1 Electric's continuing effort to improve the efficiency,  
2 resiliency, and reliability of its facilities. Tampa  
3 Electric's customers will see many benefits from the  
4 project. As I mentioned previously, the current ECC and  
5 Grid Control Center is nearly 40 years old and has reached  
6 the end of its useful life. Having a more resilient, storm  
7 hardened facility will allow Tampa Electric to respond  
8 faster to customer outages without the need to relocate  
9 to the backup control center. The design for the new  
10 facility also considered other potential threats such as  
11 physical, biological, and chemical, to further enhance  
12 the resilience of the facility. The ability to implement  
13 new technologies will provide customers with more  
14 reliable service in both blue sky and black sky  
15 conditions. It will also serve to attract and retain the  
16 best and brightest employees to implement, operate, and  
17 maintain these new technologies.

18  
19 Tampa Electric Corporate Headquarters - 2026 SYA

20 **Q.** Please describe Tampa Electric's Corporate Headquarters  
21 Project ("Corporate Headquarters").

22  
23 **A.** Tampa Electric is relocating its corporate headquarters  
24 from its current location in TECO Plaza in Downtown Tampa  
25 to a new 18-story tower in Midtown Tampa. Tampa Electric

1 will purchase a portion of the new tower as well as the  
2 rights to approximately 740 parking spaces. The new  
3 corporate headquarters will house Tampa Electric and our  
4 affiliate Peoples Gas System, Inc. ("Peoples"). Tampa  
5 Electric will occupy six floors, Peoples will occupy three  
6 floors, and employees of both will share two assembly  
7 floors containing meeting rooms and amenities for both  
8 companies. Each company will own its share of the tower.  
9 Construction of the new tower is still underway, and Tampa  
10 Electric expects to receive a Certificate of Occupancy in  
11 the Summer of 2025 with an anticipated in-service date of  
12 June 1, 2025.

13  
14 **Q.** Why is the Corporate Headquarters project necessary?

15  
16 **A.** Tampa Electric has leased TECO Plaza for 40 years. The  
17 company's existing lease expires in 2025. As the expiration  
18 date for the lease approached, the company began a formal  
19 process to evaluate multiple options for the company's  
20 future corporate headquarters needs. At the end of this  
21 process, the company determined that the new Corporate  
22 Headquarters was the best option for both the company and  
23 for customers.

24  
25 **Q.** Please describe the process the company used to evaluate

1 the options to meet its corporate office needs.

2

3 **A.** Tampa Electric formed an internal team of 18 members that  
4 partnered with Colliers International to explore the option  
5 to lease or own several buildings in the Tampa area. These  
6 locations included TECO Plaza as well as other buildings  
7 in Midtown Tampa, the Water Street District, International  
8 Plaza, and Tampa Heights. The internal team developed ten  
9 scoring criteria for each option including resilience and  
10 security, connection to community, walkability, parking,  
11 nearby amenities, talent recruitment, dedicated elevators,  
12 dedicated lobby, building signage, and sustainability. The  
13 team then heard presentations from developers and scored  
14 all options according to these criteria. A copy of the  
15 final scorecard for all options is included as Document  
16 No. 8 of my exhibit. Based on this scoring, the team  
17 selected the Midtown location as the best option to meet  
18 the company's office space needs.

19

20 **Q.** How will customers benefit from the Corporate Headquarters  
21 project?

22

23 **A.** The Corporate Headquarters project is part of Tampa  
24 Electric's continuing effort to improve the efficiency,  
25 sufficiency, and adequacy of its facilities. Customers will



1 benefit from this project in several ways. First, owning  
2 office space is a better value proposition for customers  
3 than leasing because it should result in the accumulation  
4 of equity. Second, the Midtown location provides greater  
5 resilience in harsh weather conditions as compared to TECO  
6 Plaza because of its inland location and because it will  
7 be built to modern code standards. Third, the Midtown  
8 location offers modern facilities, dedicated parking, and  
9 more efficient floor layouts that will accommodate more  
10 team members, reduce space needs in the future, and improve  
11 employee satisfaction, which should result in lower  
12 employee turnover and costs. Finally, the new headquarters  
13 will provide flexibility by providing Tampa Electric with  
14 a right of first refusal to lease vacant space on other  
15 floors in the building and the right to sublease portions  
16 of the floors it will own if they are not needed.

17  
18 **Q.** Did the company consider renovating or upgrading the  
19 existing office space in TECO Plaza?

20  
21 **A.** Yes, we considered improving the existing office space,  
22 and the internal team determined that this was not in the  
23 best interests of the company or customers. The primary  
24 basis for this decision is that the cost of completing a  
25 project to upgrade TECO Plaza to modern standards and

1 extending the existing lease agreement would be similar to  
2 purchasing the new office space in Midtown. Furthermore,  
3 there are several issues with TECO Plaza that would not be  
4 resolved by a renovation project. First, TECO Plaza's  
5 location in Downtown Tampa does not offer the same level  
6 of resilience as the new Corporate Headquarters location.  
7 This is especially concerning because the company's  
8 critical backup systems are located below mean sea level  
9 in the basement of the building. Second, the company's  
10 employee count is expected to eventually surpass the  
11 available footprint of the building. Third, TECO Plaza does  
12 not offer dedicated employee parking, which imposes an  
13 additional cost on employees. The lack of available space  
14 and parking can in turn cause issues with employee  
15 recruitment and retention and safety concerns for employees  
16 needing to walk to remote parking lots.

17  
18 **Q.** What is Tampa Electric's cost for the Corporate  
19 Headquarters Project?

20  
21 **A.** Tampa Electric's cost is \$188.7 million, which includes  
22 the purchase of six entire floors and the pro-rated cost  
23 for the two floors shared with Peoples in the building  
24 tower, the rights to 740 parking spaces, and the completion  
25 of the interior floors.

1 Q. How does this cost compare to the other options considered?

2

3 A. Tampa Electric performed a net present value revenue  
4 requirement calculation for the new Corporate Headquarters  
5 and for scenarios in which the company renovates TECO Plaza  
6 and remains in that building and eventually purchases the  
7 existing building. As shown in Document No. 9 of my  
8 exhibit, the three scenarios are nearly equivalent in terms  
9 of cost over the next 30 years.

10

11 Q. What steps did the company take to ensure that it is  
12 obtaining the lowest reasonable cost for the design and  
13 construction of the Corporate Headquarters project?

14

15 A. In late 2020, anticipating the need for design services,  
16 Tampa Electric conducted a Request For Information  
17 ("RFI") in 2021 to select architects. During the process  
18 we interviewed architects with significant experience in  
19 the utility industry, including AECOM, Song & Associates,  
20 RE Lamb, Gensler, and HDR. Ultimately, Gensler was  
21 selected based on Tampa Electric's detailed evaluation  
22 criteria, which included account cost, project management  
23 skills, staffing, work plans, and quality control. Once  
24 Tampa Electric selected the Midtown location with advice  
25 from Gensler and Colliers International, the company

1 worked with the Midtown building developers (Bromley and  
2 Highwoods Properties) to competitively select a  
3 contractor for the construction of the project. Tampa  
4 Electric evaluated a pool of five companies, including JE  
5 Dunn, Kast, Barr and Barr, DPR, and Brasfield and Gorrie.  
6 The company selected Brasfield and Gorrie based on over  
7 two dozen criteria used to evaluate the teams and pricing.  
8

9 **Q.** Why doesn't Tampa Electric continue to lease its existing  
10 building?  
11

12 **A.** Continuing to lease an aging building that was designed  
13 over 40 years ago, without parking infrastructure and with  
14 outdated systems and susceptible to low levels of flood  
15 waters, is not in Tampa Electric's best interest. Internal  
16 financial analyses were performed for an own versus lease  
17 scenario, which demonstrated that the purchase option  
18 provided a similar net present value ("NPV") value over  
19 a 30-year period.  
20

21 POLK FUEL DIVERSITY PROJECT - 2027 SYA

22 **Q.** Please describe the Polk Fuel Diversity Project and why  
23 it is necessary.  
24

25 **A.** Two of the five CT at Polk already have liquid fuel

1 capabilities. The Polk Fuel Diversity project is a  
2 strategic effort to add additional fuel diversity to our  
3 generation mix at Polk by adding the same dual fuel  
4 capabilities to the remaining three CT using  
5 infrastructure that is already in place at the site. In  
6 the last five years Tampa Electric has retired two  
7 pulverized coal units, placed one in long-term reserve,  
8 and converted one into a highly efficient natural gas  
9 combined cycle unit. Now, over 80 percent of Tampa  
10 Electric's generation is fueled by natural gas. This  
11 project helps to mitigate fuel supply disruption risk and  
12 energy demand in excess of natural gas supply and  
13 transportation capability.

14  
15 **Q.** What will the Polk Fuel Diversity project cost?

16  
17 **A.** This project is estimated to cost approximately \$53.9  
18 million.

19  
20 **Q.** What options did the company consider before undertaking  
21 this project?

22  
23 **A.** The company explored multiple options for mitigating  
24 these risks and determined that adding additional liquid  
25 fuel capacity to the remaining three CT was the most cost-

1 effective option. Initial screening options included the  
2 evaluation of capacity and storage, liquified natural gas  
3 ("LNG") storage, incremental firm gas transportation,  
4 solid fuel generation, purchased power, transmission, and  
5 renewable generation. After removing options that were  
6 too expensive or did not mitigate the fuel risk, the  
7 remaining viable options were LNG or oil.

8  
9 Tampa Electric initially considered using LNG in a local  
10 storage facility to meet the backup fuel supply need.  
11 While this approach provided significant backup supply  
12 optionality and avoided generation unit modifications to  
13 burn liquid fuel, high capital expense and long-term O&M  
14 cost uncertainty coupled with permitting complexities and  
15 potential community opposition eliminated liquified  
16 natural gas as a viable option.

17  
18 Tampa Electric also explored constructing an oil pipeline  
19 from the Port of Tampa Bay petroleum storage tanks to  
20 Bayside and adding liquid fuel capability to the CT and  
21 aero derivative units. This solution was appealing since  
22 it used existing assets and large quantities of oil  
23 located relatively close to the station. However, this  
24 option is not viable due to permitting uncertainty of  
25 constructing an oil pipeline under the shipping channel

1 and terminal suppliers' unwillingness to commit large  
2 storage volumes reserved for Tampa Electric.

3  
4 This left the options of adding oil to Polk--where oil  
5 tanks already exist and two units are dual fuel capable--  
6 -or build new fuel oil capacity adjacent to Tampa Bay at  
7 either Bayside or Big Bend. Using Polk is the most logical  
8 option due to its inland location and existing  
9 infrastructure for operating and maintaining units with  
10 liquid fuel capability.

11  
12 **Q.** How will this project benefit customers?

13  
14 **A.** The Polk Fuel Diversity project is part of Tampa  
15 Electric's continuing effort to improve the efficiency,  
16 sufficiency, and adequacy of its facilities. This project  
17 will mitigate our customers' exposure to natural gas  
18 supply disruption risk. Adding additional backup liquid  
19 fuel capacity at Polk reduces Tampa Electric customers'  
20 risk of interruption from events including terrorism,  
21 cybersecurity, a major operational natural gas pipeline  
22 failure, or an extreme weather event like storm Uri that  
23 hit Texas in February of 2021 or storm Elliott that  
24 impacted the entire east coast of the United States in  
25 December 2022. Tampa Electric has a strong, diversified

1 natural gas supply and transportation portfolio. But  
2 should an extreme event interrupt fuel supply or  
3 significantly increase demand in Florida, Tampa Electric  
4 will need all its resources, including additional oil at  
5 Polk, to overcome the loss of supply or with the dramatic  
6 increase in demand. The project is anticipated to be in  
7 service December 1, 2026.

8  
9 **(6) SUMMARY**

10 **Q.** Please summarize your direct testimony.

11  
12 **A.** My direct testimony provides an overview of the company's  
13 generating system and its evolution over the past decade  
14 to improve the reliability and efficiency of its  
15 generating assets resulting in significant fuel savings  
16 for customers. I describe how the company's capital budget  
17 for 2024 and projections for 2025 and beyond are  
18 reasonable and prudent. I also demonstrate that the  
19 company's proposed O&M expenses for Energy Supply in the  
20 2025 test year are reasonable and prudent. I describe  
21 important capital projects that the company has placed in  
22 service to improve fuel diversity, resilience,  
23 reliability, customer experience, and environmental  
24 profile that are prudent and in the best interest of our  
25 customers.



1 Finally, I cover five SYA projects that are needed for  
2 generating system flexibility that results in fuel  
3 savings for customers, fuel diversity to generating  
4 systems, and resilience in a period of larger and more  
5 intense storms. While the company has been fortunate not  
6 to experience a direct impact from a major hurricane, it  
7 is crucial that we have an operations center and  
8 headquarters that are hardened and in non-flood prone  
9 areas so that the company can respond and restore service  
10 to customers during such an event.

11

12 **Q.** Does this conclude your direct testimony?

13

14 **A.** Yes, it does.

15

16

17

18

19

20

21

22

23

24

25

1                   (Whereupon, prefiled rebuttal of  
2 Carlos Aldazabal testimony was inserted.)

3

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BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 20240026-EI

PETITION FOR RATE INCREASE  
BY TAMPA ELECTRIC COMPANY

REBUTTAL TESTIMONY AND EXHIBIT  
OF  
CARLOS ALDAZABAL

TAMPA ELECTRIC COMPANY  
DOCKET NO. 20240026-EI  
FILED: 07/02/2024

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TAMPA ELECTRIC COMPANY  
DOCKET NO. 20240026-EI  
FILED: 07/02/2024

1                   **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2                                   **REBUTTAL TESTIMONY**

3   **OF**

4   **CARLOS ALDAZABAL**

5  
6   **Q.**   Please state your name, address, occupation and employer.

7  
8   **A.**   My name is Carlos Aldazabal. My business address is 702  
9           North Franklin Street, Tampa, Florida 33602. I am employed  
10          by Tampa Electric Company ("Tampa Electric" or the  
11          "company") as Vice President Energy Supply.

12  
13   **Q.**   Are you the same Carlos Aldazabal who filed direct  
14          testimony in this proceeding?

15  
16   **A.**   Yes.

17  
18   **Q.**   Have your title and duties and responsibilities changed  
19          since the company filed your prepared direct testimony on  
20          April 2, 2024?

21  
22   **A.**   No.

23  
24   **Q.**   What are the purposes of your rebuttal testimony?  
25

1     **A.**    My rebuttal testimony serves three general purposes.

2

3           First, I will address the proposal from the Office of  
4           Public Counsel's ("OPC") witness Lane Kollen to disallow  
5           planned generation maintenance expense based on a  
6           normalized number.

7

8           Second, I will respond to the direct testimony of witness  
9           Karl Rábago, filed on behalf of the League of United Latin  
10          American Citizens ("LULAC") and Florida Rising, and his  
11          arguments that the Corporate Headquarters, Polk Fuel  
12          Diversity, and Sowuth Tampa Resilience Projects should be  
13          disallowed.

14

15          Third, I will respond to the direct testimony of Devi  
16          Glick, filed on behalf of the Sierra Club, and Ms. Glick's  
17          recommendations regarding Big Bend Unit 4 and Polk Unit  
18          1. I will also respond to the proposed issues raised by  
19          Sierra Club based on Ms. Glick's testimony.

20

21     **Q.**    Have you prepared an exhibit supporting your rebuttal  
22          testimony?

23

24     **A.**    Yes. Rebuttal Exhibit No. CA-2, entitled "Rebuttal  
25          Exhibit of Carlos Aldazabal," was prepared by me or under

1 my direction and supervision. The contents of this  
2 rebuttal exhibit were derived from the business records  
3 of the company and are true and correct to the best of my  
4 information and belief. My rebuttal exhibit consists of  
5 the following two documents:

- 6
- 7 Document No. 1 Tampa Electric's Answer to OPC's First  
8 Set of Interrogatories No. 7
- 9 Document No. 2 2022 Fuel Savings Associated with  
10 Using Coal

11

12 **I. NORMALIZATION OF PLANNED GENERATION MAINTENANCE EXPENSE**

13 **Q.** On page 11 of his testimony, Mr. Kollen asserts that Tampa  
14 Electric deferred planned maintenance and "bunched the  
15 outages" in the projected test year to inflate test year  
16 planned generation maintenance expense. Is this accurate?

17

18 **A.** No. Outages are scheduled based on planned maintenance  
19 schedules and to accommodate resource and parts  
20 availability. Major planned outage work occurs in uneven  
21 cycles. The uneven nature of planned outage work is  
22 reflected in the information contained in the company's  
23 answer to OPC's First Set of Interrogatories No. 37, which  
24 I have included as Document No. 1 in my rebuttal exhibit.

1 Q. Do you agree with Mr. Kollen's recommendation for  
2 normalization of planned generation expenses in the  
3 company's test year?  
4

5 A. No. Mr. Kollen's normalization proposal is flawed in that  
6 he recommends normalization of historical average costs  
7 rather than the costs the company expects to incur in the  
8 test year. On page 11 of his testimony, he proposes using  
9 an average of expenses starting in the year 2019.  
10 Historical costs are not indicative of needed generation  
11 expenses in the test year.  
12

13 Q. OPC's witness, Mr. Kollen provides an alternative  
14 solution to defer what he calls "abnormally high expense"  
15 more than his calculated level of normalized expense and  
16 amortize that deferral over an extended period. He opines  
17 that this approach would "attempt to allocate the  
18 benefits" of the planned maintenance to the periods  
19 benefitting from the planned maintenance scope of work  
20 and expenses. Please comment on that alternative  
21 approach.  
22

23 A. If the Commission decides to adjust the company's test  
24 year outage expense, then I believe it is appropriate to  
25 defer the costs above the annual allowed or "normalized"



1 amount for recovery in future years. Further, I believe  
2 that such an adjustment, if applied, should be made using  
3 the approach described in the rebuttal testimony of Tampa  
4 Electric witness Jeff Chronister.

5  
6 **II. TAMPA ELECTRIC PERFORMED A FULL COST-BENEFIT ANALYSIS FOR**  
7 **THE CORPORATE HEADQUARTERS**

8 **Q.** On page 51 of his testimony, Mr. Rábago asserts that the  
9 Commission should disallow rate recovery for the  
10 company's Corporate Headquarters "until TECO produces a  
11 comprehensive BCA that fully considers alternatives to  
12 new building construction." Did Tampa Electric perform a  
13 benefit-cost analysis for the project that included  
14 alternatives?

15  
16 **A.** Yes. As I explained in my direct testimony, Tampa Electric  
17 performed a net present value revenue requirement  
18 ("NPVRR") calculation for the new Corporate Headquarters  
19 and compared it to two alternatives. This analysis was  
20 included in Document No. 9 of my Exhibit CA-1. That  
21 analysis shows that there is less than a \$1 million net  
22 present value ("NPV") differential between continuing to  
23 lease the existing corporate headquarters and purchasing  
24 the Midtown location. The company then compared this  
25 quantitative assessment against the resilience and

1           qualitative benefits that the new Midtown location  
2           provides.

3

4           **Q.** Did the company consider alternatives other than  
5           construction of a new headquarters in Midtown?

6

7           **A.** Yes. As stated in my direct testimony, Tampa Electric  
8           partnered with Colliers International, a global  
9           commercial real estate company, to explore various lease  
10          or own locations throughout our service area. Some of  
11          these options are listed on Document No. 8 of my Exhibit  
12          CA-1. The company also evaluated extending the lease of  
13          TECO Plaza or purchasing the existing building, as shown  
14          in Document No. 9 of my Exhibit CA-1.

15

16          **Q.** What qualitative benefits did the company identify for  
17          the Midtown location?

18

19          **A.** As I explained in my direct testimony, the company created  
20          an internal team of 18 director-level employees to  
21          evaluate several criteria, which are listed on Document  
22          No. 8 of my Exhibit CA-1. This team identified Midtown as  
23          the option that provided the highest level of these  
24          qualitative benefits. Additionally, as I explained in my  
25          direct testimony, the company also identified several

1 qualitative drawbacks to remaining in TECO Plaza,  
2 including flooding and storm surge risk, available  
3 capacity limits, and lack of dedicated parking.

4  
5 **Q.** How did the company weigh the expected costs of the TECO  
6 Plaza and the Midtown options against the identified  
7 benefits?

8  
9 **A.** After careful consideration, the company determined that  
10 the Midtown location was the best alternative from a  
11 value, resilience, and employee retention and  
12 satisfaction perspective. Furthermore, as the analysis  
13 proceeded, the need to locate the company's headquarters  
14 away from potential flooding became a more important  
15 priority, especially since the economics of the options  
16 being considered were about the same. The company weighed  
17 the identified qualitative benefits of the Midtown  
18 location against the approximately \$1 million difference  
19 in NPVRR cost and concluded that the benefits outweighed  
20 the \$1 million difference in cost.

21  
22 **III. TAMPA ELECTRIC'S POLK FUEL FLEXIBILITY PROJECT IS**  
23 **NECESSARY, PRUDENT, AND WILL BENEFIT OUR CUSTOMERS**

24 **Q.** Mr. Rábago recommends that the Commission should disallow  
25 the Polk Fuel Diversity Project because the company has

1 not demonstrated the cost-effectiveness of the project.  
2 Do you agree with this recommendation?

3  
4 **A.** No. The decision to invest in a backup oil project of  
5 this nature was based upon the need to mitigate risk.  
6 Even with the growth in the company's solar generation,  
7 Tampa Electric projects over 80 percent of its electricity  
8 for customers will come from natural gas fired generation.  
9 Florida's peninsular geography means that the state and  
10 Tampa Electric can face challenges importing fuel or power  
11 when one or more of the current sources is constrained or  
12 fully subscribed. The fact that surrounding  
13 interconnection options are limited by geography makes  
14 on-site fuel diversity even more important than for  
15 utilities with interconnection options all around them.

16  
17 The Polk Fuel Diversity Project mitigates the risk of  
18 service interruptions to customers due to a disruption or  
19 deficiency in natural gas supply or delivery. The Polk  
20 Fuel Diversity Project combines existing facilities,  
21 capabilities, and expertise at the Polk Power Station to  
22 expand the backup fuel oil capacity at Polk Power Station.  
23 This is a very effective and low-cost alternative for  
24 mitigating natural gas supply risk.

25

1 As I explained in my direct testimony, the company also  
2 considered several alternatives including purchases of  
3 capacity, storage, liquified natural gas ("LNG") storage,  
4 incremental firm gas transportation, solid fuel  
5 generation, purchased power, transmission, and renewable  
6 generation. The company determined that this project was  
7 the most feasible and logical option to add fuel  
8 diversity. In short, the company did not develop a  
9 quantitative cost-effectiveness analysis for the Polk  
10 Fuel Diversity Project because it is not needed. This  
11 project will be completed to mitigate fuel supply risk,  
12 which enhances reliability, and it is clearly the right  
13 option for Polk Power Station.

14  
15 **IV. TAMPA ELECTRIC'S SOUTH TAMPA RESILIENCE PROJECT IS**  
16 **NECESSARY, PRUDENT, AND WILL BENEFIT OUR CUSTOMERS**

17 **Q.** On page 50 of his testimony, Mr. Rábago asserts that Tampa  
18 Electric did not provide a cost-benefit analysis for the  
19 South Tampa Resilience Project. Do you agree with this  
20 assertion?

21  
22 **A.** No. Tampa Electric performed a comprehensive cost-benefit  
23 analysis which showed that the South Tampa Resilience  
24 Project has a projected net benefit to customers of  
25 approximately \$10 million CPVRR, excluding any benefit

1 from the value of reduced emissions. This net benefit  
2 includes projected fuel savings to customers of \$137.9  
3 million, and is shown in Document No. 5 in Exhibit No.  
4 JA-1, which is attached to the direct testimony of Jose  
5 Aponte. This project was also scrutinized by the company's  
6 capital leadership team and reviewed and approved by the  
7 Board of Directors.

8  
9 **Q.** Mr. Rábago also asserts that the project will have "new  
10 highly-pollution [sic] fossil fuel generation." Is this  
11 an accurate characterization of the project?

12  
13 **A.** No. As stated in my direct testimony the South Tampa  
14 Resilience Project is expected to produce \$137.9 million  
15 of cumulative projected fuel savings for customers. These  
16 engines are highly efficient, and, because of their  
17 efficiency, they operate using less fuel, which will also  
18 result in reduced CO<sub>2</sub> emissions on our system over their  
19 operating life.

20  
21 **Q.** How will these natural gas burning engines result in  
22 reduced CO<sub>2</sub> emissions?

23  
24 **A.** These reciprocating engines complement Tampa Electric's  
25 portfolio of four large, efficient natural gas combined

1 cycle units. Because the reciprocating engines can  
2 dispatch very quickly (and turn off quickly, ramp up and  
3 down rapidly, and be cycled on and off repeatedly), they  
4 will allow Tampa Electric to dispatch its generating  
5 assets more efficiently. Large combustion turbines ("CT")  
6 have a limited number of starts, must be started early to  
7 warm up, must be blended into the combined cycle, and  
8 then must run for several hours to meet minimum run times.  
9 By contrast, the company can dispatch the South Tampa  
10 reciprocating engines on and off to meet the load exactly  
11 when it is needed. Keeping the combined cycle steady while  
12 dispatching reciprocating engines to precisely match  
13 changing load demands uses less fuel and reduces emissions  
14 compared using large, combined cycle units to follow load.

15  
16 Additionally, the quick start nature of the reciprocating  
17 engines allows them to cover spinning reserves without  
18 even turning on. Without the reciprocating engines,  
19 spinning reserves may have to be covered by keeping extra  
20 MW spinning in combined cycle mode which causes extra  
21 fuel to be used without serving more load. This more  
22 efficient and effective use of the combined cycle units  
23 will likely extend the life of those assets.

24  
25 Q. Also on page 50, Mr. Rábago criticizes the project on the

1 grounds that it will not receive "direct funding support  
2 from the U.S. Department of Defense." Do you agree with  
3 this criticism?  
4

5 **A.** No. Although the government provided no "cash" funding  
6 support for the project, the lease agreement between the  
7 government and Tampa Electric allows "rent" to be paid in  
8 the form of in-kind consideration or "in-kind rent" which  
9 takes the form of Electrically Islanded Operations on  
10 MacDill Air Force Base ("MAFB") in the event of a very  
11 rare, declared emergency.  
12

13 **Q.** Why was this rent-free land beneficial for the project?  
14

15 **A.** Available land in South Tampa is very limited. Securing  
16 an available parcel that could both accommodate these  
17 reciprocating engines and be permitted for their use would  
18 have been difficult, if not impossible, in this load  
19 congested area. This arrangement is a great solution that  
20 addresses a capacity need for the company and solves a  
21 resilience need for MAFB.

22 **V. TAMPA ELECTRIC'S PLANS FOR POLK UNIT 1 AND BIG BEND UNIT 4**  
23 **ARE PRUDENT AND WILL PROVIDE BENEFITS TO OUR CUSTOMERS**

24 **Q.** In her direct testimony, Ms. Glick asserts that Polk Unit



1 1 cannot mitigate the impacts of natural gas price  
2 volatility because the Integrated Coal Gasification  
3 Combined Cycle ("IGCC") equipment is in reserve standby,  
4 because environmental regulations restrict potential IGCC  
5 operation, and because Polk Unit 1 has been unreliable.  
6 Do you agree with this analysis?

7  
8 **A.** No. Due to limited interconnects with other states, the  
9 amount of renewable power or replacement power that can  
10 be imported into the state is limited. Therefore, any  
11 renewable power or any replacement power must be generated  
12 within the state to meet reliability needs. Retaining the  
13 existing solid fuel assets of Polk Unit 1 is important to  
14 provide fuel diversity options and help mitigate the  
15 potential volatility of natural gas prices. With some  
16 necessary maintenance, Polk Unit 1 could return to IGCC  
17 operation within a year and help protect customers from  
18 high natural gas prices if the forward price curve shows  
19 petcoke prices will be lower than natural gas prices.  
20 Additionally, if Polk Unit 1 were to return to IGCC  
21 operation but retire before 2032, it would not be subject  
22 to any Greenhouse Gas ("GHG") emission standards. If Polk  
23 Unit 1 ceased operation after January 1, 2032, but before  
24 2039, co-firing a minimum of 40 percent natural gas would  
25 be required, or a Carbon Capture and Storage ("CCS")

1 system with a 90 percent CO<sub>2</sub> capture rate could be used.  
2 Finally, Polk Unit 1 has been a very reliable generating  
3 asset on our system, and it is expected to be even more  
4 reliable once converted to simple cycle operation in the  
5 Polk 1 Flexibility Project.

6  
7 **Q.** On page 33, Ms. Glick presents the net equivalent forced  
8 outage rate and argues that Polk Unit 1 has been  
9 “relatively unreliable.” Do you agree with her  
10 characterization of that information?

11  
12 **A.** No. As noted in Ms. Glick’s testimony, Polk Unit 1 had  
13 unusually high net equivalent forced outage rates  
14 (“NEFOR”) in the years 2020, 2021, and 2022; however, I  
15 do not view these anomaly years as an accurate predictor  
16 of future performance. There were two unexpected major  
17 forced outage events that caused significant down time  
18 during this period. However, several primary components  
19 of the combustion turbine and generator were refurbished  
20 to “like new” condition during the outage work. These  
21 refurbishments, along with the combustion system upgrades  
22 associated with the planned simple cycle conversion,  
23 incorporate robust, advanced combustion turbine  
24 technology and will position the unit for high reliability  
25 for its remaining useful life.

1 Q. On page 26 of her testimony, Ms. Glick also asserts that  
2 the Polk Unit 1 IGCC assets are no longer used and useful,  
3 and that the only reason that the company has not retired  
4 those assets is to keep them in rate base. Do you agree  
5 with this characterization of the company's decision-  
6 making?

7  
8 A. No. The IGCC assets on Polk Unit 1 are a unique, proven  
9 technology and have been in a designed layup configuration  
10 for the past several years. With certain evaluation,  
11 inspection, maintenance, and testing, the unit can be  
12 returned to service operating as an IGCC within a year.  
13 The primary equipment and systems within the IGCC have  
14 been maintained in a used and useful state and remain an  
15 integral component to mitigate risk related to volatile  
16 natural gas prices.

17  
18 Q. On page 27, Ms. Glick suggests that the Commission should  
19 order retirement of the Polk Unit 1 IGCC assets and create  
20 a regulatory asset to allow the company to recover some  
21 or all the undepreciated balance of the assets. Do you  
22 agree with this proposed treatment of the IGCC equipment?

23  
24 A. No. It is not appropriate to order the retirement of these  
25 assets since they are potentially useful and could benefit

1 customers in the future. However, I do agree that if the  
2 Commission orders the retirement of the IGCC equipment,  
3 then the remaining value of the assets should be  
4 transferred to a regulatory asset and recovered from  
5 customers. Of course recovery of the regulatory asset over  
6 a shorter period than the remaining life of the assets  
7 would increase customer bills. In addition, since a  
8 regulatory asset balance recovered over the remaining  
9 life of the assets would have the same impact on customer  
10 bills as keeping the assets in rate base for future use,  
11 I do not see the benefit in forcing retirement of the  
12 assets. In either scenario, customers would lose the fuel  
13 diversity benefits of retaining the IGCC components in  
14 service.

15  
16 **Q.** Ms. Glick asserts that Tampa Electric did not provide an  
17 analysis demonstrating that converting Polk Unit 1 to  
18 simple cycle operation is more economic than  
19 alternatives, including retirement. She also asserts that  
20 the converted unit will be only "marginally economic." Do  
21 you agree with her assessment?

22  
23 **A.** No. First, Tampa Electric did compare the economics of  
24 converting Polk Unit 1 to simple cycle operation to  
25 alternatives, including early retirement of the combined

1 cycle components of Polk Unit 1. Second, this analysis  
2 showed that the conversion to simple cycle operation  
3 resulted in the most cost savings for customers when  
4 compared to a reference case with Polk Unit 1 continuing  
5 to operate as a natural gas combined cycle unit.

6  
7 The company evaluated two additional options besides the  
8 conversion of Polk Unit 1 to simple cycle operation. In  
9 one of the options, the company analyzed retirement of  
10 the combined cycle components for Polk Unit 1 early in  
11 the year 2028. The second option evaluated an optionality  
12 case, in which Polk Unit 1 could operate in combined and  
13 simple cycle modes. Ultimately, the analysis showed that  
14 conversion of Polk Unit 1 to simple cycle mode is the  
15 most favorable option for customers, with an estimated  
16 CPVRR savings of \$166.9 million, compared to an estimated  
17 \$24.6 million savings for the early retirement option,  
18 and \$39.1 million savings for the optionality case.

19  
20 The Polk Unit 1 conversion is not only the most economic  
21 option for customers; it also provides additional  
22 dispatch flexibility to our system. Operating Polk Unit  
23 1 as a simple cycle combustion turbine will allow for  
24 faster starts, shorter up/down times, and lower  
25 turndowns, enabling Tampa Electric to better optimize

1 dispatch of the other assets in the generation portfolio.

2

3 **Q.** On pages 42 to 44 of her direct testimony, Ms. Glick  
4 asserts that Big Bend Unit 4 was uneconomic to operate in  
5 2019, 2020, and 2023. Is this statement accurate?

6

7 **A.** No. As Ms. Glick admits in her testimony on page 44, the  
8 approach of including long-term capital investments as a  
9 lump sum in a single year can give false uneconomic  
10 signals. Tampa Electric had large capital investments in  
11 the years 2019, 2020, and 2023 that resulted in false  
12 economic signals in Ms. Glick's Table 6.

13

14 **Q.** Why did Tampa Electric operate Big Bend Unit 4 using coal  
15 during the years referenced by Ms. Glick?

16

17 **A.** Big Bend Unit 4 burned coal for a variety of reasons over  
18 the last five years. From 2019 through 2021, the unit  
19 operated on coal when the capacity was needed. The coal-  
20 fired capacity was more than double the capability on  
21 natural gas and the additional capacity was needed to  
22 serve load and reserves. The unit also operated on coal  
23 for environmental reasons related to the Manatee  
24 Protection Plan or managing water levels at the plant.

25

1 Big Bend Unit 4 was also committed on coal during a  
2 Gulfstream Natural Gas System ("GNGS") pipeline outage  
3 for about two weeks in March 2021. This was a significant  
4 pipeline outage for Tampa Electric and the state of  
5 Florida, in which Big Bend Unit 4's dual fuel capability  
6 was critical to meet the demand of Tampa Electric  
7 customers.

8  
9 Other than the GNGS outage or environmental reasons, the  
10 unit was committed only when it was economic relative to  
11 the purchased power market or when constraints such as  
12 inbound transmission, availability of power supply, or  
13 system conditions prevented economic purchased power from  
14 displacing Big Bend Unit 4.

15  
16 During Winter Storm Uri in February 2021, Big Bend Unit  
17 4 was committed on coal at maximum capacity to reduce  
18 natural gas requirements. Tampa Electric experienced a  
19 significant loss of natural gas supply during the event,  
20 and Big Bend Unit 4's coal capability reduced system  
21 natural gas requirements. As natural gas prices spiked  
22 during the event, operating Big Bend Unit 4 on coal  
23 provided fuel savings for customers and mitigated natural  
24 gas pipeline penalties as pipeline alert days were posted  
25 every day. Penalties on pipeline alert days can be three

1 times the gas price when actual gas burns exceed scheduled  
2 burns.

3

4 In late 2021, the capability of Big Bend Unit 4 on natural  
5 gas was increased to a level like its coal-fired capacity.  
6 In 2022, with natural gas prices at their highest levels  
7 in years, Tampa Electric used coal in Big Bend Unit 4  
8 because it was more economic than natural gas. The  
9 estimated fuel savings for customers was over \$32 million  
10 in 2022, as demonstrated in Document No. 2 of my rebuttal  
11 exhibit CA-2 titled, "2022 Fuel Savings Associated with  
12 Using Coal". These savings are a direct result of Big  
13 Bend Unit 4 being dual fuel capable.

14

15 Although Ms. Glick claims on page 43 of her testimony  
16 that the market conditions in 2022 are rare and not  
17 expected to continue going forward, Tampa Electric  
18 prepares to be resilient and reliable in any number of  
19 unexpected scenarios. We have experienced extreme events  
20 (weather and other) recently and prepare for uncertain  
21 conditions going forward.

22

23 Q. Are there other examples showing the benefits of dual  
24 fuel capability at Big Bend Unit 4?

25



1 **A.** Yes. In December 2022, Big Bend Unit 4 operated on coal  
2 to reduce portfolio natural gas requirements during  
3 Winter Storm Elliott. In 2023, Big Bend Unit 4 coal burn  
4 was at an all-time low. During 2023, the unit operated on  
5 coal early in the year to support environmental  
6 constraints. In August 2023, Tampa Electric experienced  
7 extreme heat and set a new summer peak record almost five  
8 percent greater than its previous summer peak. Gas  
9 pipeline alert days were issued daily throughout the  
10 summer, and there was very little delivered gas available  
11 in the Florida market. Again, Big Bend Unit 4 operated on  
12 coal to reduce system natural gas needs and to mitigate  
13 natural gas pipeline penalties.

14  
15 In 2024, Big Bend Unit 4 has burned little coal year to  
16 date. The only coal burn took place on January 13, 2024,  
17 through January 16, 2024, as a winter storm drove natural  
18 gas prices to \$12/MMBtu at the Henry Hub. The estimated  
19 fuel savings for customers was approximately \$600,000  
20 during the event. Based on the extreme weather experienced  
21 during May 2024, we expect to commit Big Bend Unit 4 on  
22 coal this summer as needed to reduce system natural gas  
23 requirements and mitigate natural gas pipeline penalties.

24  
25 **Q.** On pages 45 and 46 of her direct testimony, Ms. Glick

1 projects that Big Bend Unit 4 will remain uneconomic to  
2 operate going forward. Do you agree with her analysis?

3

4 **A.** No. Tampa Electric expects to operate Big Bend Unit 4  
5 mostly on natural gas. However, it is important that we  
6 maintain the coal capability on Big Bend Unit 4 for fuel  
7 diversity, resilience, and to minimize fuel expense for  
8 our customers.

9

10 Dual fuel capability on Big Bend Unit 4 allows Tampa  
11 Electric to avoid buying additional firm gas  
12 transportation. The available gas transportation in  
13 Florida is limited and expensive. Given the limited  
14 availability of transportation, transportation is  
15 typically only available for the entire year, rather than  
16 seasonally, and for 10 to 15-year minimum terms. To serve  
17 a similar-sized 400 MW combined-cycle natural gas unit,  
18 the cost of incremental firm natural gas pipeline  
19 transportation would exceed \$25 million annually. If this  
20 avoided cost of pipeline transportation was added to Ms.  
21 Glick's Table 7, the projected net value of Big Bend Unit  
22 4 would be positive in all years.

23

24 The dual fuel capability of Big Bend Unit 4 allows Tampa  
25 Electric to put the unit on coal for short periods of

1 time during periods of extreme demand and avoid the  
2 significant fuel expense of buying additional long term  
3 firm gas pipeline transportation.

4  
5 **Q.** How does fuel switching capability at Big Bend Unit 4  
6 benefit customers?

7  
8 **A.** The fuel switching capability at Big Bend Unit 4 is  
9 important and can result in fuel savings for customers,  
10 help avoid pipeline penalties, reduce gas requirements  
11 during periods of extreme demand, and avoid the expense  
12 of long-term firm gas pipeline transportation. During  
13 extreme events or a pipeline disruption, onsite solid fuel  
14 for Big Bend Unit 4 could mitigate potential electric  
15 service interruptions for our customers. Big Bend Unit 4  
16 is the only dual fuel unit in the company's portfolio  
17 capable of quickly switching from one fuel to another and  
18 remaining on that onsite fuel during an extended fuel  
19 interruption such as a cyber-attack similar to the  
20 Colonial pipeline incident in 2021, a terrorist attack on  
21 energy infrastructure, an operational pipeline failure,  
22 extreme winter weather such as Winter Storms Uri or  
23 Elliott, a hurricane in the Gulf Coast damaging natural  
24 gas infrastructure, or the Piney Point reservoir incident  
25 near a Gulfstream pipeline compressor in 2021.

1 Q. On page 47 of her testimony, Ms. Glick claims that Tampa  
2 Electric did not evaluate whether continued operation of  
3 Big Bend Unit 4 is in the best interest of the company's  
4 customers. Is this statement correct?

5  
6 A. No. Tampa Electric evaluated continued operation of Big  
7 Bend Unit 4 and considers the continued operation of that  
8 unit to be in the best interest of the company's  
9 customers. Big Bend Unit 4 currently has dual fuel  
10 capability and can operate using natural gas or coal.  
11 Considering the recent volatility of natural gas prices,  
12 the scarcity of available firm natural gas pipeline  
13 transportation and amount of pipeline alert days in  
14 Florida, and supply constraints on the natural gas  
15 pipelines during periods of extreme demand, keeping Big  
16 Bend Unit 4 in operation to provide fuel diversity and  
17 system reliability is crucial for our customers.

18  
19 Q. Do you agree with Ms. Glick's assumptions on the costs  
20 for Big Bend Unit 4 to comply with EPA's Effluent  
21 Limitation Guidelines ("ELG") rule?

22  
23 A. No. Ms. Glick's environmental assessments are based on  
24 incorrect assumptions. Tampa Electric has already  
25 achieved compliance with the ELG rule through its deep

1 injection well ("DIW") system. The discharge of flue gas  
2 desulfurization ("FGD") wastewater to the DIW system is  
3 now permitted and regulated through the Florida  
4 Department of Environmental Protection's ("FDEP")  
5 Underground Injection Control ("UIC") Program. Tampa  
6 Electric has already incurred the cost to comply with the  
7 ELG rule as part of its design and construction of the  
8 DIW system.

9  
10 I do not know the exact source of the \$129 million  
11 compliance cost estimate included in the EPA report cited  
12 in Ms. Glick's testimony. It is possible that EPA made an  
13 erroneous assumption due to the fact that Big Bend's  
14 National Pollutant Discharge Elimination System ("NPDES")  
15 permit has been delayed. The EPA is not privy to  
16 additional information that has been provided to FDEP but  
17 has not yet reached EPA as a part of the formal review  
18 process. It appears that the EPA's projections assume that  
19 Tampa Electric will design and build a zero-discharge  
20 system for FGD wastewater (and Bottom Ash and Fly Ash  
21 Transport Water). For plants that have no alternative to  
22 surface water discharge and no basis for exemption, the  
23 zero-discharge system is the only compliance option.  
24 However, Big Bend does have an alternative to continued  
25 surface water discharge, through its DIW system. Since a

1 zero-discharge system is not required at Big Bend Unit 4,  
2 EPA's projected cost estimate is not applicable.

3

4 **Q.** Do you agree with Ms. Glick's assumptions about Big Bend  
5 Unit 4 compliance with EPA's Mercury and Air Toxics  
6 Standards ("MATS") regulations?

7

8 **A.** No. Big Bend Unit 4 is already compliant with the MATS  
9 regulations and will continue to be compliant in the  
10 future. No additional costs will be incurred to continue  
11 operating the unit under MATS.

12

13 **Q.** What is the basis for Ms. Glick's apparent  
14 misunderstanding?

15

16 **A.** The lowest achievable filterable particulate matter  
17 ("FPM") rate of 0.00953 lb/MMBtu referenced by the Sierra  
18 Club is incorrect. The Sierra Club referenced this rate  
19 based on the EPA MATS Technical Analysis, suggesting the  
20 Big Bend Unit 4 may not be able to comply with the new  
21 0.01 lb/MMBtu and may need controls to meet the compliance  
22 deadline by 2027. Tampa Electric was able to recalculate  
23 the lowest achievable filterable FPM rate of 0.00974  
24 lb/MMBtu using the same FPM hourly database data  
25 referenced by EPA, which is close to the FPM rate of

1 0.00953 lb/MMBtu referenced by Sierra Club. However, this  
2 is not the rate that would be used to determine  
3 compliance. The FPM rate must be recalculated using the  
4 30-boiler operating day data to make an appropriate  
5 compliance assessment with the new limit of 0.010 lb/MMBtu  
6 based on a 30-boiler operating day average. Tampa Electric  
7 recalculated the quarterly lowest achieved FPM rate using  
8 the actual 30-boiler operating day data. The average FPM  
9 rate on Big Bend Unit 4 was 0.0035 lb/MMBtu on a 30-boiler  
10 operating day average from January 1, 2023, through  
11 December 31, 2023. This FPM monitoring data shows that  
12 Big Bend Unit 4 will continue to demonstrate compliance  
13 with the new MATS Rule Revisions, including the FPM limit  
14 of 0.010 lb/MMBtu based on a 30-boiler operating day  
15 average.

16  
17 **Q.** On page 51 of her testimony, Ms. Glick suggests that the  
18 company could convert Big Bend Unit 4 to seasonal  
19 operation during winter peak months. Have you evaluated  
20 this alternative?

21  
22 **A.** No. The company needs Big Bend Unit 4 to be dual fuel  
23 operational during the entire year. Specifically, Tampa  
24 Electric customers benefit from Big Bend Unit 4's coal  
25 capability during extreme events (weather or other) in

1 the summer and winter months to reduce portfolio gas  
2 requirements and to avoid having to acquire long-term firm  
3 natural gas pipeline transportation. Outside of the  
4 summer and winter periods, Big Bend Unit 4's coal  
5 capability provides fuel resilience in the event of a gas  
6 pipeline interruption.

7  
8 **Q.** Ms. Glick also suggests the unit could be converted to  
9 operation solely on natural gas ahead of its retirement.  
10 Have you evaluated this alternative?

11  
12 **A.** No. As I previously stated, the dual fuel functionality  
13 of Big Bend Unit 4 provides needed fuel diversity and  
14 resilience that helps to mitigate risk associated with a  
15 natural gas supply interruption as well as mitigating the  
16 impacts of volatile natural gas prices. Without Big Bend  
17 Unit 4's dual fuel functionality, Tampa Electric would be  
18 required to purchase incremental long-term gas  
19 transportation, and it would be detrimental to fuel  
20 resilience as it would increase the impact of a natural  
21 gas supply disruption for customers.

22  
23 **Q.** On pages 52 through 57 of her testimony, Ms. Glick argues  
24 that the company should retire all its coal-fired  
25 generation because it exposes customers to volatile fuel



1 prices and high environmental compliance costs. Do you  
2 agree with this conclusion?

3

4 **A.** No. Tampa Electric does not rely on coal and petcoke as  
5 Ms. Glick suggests on page 54. Going forward, Tampa  
6 Electric projects coal as a percentage of generation mix  
7 to be less than one percent annually. Maintaining the  
8 dual fuel capability of Big Bend Unit 4 and Polk Unit 1  
9 will help our customers mitigate the risk of volatile  
10 natural gas prices as those dual fuel units provide an  
11 alternate fuel to natural gas during periods of price  
12 volatility. Specific examples of coal-fired generation  
13 mitigating natural gas price volatility are Winter Storm  
14 Uri, the high natural gas prices in 2022, and most  
15 recently, the four days of natural gas price spikes in  
16 January 2024, which I previously described.

17

18 **Q.** On page 57 of her testimony, Ms. Glick asserts that Tampa  
19 Electric should replace its coal-fired assets with solar  
20 generation, energy storage, energy efficiency, and demand  
21 response. Do you agree that these resources could provide  
22 a substitute for the company's coal-fired generation?

23

24 **A.** No. While transitioning to solar generation, energy  
25 storage, energy efficiency, and demand response

1 technologies reduce carbon emissions, there are certain  
2 challenges associated with these technologies. For  
3 example, solar generation is not available to meet  
4 customer's needs during early morning winter peaks. Solar  
5 generation requires significant amounts of land that  
6 simply may not be available in a compact, urban service  
7 territory like Tampa Electric's. Solar generation, energy  
8 storage, energy efficiency, and demand response  
9 technologies are important tools that Tampa Electric  
10 supports to complement our generation resources. However,  
11 these alternative energy resources outlined in Ms.  
12 Glick's testimony are not a viable option to replace Tampa  
13 Electric's coal units at this time.

14  
15 **Q.** On pages 58 through 63 of her testimony, Ms. Glick  
16 describes the Energy Infrastructure Reinvestment ("EIR")  
17 program and recommends that the company should set an  
18 early retirement date for Big Bend Unit 4 and apply for  
19 EIR funding. Have you evaluated this program and  
20 considered Ms. Glick's recommendation?

21  
22 **A.** Although Tampa Electric is aware of the EIR program, we  
23 have not evaluated its use as an early retirement  
24 mechanism for Big Bend Unit 4. As I previously stated,  
25 the continued operation of Big Bend Unit 4 as a dual fuel

1 unit is in the best interest of customers, and it provides  
2 added fuel resilience and helps mitigate volatile natural  
3 gas prices. Tampa Electric does not believe the EIR  
4 program is an economic alternative to accelerate the  
5 retirement of these assets, nor does the company believe  
6 they should be retired at this time.

7  
8 **VI. TAMPA ELECTRIC'S POSITIONS ON SIERRA CLUB'S OTHER ISSUES**

9 **Q.** Should Tampa Electric recover Operating and Maintenance  
10 ("O&M") costs associated with keeping integrated  
11 gasification, steam turbine, and/or heat recovery steam  
12 generator components at Polk Unit 1 in long-term standby,  
13 and what adjustments should be made?

14  
15 **A.** Yes. As I previously explained, the IGCC, steam turbine,  
16 and heat recovery steam generator components of Polk Unit  
17 1 should remain in service because they allow the unit to  
18 burn solid fuel. This provides fuel diversity and  
19 reliability benefits to the company's customers.  
20 Consequently, the company should be able to recover the  
21 O&M costs associated with those components, and no  
22 adjustments should be made.

23  
24 **Q.** Should Tampa Electric recover O&M costs associated with  
25 injecting wastewater into deep wells at Polk Unit 1 and

1 Big Bend Unit 4, and what adjustments should be made?

2

3 **A.** Yes. These wells are necessary to maintain compliance with  
4 applicable environmental regulations at those units.  
5 Again, maintaining the capability to operate Polk Unit 1  
6 and Big Bend Unit 4 on solid fuel provides fuel diversity  
7 and reliability benefits to Tampa Electric's customers.  
8 As a result, the company should be able to recover O&M  
9 costs associated with the wastewater injection wells, and  
10 no adjustments should be made.

11

12 **Q.** Should Tampa Electric recover any O&M costs associated  
13 with coal or petcoke combustion at Polk Unit 1 and/or Big  
14 Bend Unit 4, and what adjustments should be made?

15

16 **A.** Yes. Maintaining the ability to burn solid fuel in Polk  
17 Unit 1 and Big Bend Unit 4 provides fuel diversity and  
18 reliability benefits to the company's customers. As a  
19 result, the company should be able to recover O&M costs  
20 associated with coal or petcoke combustion at Big Bend  
21 Unit 4 and/or Polk Unit 1, and no adjustments should be  
22 made.

23

24 **Q.** Should Tampa Electric be required to conduct an  
25 alternative analysis for retiring Polk Unit 1 and/or Big

1 Bend Unit 4 before their current retirement dates?

2

3 **A.** No. Tampa Electric should not be required to conduct  
4 alternative analyses for retiring Polk Unit 1 or Big Bend  
5 Unit 4. As I stated earlier in my testimony, Tampa  
6 Electric performed an analysis of early retirement of the  
7 combined cycle components of Polk Unit 1 which  
8 demonstrated the conversion to simple cycle resulted in  
9 the greatest cost savings for customers. Tampa Electric  
10 did not evaluate retirement of Big Bend Unit 4 because,  
11 as previously stated, the dual fuel functionality of Big  
12 Bend Unit 4 provides needed fuel diversity and resiliency  
13 that helps to mitigate risk associated with a natural gas  
14 supply interruption or volatile natural gas prices.

15

16 **Q.** Should Tampa Electric be required to conduct an analysis  
17 for retiring Polk Unit 1 and/or Big Bend Unit 4 earlier  
18 to avoid environmental compliance costs associated with  
19 EPA coal rules finalized in April 2024?

20

21 **A.** No. As I previously explained, Tampa Electric has already  
22 evaluated whether these units will comply with these  
23 environmental regulations and determined that the company  
24 will not incur any incremental expense to comply with  
25 those regulations.

1 Q. Should Tampa Electric be required to evaluate procurement  
2 of additional solar and energy storage projects to  
3 facilitate the earlier retirements of Polk Unit 1 and Big  
4 Bend Unit 4.

5  
6 A. No. The company evaluated the level of cost-effective  
7 solar generation and energy storage it could implement in  
8 the near term and is seeking cost recovery for projects  
9 totaling approximately 490 MW of additional solar  
10 generation and 115 MW of energy storage capacity in this  
11 rate case. Furthermore, as I previously explained, these  
12 resources are not a viable option to replace Tampa  
13 Electric's coal units at this time.

14  
15 Q. Should Tampa Electric be required to apply for the U.S.  
16 Department of Energy's Energy Infrastructure Reinvestment  
17 Program for Polk Unit 1 and/or Big Bend Unit 4?

18  
19 A. No. Again, Tampa Electric's solid fuel units provide fuel  
20 diversity and reliability benefits that cannot be cost-  
21 effectively replaced by solar and energy storage at this  
22 time, and those units should not be retired.

23  
24 Q. Should Tampa Electric be required to cease all coal  
25 combustion at Polk Unit 1 by 2024 and Big Bend Unit 4 by

1 2025?

2

3 **A.** No. For all the reasons I have already discussed in my  
4 testimony, these units should remain in-service and  
5 retain the equipment necessary to combust solid fuel.

6

7 **VII. SUMMARY**

8 **Q.** Please summarize your rebuttal testimony.

9

10 **A.** My rebuttal testimony addressed statements made in the  
11 direct testimony of OPC's witness Kollen, LULAC's witness  
12 Rábago, and Sierra Club witness Glick. I explained why  
13 the Commission should reject witness Kollen's proposal to  
14 reduce the company's 2025 test year outage expense, and  
15 I recommended that if the Commission decided to adjust  
16 outage expense, then it should adopt the approach  
17 described in Mr. Chronister's rebuttal testimony.

18

19 I addressed the assertions of Mr. Rábago, filed on behalf  
20 of LULAC, that the Corporate Headquarters, Polk Fuel  
21 Diversity, and South Tampa Resilience Projects should be  
22 disallowed. I explained that his arguments are unfounded,  
23 that these projects are prudent, and that Mr. Rábago's  
24 recommendations should not be followed.

25

1 I responded to the direct testimony of Ms. Glick, filed  
2 on behalf of the Sierra Club, and Ms. Glick's  
3 recommendations regarding Big Bend Unit 4 and Polk Unit  
4 1. I explained that these units are useful, provide  
5 benefits to customers, and contrary to Ms. Glick's  
6 recommendations, should not be retired or replaced at this  
7 time. I also explained that the costs of operating and  
8 maintaining the units should continue to be recovered in  
9 base rates.

10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

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

**A.** Yes.



1 BY MR. MEANS:

2 Q Mr. Aldazabal, did you also prepare and cause  
3 to be filed with your direct testimony an exhibit marked  
4 CA-1, consisting of 10 documents?

5 A I did. I did.

6 Q And did you also prepare in cause to be filed  
7 with your rebuttal testimony an exhibit marked CA-2,  
8 consisting of two documents?

9 A Yes, that's correct.

10 MR. MEANS: Mr. Chairman, we would note for  
11 the record that Exhibits CA-1 and CA-2 have been  
12 identified on the Comprehensive Exhibit List as  
13 Exhibits 18 and 142.

14 CHAIRMAN LA ROSA: Okay.

15 BY MR. MEANS:

16 Q Mr. Aldazabal, did you prepare a summary of  
17 your direct and rebuttal testimony?

18 A I did.

19 Q Would you please provide that now?

20 A Sure.

21 Good afternoon, Commissioners. My direct  
22 testimony describes the company's energy supply  
23 department and the improvements in the fuel efficiency  
24 and reliability of our generation fleet since Tampa  
25 Electric's last base rate case. My testimony also

1 describes our plan to build on these successes,  
2 including the addition of approximately 490 megawatts of  
3 solar generation, and 115 megawatts of energy storage  
4 through the end of 2026.

5           The company also plans to install four  
6 reciprocating combustion engines at MacDill Air Force  
7 Base in South Tampa.

8           The company plans to complete three major  
9 outages and a critical unit conversion at Polk that will  
10 provide fuel savings, and add needed flexibility to meet  
11 system needs. In 2026 we plan to add fuel diversity to  
12 our system by adding liquid fuel capability at Polk  
13 station.

14           My testimony also addresses two major  
15 projects, the Bearss Operation Center and the new  
16 Midtown headquarters.

17           The Bearss Operation Center will be a modern  
18 category five rated operation center that will replace  
19 functions currently housed in the company's Energy  
20 Control Center and Ybor Data Center. The new operations  
21 center will be located at a safer, higher and more  
22 inland location, and will be designed to operate the  
23 company's system for the next 40 years. The new  
24 operations center will include an energy management  
25 system upgrade, including new map boards and dispatching

1 consoles.

2           The Midtown headquarters will replace Tampa  
3 Electric's existing headquarters in TECO Plaza, and  
4 provide modern facilities, dedicated parking, a greater  
5 storm resilience due to its inland location, and  
6 construction under modern building codes. The  
7 building's more efficient floor layout will accommodate  
8 more team members, reduce space needs in the future, and  
9 improve employee satisfaction. This new headquarters is  
10 nearly equivalent in cost to remaining in TECO Plaza and  
11 renovating the existing space, but with the added  
12 benefits I previously described.

13           My rebuttal testimony addresses three main  
14 topics.

15           First, I respond to OPC Witness Kollen's  
16 proposal to use historical average planned outage costs  
17 to normalize future planned outage costs.

18           Second, I explain why this commission should  
19 reject LULAC's Witness Rabago's recommendation for the  
20 corporate headquarters, Polk fuel diversity and South  
21 Tampa Resilience Projects.

22           Third, my rebuttal testimony explains why it  
23 is prudent for the company to retain dual fuel  
24 capabilities at Polk Unit 1 and Big Bend Unit 4 in  
25 response to arguments raised by Sierra Club. In short,

1 retaining dual fuel capability provides fuel diversity,  
2 reliability and fuel price mitigation for our customers.

3 Thank you. That concludes my summary.

4 MR. MEANS: Mr. Chairman, we tender the  
5 witness for cross-examination.

6 CHAIRMAN LA ROSA: Thank you.

7 OPC.

8 MR. REHWINKEL: Thank you, Mr. Chairman.

9 EXAMINATION

10 BY MR. REHWINKEL:

11 Q Good afternoon, Mr. Aldazabal.

12 A Good afternoon.

13 Q Good to see you again.

14 A Good seeing you.

15 Q I just want to talk to you about normalization  
16 of outage costs, if I can.

17 You would agree that Tampa Electric has three  
18 major outages planned for 2025?

19 A We do.

20 Q Wouldn't you agree that major outages occur on  
21 a regular four- to five-year cycle?

22 A Yes. That's typical.

23 Q And the total expected capital costs of the  
24 Bayside Unit 1 outage is expected to be 14-and-a-half  
25 million dollars?

1           A     The total expected O&M costs for all three  
2 outages is expected to be 14-and-a-half million dollars.

3           **Q     Okay. This outage is necessary because the**  
4 **run -- run time or run hours on the steam turbine are**  
5 **expected to be 380,000 hours in the test year?**

6           A     Yes. That's correct. And just to clarify, I  
7 was referring to the O&M costs on those outages.

8           **Q     Okay.**

9           A     Yes.

10          **Q     This 380,000-hour number is contrasted with**  
11 **the OEM, or original equipment manufacturer's**  
12 **recommendation that the run time between outages should**  
13 **be 250,000 hours?**

14          A     Yeah. For the base outage, yes, that's  
15 correct.

16          **Q     The company chose, for whatever reason, to**  
17 **exceed the OEM recommendations, correct?**

18          A     Well, we exceeded those OEM hours as a  
19 testament to our asset management program. When you  
20 have these large components, you do borescope  
21 inspections, and if you don't observe any issues through  
22 the asset management process, you can defer the outages  
23 beyond the OEM recommended time.

24          **Q     But it was the company's choice to do that,**  
25 **right?**

1           A     It was our choice for the benefit of  
2 customers, yes.

3           Q     All right. So the steam turbine for Bayside 1  
4 reached 250,000 operating hours in 2004?

5           A     Yes. That's correct.

6           Q     Okay. So for the last 20 years, you have been  
7 operating the steam turbine at this unit beyond the OEM  
8 recommendation?

9           A     That's correct.

10          Q     Polk Unit 2, what are the O&M costs associated  
11 with this outage?

12          A     The O&M costs with -- for the Polk outage are  
13 -- give me one second.

14          Q     Is it six million?

15          A     Yep, six million.

16          Q     Okay. And this outage is necessary because  
17 the OEM recommends an overhaul at 50,000 hours, is that  
18 right?

19          A     That is correct.

20          Q     And that threshold was reached in fourth  
21 quarter of 2021, right?

22          A     That is correct.

23          Q     And wouldn't this be the first time you open  
24 this turbine at this unit since installation in 2017?

25          A     That is correct.

1 Q By the time you implement this -- or perform  
2 this outage in 2025, you will have reached 66,000 hours  
3 estimated, right?

4 A That's the estimated time. Yes.

5 Q Was this maintenance related to this outage  
6 deferred?

7 A No.

8 Q So it was never planned at a prior time and  
9 then --

10 A Not for Polk, no.

11 Q Okay. Were any of the three outages that we  
12 are talking about here, was the -- were those projects  
13 deferred?

14 A No. The only outage that was deferred was the  
15 Bayside 2 outage, which had a similar steam turbine  
16 upgrade done. And that one was deferred because we had  
17 some issue with some parts. But those other outages  
18 have not been deferred.

19 Q Okay. Big Bend 4, your costs for this outage  
20 is three-and-a -- \$3.1 million?

21 A I believe it's two million.

22 Q Two million, okay.

23 A And to clarify, we call them three majors.  
24 Two of the outages are majors. They are 70-day outages,  
25 so they are long duration outage. The Big Bend 4 outage

1 is actually a 30-day outage. We are calling it a major,  
2 because typically, cleanup outages are two weeks in  
3 duration. When they exceed two weeks, we tend to refer  
4 to them as major outages. But the Big Bend 4 outage is  
5 a -- I would call it a minor major, if you will.

6 **Q Okay. But what you are doing at Big Bend 4,**  
7 **that's not something that you do every year at Big Bend**  
8 **4, right?**

9 A That's correct.

10 **Q In 2023, is it true -- isn't it true that you**  
11 **incurred \$46,738,000 of generation maintenance expense?**

12 A 40 -- what was the number you quoted?

13 **Q 46.738.**

14 A That's correct.

15 **Q Okay. And for the test year, you are**  
16 **forecasting to incur 68.539 million for generation**  
17 **maintenance?**

18 A That is correct. And this year, we are  
19 forecasting to incur 59 million in generation  
20 maintenance.

21 **Q What was the last thing you said?**

22 A This year, we are expecting 59 million in  
23 generation maintenance expense, 2024.

24 **Q So the test year generation maintenance**  
25 **expense is 28.8, or 46.6 percent greater than the last**



1 actual year of generation maintenance that you have  
2 experienced, right?

3 A Can you repeat your numbers?

4 Q Well, let me -- yes.

5 And just as a predicate, 2023 is the last full  
6 year of actual generation maintenance experience that  
7 the company has, right?

8 A Yes.

9 Q And the two numbers that we talked about, 68.5  
10 million and 46.7 million, the difference there is 21.8  
11 million, right?

12 A Yeah. That's correct.

13 Q And that 21.8 million is 46.6 percent greater  
14 than the 2023, that's 20 -- that's 46.6 percent of the  
15 amount you incurred in 2023, right?

16 A I trust your math. Yes.

17 Q Okay. So of the planned generation  
18 maintenance component of these expenses, didn't you  
19 incur 9.484 million in 2023?

20 A We did.

21 Q And your forecast for 2025 shows the same type  
22 of expense, 25.205 million, right?

23 A That is correct. But again, in 2024, we are  
24 expecting 13.3.

25 Q Okay. That's not an actual. That's a

1 forecast, or budget, which is --

2 A It's -- actual and forecast is combined.

3 Q Okay. So you would agree with me that test  
4 your expense for planned maintenance generation is 16.0  
5 million, or 68.9 percent greater than the amount  
6 incurred, the same type, in 2023?

7 A For planned maintenance, that's correct.

8 Q Okay. This difference, this 68.9 percent  
9 difference, isn't it true that it is due, in significant  
10 part, to the -- in significant part to the company  
11 reflecting in its filing that it is planning all of  
12 these outages in 2025?

13 A That certainly contributes to the difference,  
14 Mr. Rehwinkel. But again, I would argue that by  
15 shifting outages and not having the outages during the  
16 OEM, customers benefited over a longer duration by  
17 pushing those outages out and getting that unit to run  
18 much longer than anticipated.

19 Q But we are here today to talk about the  
20 correct level of revenue requirements on a going forward  
21 basis from 2025 forward, right?

22 A Yes.

23 Q Isn't it true that nowhere in your testimony,  
24 or any of the other materials that the company submitted  
25 in this case, shows that this level of planned

1 maintenance generation expense will be recurring at this  
2 level?

3 A We don't have any other years where it's 25.2  
4 or higher, that's correct --

5 Q Okay.

6 A -- for planned maintenance.

7 Q If you assume that the planned generation  
8 maintenance expense reverts to the lower level of  
9 expense in 2023, in subsequent years, won't the company,  
10 nevertheless, continue to recover this abnormally high  
11 level of expense in subsequent years until base rates  
12 are reset in a future case, if the Commission allows  
13 your level of expense that you are requesting?

14 A No, I don't think that's a fair assumption.  
15 You know, we do forecast what our planned outages are  
16 going to be in outer years. We have already forecasted  
17 2026 and 2027, and we are anticipating expenses to come  
18 down from 25.2, but they are still going to be  
19 significantly higher than 2023 numbers.

20 Q But you agree with me that there is -- the  
21 test year level is higher than your -- even that you are  
22 forecasting for subsequent years, right?

23 A It is.

24 Q If the company collects costs for these  
25 maintenance projects as projected in 2025, but they are

1 not incurred in future years, won't that mean that  
2 customers' bills are higher than they should be, all  
3 other things being equal, and, thus, even less  
4 affordable?

5 A That's a big assumption on all other things  
6 being equal. On this particular component, if we were  
7 to just cherrypick planned outages, yes, the O&M costs  
8 are higher, but there is numerous other outage, or other  
9 maintenance type expenses that we incur from an O&M  
10 perspective that are going the other direction.

11 Q It's interesting, you use the word cherrypick.  
12 Isn't using the peak amount of expense that you have put  
13 in the test year, isn't that kind of cherrypicking that  
14 number?

15 A Yeah. Again, we pushed the outage out to  
16 2025. It wasn't, as Witness Kollen says, trying to  
17 bunch all the outages out in 2025. It just so happens  
18 we can only have major outages during a certain period  
19 of time, during the shoulder months. So you have three  
20 months in the spring, three months in the -- in the fall  
21 we can have these outages. It just so happened we were  
22 having two majors in the spring and the fall of 2025.

23 Q Okay. Regardless of your motivation, you  
24 would agree the Commission should normalize this cost, I  
25 guess the debate is just about how to go about

1 **normalizing that; is that right?**

2 A I think it's -- so Witness Kollen refers to  
3 normalization, and he provides various examples of how  
4 he would normalize the outages. You know, I have always  
5 believed in the outages, since they occur in four- to  
6 five-year periods, makes sense to take the outage costs  
7 and amortize those costs over a four- or five-year  
8 period.

9 Witness Chronister suggests normalizing those  
10 costs -- and I say normalizing, really tying them up on  
11 the balance sheet, and deferring that expense over a  
12 three-year period, is what Witness Chronister proposes  
13 in his testimony, the amount above the baseline, once  
14 the baseline is determined.

15 **Q Okay. Was the answer to my question yes?**

16 A Yes on the deferral. I don't know on the  
17 normalization.

18 **Q Okay. I think you have been doing the yes and  
19 explain, but just to make sure.**

20 **Now, you assert that Mr. Kollen's proposal  
21 disallows expenses, is that right?**

22 A His base proposal, yes.

23 **Q But he has not asked -- he is not saying you  
24 don't get to recover them. The question -- only  
25 question is, in the ratemaking formula, how do you**

1 **recover those expenses, right?**

2 A Maybe I misunderstood his testimony, but I  
3 thought he was taking a baseline over a seven-year  
4 period in saying that anything above the baseline would  
5 be disallowed from a revenue requirement perspective.

6 Q Okay. So for purposes of -- well, he is not  
7 -- even under that scenario, Mr. Kollen isn't  
8 recommending that your costs be disallowed in entirety,  
9 right, even if you take it the way you look at it? He  
10 is saying you get recovery for these maintenance costs  
11 in the large part, right, even under your theory?

12 A I would hope that's what he was intending to  
13 say in his testimony.

14 Q Okay. What is your understanding of the  
15 period that Mr. Kollen recommends amortization, or  
16 normalization?

17 A He suggested a period of 2019 through 2025,  
18 seven-year period.

19 Q Okay. You are a CPA, right?

20 A I am.

21 Q And you have some significant experience in  
22 regulatory affairs, right?

23 A I do.

24 Q You understand the Commission doesn't set  
25 rates for a single year with the expectation the company

1 will be right back in the next year, do you?

2 A I understand that. Yes.

3 Q And you would agree, the test year is supposed  
4 to reflect conditions that are expected to be in effect  
5 for the period that rates are expected to be in place,  
6 right?

7 A Yes, I do.

8 Q If the company is allowed to recover the  
9 unusually high major planned outage expense without  
10 normalization, then it -- then won't it recover the  
11 unusually high major planned outage expense at excessive  
12 levels each year thereafter?

13 A If the amount above a baseline is not deferred  
14 and amortized, yes, I would agree. And I believe  
15 Witness Chronister supports amortization of the amount  
16 above the baseline over a three-year period.

17 Q Okay. Mr. Aldazabal, thank you for your  
18 answers. Thank you for your time.

19 MR. REHWINKEL: Those are all the questions.

20 CHAIRMAN LA ROSA: Thank you.

21 Let's now move to Florida Rising/LULAC.

22 MS. LOCHAN: Thank you so much, Chairman.

23 EXAMINATION

24 BY MS. LOCHAN:

25 Q Good afternoon. My name is Hema Lochan for

1 Florida Rising and LULAC.

2 First and foremost, important business, I want  
3 to make sure I get your last name correctly. It's  
4 Aldazabal?

5 A That's correct.

6 Q Amazing. I believe we met virtually --

7 A Yes.

8 Q -- so it's nice to see you in person.

9 A Good to see you.

10 Q I first want to ask you a few questions on the  
11 new Midtown headquarters that you mentioned in your  
12 summary. So TECO is currently building the new  
13 headquarters?

14 A Yes. That's correct.

15 Q And in this consideration, TECO also  
16 considered renewing the lease it currently has?

17 A We did.

18 Q And in your direct testimony you state that  
19 one of TECO's main concerns was flooding?

20 A That was one -- that was one of the concerns.

21 Q Would you say it was one of the main concerns?

22 A It was a primary concern.

23 CHAIRMAN LA ROSA: It sounds like we may be  
24 losing your microphone a little bit.

25 THE WITNESS: It's on.



1           CHAIRMAN LA ROSA: Mine is too. It may be a  
2 little low.

3           MS. LOCHAN: It's a little low.

4           CHAIRMAN LA ROSA: Yeah.

5           MS. LOCHAN: Is this better?

6           CHAIRMAN LA ROSA: Yours is good.

7           THE WITNESS: Test. Test.

8           CHAIRMAN LA ROSA: I think his is not. Yeah.

9 Can you try hitting --

10          THE WITNESS: Test.

11          CHAIRMAN LA ROSA: That sounds -- that's off

12 also? Yeah, I think mine is low also. Can you

13 guys hear me okay? Okay.

14          Yeah, let's take a -- I know Brian ran to the

15 back. Let's take a three-minute break and let the

16 audio folks do their thing.

17          (Brief recess.)

18          CHAIRMAN LA ROSA: All right. Sorry for that

19 small technical difficulty, but let's go ahead and

20 take our seats and we will jump back in where we

21 left off.

22 BY MS. LOCHAN:

23          **Q All right. Thank you so much.**

24                   **Just to test the mic?**

25          **A Test. Test.**

1           **Q     How are you doing?**

2           MS. LOCHAN: Is the mic working?

3           THE WITNESS: It sounds like it is.

4           CHAIRMAN LA ROSA: Yeah. It sounds good.

5           MS. LOCHAN: Okay.

6   BY MS. LOCHAN:

7           **Q     We were discussing TECO's considerations for**  
8           **the new headquarters, and we were just discussing**  
9           **flooding. I believe the question was: Was flooding one**  
10          **of the main considerations for TECO's new headquarters?**

11          A     I wouldn't characterize it as the main  
12          consideration. It was a primary consideration. Lack of  
13          space is probably the main consideration.

14          **Q     Thank you.**

15                 **I am actually going to pull up an exhibit**  
16          **attached to your direct testimony. It is master number,**  
17          **if that's helpful, C3-230.**

18                 **Is it my understanding that this was the**  
19          **scorecard used for the new headquarters?**

20          A     This was a scorecard that was used as part of  
21          an evaluation for the new corporate headquarters.  
22          That's correct.

23          **Q     And is it also my understanding that**  
24          **multipliers were used in the scoring?**

25          A     Yes, multipliers were used.

1           **Q     And the highest multiplier was a 10, and the**  
2 **lowest multiplier was a one?**

3           A     Yes, but again, the multiplier was simply a  
4 function to try to create some differentiation between  
5 the different categories.

6           **Q     And was there a reason for the ranking of the**  
7 **multipliers?**

8           A     So this scorecard was provided to 18 senior  
9 level -- senior level directors within the organization  
10 to make a determination back in 2020, 2021 timeframe of  
11 what they felt were the top criteria for the new  
12 corporate headquarters, and this is how these 18 senior  
13 directors ranked these criteria.

14          **Q     So the criteria was ranked at that time in**  
15 **terms of priority?**

16          A     Yes.

17          **Q     Thank you.**

18          A     For those 18 directors.

19          **Q     Thank you.**

20                   **In the first category, what -- for a**  
21 **connection to community, do you know what considerations**  
22 **went into that category?**

23          A     Essentially being part of the community,  
24 lobby, space for community partnership.

25          **Q     Did this category include whether it would**

1 improve grid resilience for the community?

2 A That was not a consideration for that  
3 category. No.

4 Q Did it -- was a consideration whether it  
5 reduced customer costs?

6 A No.

7 Q Thank you.

8 And on this scorecard for security and  
9 resiliency, that is the category that included flooding?

10 A Amongst many things, correct.

11 Q Thank you.

12 I will now pull up -- this is FLL-184, which  
13 is master number F3.3-5971.

14 This is the -- this lays out the total capital  
15 costs between the Plaza lease, the Plaza purchase and  
16 the Midtown purchase, correct?

17 A It does.

18 Q And the difference between the total capital  
19 between the Plaza lease and the Midtown purchase is  
20 about 100 million, correct?

21 A On the cap -- keep in mind, this is the total  
22 cost of the building. This building is being shared  
23 between Tampa Electric and Peoples Gas. So six floors  
24 would pertain to Tampa Electric, three floors would  
25 pertain to Peoples Gas, and there would be two shared

1 floors. The component associated with only Tampa  
2 Electric, which is in the MFRs, is 188 million.

3 Q But on -- listed here, the difference is about  
4 100 million, correct?

5 A That's the total building cost. The  
6 difference between just the capital component on the top  
7 line would be about 100 million. That's correct.

8 Q Thank you.

9 And just drawing your attention to the  
10 financial impact to customers, for the six-year NPV of  
11 revenue requirement for the Midtown purchase is 345.6  
12 million, correct?

13 A Again, that's on the total building cost. On  
14 the Tampa Electric component, it would be 255 million.

15 Q All right. Thank you.

16 I would also like to pull up master number  
17 F1-153.

18 And here is the NPV of revenue requirements,  
19 correct?

20 A It is.

21 Q And the bottom of the page is the -- is what I  
22 am going to direct you to. This is -- these are the  
23 final numbers for the three considerations, correct, for  
24 the revenue requirement?

25 A I am sorry, you trailed off there at the end.

1           Q     Sorry. The bottom of the page is the revenue  
2 requirement, correct?

3           A     No, it's not.

4           Q     The totals at the bottom, not the total  
5 bottom, but all the way after 2084, after 60 years.

6           A     Give me one second. So that's accumulation of  
7 the revenue requirements by year over a 60-year period  
8 comparing the three different options.

9           Q     Thank you.

10                   And looking at this page, when we were  
11 thinking about the lease, is it possible that lease  
12 prices could go down within these six years, especially  
13 with, say, the continuation of remote work?

14           A     There is a potential they could go down, or  
15 they could go up. We do have a fixed lease in agreement  
16 right now with the company that we were leasing the  
17 property from, the existing TECO Plaza.

18           Q     All right. Thank you.

19                   Could you pull up -- this is FLL-192, but  
20 master number F3.3-6376. And this shows here that the  
21 corporate headquarters is at 4.3 million O&M costs for  
22 2025?

23           A     You said O&M cost?

24           Q     I did.

25           A     I have a different number.

1 Q Do you recognize this chart?

2 A I do not.

3 Q All right. Thank you.

4 If we can pull up FLL-183, which is master  
5 number F3.3-5968. I think this will also -- this is  
6 going to send us to an Excel. So I think we click the  
7 hyperlink.

8 Okay. So this shows the residential bill  
9 impact of the project Tampa headquarter -- Midtown  
10 headquarters, correct?

11 A Can you point me to the right line, the line  
12 you are looking at?

13 Q This Excel as a whole shows the residential  
14 bill per 1,000 kilowatt hour.

15 A I see a 135.63 on 1,000 kWh total there for  
16 2025. That seems low.

17 Q If you look at the -- if you scroll down to, I  
18 believe it is line 66, which is -- it says, the  
19 residential rate increase, and starting in 2025, it goes  
20 to one -- \$1.31?

21 A Yeah, I see that. I am sorry, I am not trying  
22 to be difficult. I am just not familiar with this  
23 document, and I don't know how this pertains to the  
24 corporate headquarters.

25 Q I believe this is -- the title of this

1 document refers to the project Tampa Midtown, but we can  
2 come back to it later. We can -- if -- well, we can  
3 move on to the next topic.

4 So -- give us one second. I am going back to  
5 the Excel sheet, which is FLL-183. Can you confirm that  
6 this looks like a document produced by the company, and  
7 does the Bates stamp number give you a clue?

8 A The document looks familiar. I just don't  
9 remember the document.

10 Q But you are the witness responsible for the  
11 Midtown project?

12 A I am, and I have a revenue requirement for the  
13 Midtown project, which I don't see up there, for 2025.

14 Q However, does this document purport to  
15 calculate the residential rate impact of the Midtown  
16 project?

17 A It does appear to calculate a residential rate  
18 increase there at the bottom of 2025 for the Midtown  
19 project of a -- I believe it's \$1.31. But I can tell  
20 you that we did do a net present value analysis over the  
21 life of staying in the Plaza or build -- moving into the  
22 new Midtown headquarters, and as is on the bottom of my  
23 exhibit, document number nine, the difference between  
24 staying in the TECO Plaza or moving to the Midtown  
25 headquarters over a net present value over a 30-year



1 period was less than \$1 million, not taking into account  
2 all the qualitative benefits of moving to a much higher  
3 ground, moving out of a flood prone area. So there is  
4 some significant benefits to the Midtown location.

5 Q However, as of now, we have no reason to  
6 question the numbers on this document?

7 A Subject to check.

8 Q Yeah. And -- so in this document, it says, in  
9 2025, it is 1.31, correct?

10 A I'm sorry?

11 Q And in this document, it shows that the  
12 cumulative residential rate increase in 2025 would be  
13 \$1.31?

14 A It does reflect the \$1.31 increase there, but  
15 again, it doesn't show the impact of staying at the TECO  
16 Plaza lease.

17 Q Thank you.

18 Now, I am going to turn your attention to red  
19 folders that have magically been placed, I think, next  
20 to you, and I think everyone should have these red  
21 folders. This -- these are the smaller red folders.

22 A Oh, those. I am sorry.

23 MR. MEANS: Just to clarify, is this FLL-303C  
24 and FLL-316C?

25 CHAIRMAN LA ROSA: Yeah. Two stacks.

1 MS. LOCHAN: Yeah. This is going to be  
2 FLL-303C.

3 MR. MEANS: Okay. Thank you. I just want to  
4 make sure I have the right folders.

5 BY MS. LOCHAN:

6 Q If you could take a second to review what is  
7 in the folder. I am going to ask you to read parts of  
8 what's in the folder, not out loud, and then I will ask  
9 you whether or not what you are reading is confidential.  
10 And if it is, I will not ask you the question; but if it  
11 is -- if you are able to talk about it, or answer the  
12 question, you will let us know.

13 CHAIRMAN LA ROSA: Could you just direct the  
14 witness to the -- to which folder when you --

15 MS. LOCHAN: It is 303C.

16 BY MS. LOCHAN:

17 Q Okay. So this exhibit is the -- for the South  
18 Tampa Resilience Project, TECO is planning on leasing  
19 the land for the project?

20 A No, that's not correct.

21 Q It's your testimony that there is no lease  
22 with the Air Force for the South Tampa Resiliency  
23 Project?

24 A To be clear, we are not paying for a lease.  
25 They are providing the land free of cost over a 33-year

1 lease, period. So we are not paying for the lease.

2 Q Okay. Thank you.

3 This -- in this exhibit, this is your  
4 signature, correct, on Bates number 45162?

5 A Yes.

6 Q And you would say that this document speaks  
7 for itself?

8 A It's been a while since I read this document,  
9 but, yes, I signed it.

10 Q All right. Thank you.

11 If you can turn to Bates number 45158.

12 A Okay.

13 Q And if you can go all the way to the bottom,  
14 under Roman Numeral V. Sorry -- oh, I am sorry. If  
15 you, on 45158, under the exhibit title, can you read the  
16 line to yourself under it of the title of the document?

17 A Okay. Yes.

18 Q Is that confidential, the title?

19 A It is not.

20 Q Okay. What does it say?

21 A Electrically Islanded Operations Agreement.

22 Q Thank you.

23 Now could you turn to 45160?

24 A Okay. I am there.

25 Q And all the way at the bottom, Roman Numeral

1 **V, is that section confidential?**

2 A It is not.

3 **Q Could you read what it says?**

4 A Sure.

5 Upon notice from MacDill Air Force Base to  
6 Tampa Electric of inability or failure to achieve EIO  
7 capabilities which failure T -- Tampa Electric is not  
8 able to cure within 180 days of such notice, Tampa  
9 Electric shall pay ground rent as provided in section  
10 2.2 of the EAL until TECO -- until TEC establishes and  
11 demonstrates effective EIO capabilities as determined by  
12 MacDill Air Force Base.

13 **Q Thank you.**

14 **And now the previous page, 45159.**

15 A Okay.

16 **Q Can you read to yourself the first sentence of**  
17 **B?**

18 A Okay.

19 **Q Is that confidential?**

20 A It is not.

21 **Q Could you read that out loud?**

22 A In the event MacDill Air Force Base identifies  
23 a potential validated threat to actual or planned  
24 MacDill Air Force base missions, or an actual grid  
25 outage, the MacDill Air Force Base primary or secondary

1 point of contact shall contact the Tampa Electric  
2 primary or secondary point of contact to request EIO.

3 **Q And EIO refers to electrically island and**  
4 **operations?**

5 A That is correct. Again, and during a  
6 validated threat. A validated threat is a very rare  
7 type situation. The last time the base experienced a  
8 validated threat was 9/11. So these are very rare  
9 circumstances where we would have to electrically island  
10 the base.

11 **Q All right. Thank you. That's it for this**  
12 **document.**

13 **For now, we are going to talk about the Bearss**  
14 **Operations Center, or -- it is pronounced Bearss,**  
15 **correct?**

16 A I was born and raised in Tampa. I have always  
17 called it Bearss, but I have heard people call it  
18 Bearss. I don't know.

19 **Q Great. Okay. We will go with Bearss then.**

20 **So if we can pull up FLL-149, which is master**  
21 **number F3.36385. So this is the Bearss revenue**  
22 **requirement?**

23 A Okay.

24 **Q And you were responsible for contributing the**  
25 **cost to this document?**

1           A     I provide the cost to Jordan Williams to  
2 calculate his allocation methodology on here, yes.

3           Q     Okay. Thank you so much.

4                     And if you scroll to the second page of this  
5 document, the total at the bottom is about 24 million?

6           A     Yes. That's correct.

7           Q     Thank you.

8                     And if you scroll back to the first page.  
9 Thank you so much for the scrolling. This shows that if  
10 you look at line six under a 4CP allocation, residential  
11 customers are responsible for five -- 59.84 percent of  
12 the revenue requirement?

13          A     That is correct.

14          Q     Thank you.

15                     I will now turn your attention to the second  
16 red folder, 316. And this is confidential, but can you  
17 confirm, or read the title of this presentation?

18          A     Sure. It says: Bearss Operations Center, CLT  
19 follow-up presentation.

20          Q     If you can, flip to Bates 15411.

21          A     I am there.

22          Q     If you could look all the way to the bottom,  
23 the bottom section, is that confidential information?

24          A     It is not.

25          Q     Could you read what the title of the bottom

1 is?

2 A Sure. It says: Customer Bill Impact,  
3 Residential Bill Impact Estimate.

4 Q And could you confirm that the numbers are  
5 going up from 2025 to 2029 -- I'm sorry, 2025 to 2027?

6 A They are increasing. Yes.

7 Q Thank you.

8 Okay. Just a few more topics, and no more  
9 confidential information, so.

10 If you can pull up FLL-158 which is master  
11 number F3.3-4066. And can you confirm whether these are  
12 the actual costs that have been spent at Polk and Big  
13 Bend?

14 A Yes. These look like capital costs for Polk  
15 Unit 1.

16 Q Thank you.

17 And I am going to jump to another document,  
18 which is FLL-161, or master number F3.34090. And can  
19 you confirm whether these are the future costs at Polk  
20 and Big Bend?

21 A Yes. This reflects capital costs projected  
22 for Big Bend 4 and Polk Unit 1.

23 Q Okay. Thank you.

24 A few more documents. If we can jump to  
25 FLL-309, which is master number F3.625880. And if we

1 can scroll down to 2025, which would be the fourth page  
2 of that document.

3 A Okay. I am there.

4 Q And would you agree that Big Bend is the  
5 highest cost per capacity for this year, Big Bend 4?

6 A I guess I am trying to understand what this  
7 document is trying to say. I don't know where these  
8 numbers came from.

9 CHAIRMAN LA ROSA: Can we get an explanation  
10 of the document?

11 MS. LOCHAN: Yes. One second.

12 BY MS. LOCHAN:

13 Q I believe there is a demonstrative Excel that  
14 goes with this document, which are the work papers. Do  
15 you recognize this Excel as the work papers for MFR  
16 C-33?

17 A Yes. That looks like MFR C-33.

18 Q And if we can go to the tab which is cost per  
19 installed capacity, which is where the numbers are  
20 pulled from. Uh-huh. Yeah, there is a lot of tabs.  
21 And I think that is where this -- these numbers were  
22 pulled from. Do you recognize this document?

23 A I don't recognize the document, but I  
24 understand the document.

25 Q And going back to the document, would you



1 agree that the costs listed -- cost per capacity listed  
2 for Big Bend 4 in 2025 is one of the highest on the  
3 list?

4 A Yes, I would agree it's one of the highest on  
5 the list; but what that document is reflecting is the  
6 total cost of that asset over its life.

7 Q And Polk 1 is also high on that list?

8 A Yes, it is.

9 Q As is MacDill Air Force?

10 A I don't see MacDill Air Force Base on here.

11 Q It is -- if you are looking at it, it's right  
12 under Polk 1 and 2, or 196, line 196.

13 A On a cost per capacity, it's higher than some  
14 of the others, correct.

15 Q Okay. Thank you.

16 And last few questions here. Pulling up  
17 FLL-247, which is master number F3.3.4-19916. Yes,  
18 FLL-247. And if we can -- perfect. And just on --  
19 yeah, if you can zoom in a little bit. Under the first  
20 -- this is -- actually, if we can scroll up a few pages  
21 to -- just one more. Yes.

22 This is a presentation on the MacDill Air  
23 Force, correct?

24 A The CLT presentation, yes.

25 Q Thank you.

1           Okay. Now, just scroll back to that chart we  
2 were looking at. Under column 1, row 2, could you read  
3 what that consideration was?

4           A     Sure.

5           Global warming increases floodplain elevation  
6 or increases severity of hurricane storm surge.

7           Q     Thank you.

8           Would you say that that is a consideration for  
9 the company?

10          A     It absolutely is a consideration where we site  
11 our units, yes.

12          Q     Okay. Thank you so much.

13                 I am just going to check really quickly to see  
14 if I have any other questions. All right. Thank you so  
15 much, Mr. Aldazabal. Those are all my questions.

16          A     Thank you.

17                 CHAIRMAN LA ROSA: Great. Thank you.

18                 Let's now move to FIPUG.

19                 MR. MOYLE: Thank you, Mr. Chair.

20                                 EXAMINATION

21          BY MR. MOYLE:

22                 Q     Good afternoon.

23                 A     Good afternoon.

24                 Q     I want to ask you a little more about a topic  
25 you brought up, it's in your testimony also, with

1     **respect to your major repairs, and you said you got to**  
2     **do those at a certain time period, is that right?**

3           A     That's correct.

4           Q     **And they are called shoulder months, is that**  
5     **right?**

6           A     Yes, sir.

7           Q     **Could you just tell us what a shoulder month**  
8     **is, and why you schedule your major outages on shoulder**  
9     **months, please?**

10          A     Sure.

11                   Shoulder months are -- typically they are  
12     their lower load months, February, March and April,  
13     early part of the year, and then September, October,  
14     November, in the latter part of the year, where you have  
15     typically much lower peak loads.

16          Q     **And that's obviously what -- based on the**  
17     **weather. The weather is more temperate during those**  
18     **months, so you are not having, you know, high heating**  
19     **days or cold, cold cooling days, correct?**

20          A     That's correct.

21          Q     **So I want to refer you to your testimony on**  
22     **page 27 -- I am sorry, 25, line 17.**

23          A     My direct testimony?

24          Q     **That's right.**

25          A     Okay, I am there.

1           Q     And I will just -- the question was: Are  
2     technical improvements, fuel prices and public policy  
3     considerations continuing to drive changes in how the  
4     company generates electricity? And you said, yes, and  
5     talk about technological improvements and tax incentives  
6     have made solar a cost-effective alternative to natural  
7     gasifier generation, is that right?

8           A     Yes. That's correct.

9           Q     I just want to ask some -- a little more depth  
10    on what you are referencing with respect to some of  
11    these topics.

12                    So when you say technological improvements,  
13    could you explain what that references, as to how that's  
14    making solar more cost-effective compared to a natural  
15    gas-fired unit?

16           A     Sure. The cost of PV panels have come down  
17    significantly over the years, so we are seeing some  
18    technology improvements in the efficiency and capability  
19    of PV, which makes solar competitive when you factor in  
20    the production tax credit.

21           Q     And when you are tracking those improvements,  
22    you know, if you were going to graft it out, I mean, my  
23    understanding is when solar first started, it was very,  
24    very expensive, and then there was a pretty dramatic  
25    price decrease, but as we go along now, the price

1 **decrease is less significant; is that largely correct?**

2 A Yes. Witness Stryker can probably get into  
3 the details on the cost of solar, but, yes, generally  
4 that is correct.

5 Q Okay. And with respect to fuel prices, what  
6 are you referencing there that makes solar more  
7 attractive, I guess?

8 A Well, fuel prices from solar obviously is a  
9 zero cost resource from a fuel perspective. When you  
10 have spikes in natural gases -- natural gas, like we had  
11 in 2023, solar becomes significantly much more  
12 beneficial.

13 Q Right. But when you are looking at it, don't  
14 you -- I mean, you look at projections, and the 2023  
15 natural gas price was extremely high, and today it's  
16 not, correct?

17 A It's certainly lower, which makes sometimes  
18 solar a little bit more challenging from a  
19 cost-effective perspective, but it is still  
20 cost-effective.

21 Q And is it also -- you know, what makes it  
22 cost-effective in significant part are the tax  
23 credits --

24 A Yes. Absolutely.

25 Q -- that are provided?

1           A     Yes.

2           Q     And are those both production tax credits and  
3     incentive?  There is another tax credit that goes with  
4     the solar.  You are a CPA, you probably know it off the  
5     top of your head, but --

6           A     So we are using the production tax credit now.

7           Q     Production tax credit?

8           A     It's much more beneficial than the investment  
9     tax credit.

10          Q     Investment.  And you can't stack them?

11          A     No.

12          Q     So do you know, at a big picture level, if you  
13     were comparing natural gas on a production cost per  
14     megawatt compared to solar which one is the better deal?

15          A     Can you repeat the first part of the question?  
16     I am sorry.

17          Q     Yeah.  It's comparison between putting in a,  
18     say, a combined-cycle unit natural gas as compared to  
19     putting in an equivalent amount of solar, what would,  
20     you know, based on your role as VP of Operations, what  
21     would be the better economic deal for ratepayers in your  
22     view?

23          A     So it depends, is the answer to that question.  
24                 Solar helps.  Obviously, from a cost-effective  
25     perspective, it's economic.  But from a reserve margin

1 perspective, solar doesn't benefit customers for winter  
2 peaks. So we have to build spinning generation in order  
3 to meet those winter peaks, and solar can't do that.

4 Q And you are aware also that as you add more  
5 and more solar, the firm capacity that is available for  
6 your planning purposes continues to drop off, isn't that  
7 right?

8 A What continues to drop off? I am sorry.

9 Q The firm capacity that comes from solar units.

10 A It does significantly decrease as the peak  
11 shifts out in time. Yes.

12 Q And, you know, are you aware that some of the  
13 -- some of the firm capacity, you know, as you are  
14 getting just a small piece of the overall ability of the  
15 solar unit to produce -- you guys are doing them at  
16 74.9, correct? Largely, the solar units are 74.9?

17 A 74.9?

18 Q Megawatts.

19 A Oh, 74.5, yes, megawatts.

20 Q But of that 75 megawatts, when you are looking  
21 at it from a reserve margin standpoint, how much is it  
22 worth today?

23 A Nothing for the winter. Small percentage for  
24 the summer.

25 Q Are you responsible for -- you have some

1 testimony on reserve margins. Are you responsible for  
2 planning of the generation units and keeping the reserve  
3 margins at certain levels?

4 A No. Witness Aponte talks about the reserve  
5 margin, covers that. But resource planning is under my  
6 responsibility.

7 Q Okay. And then, in that question, you also  
8 referenced public policy considerations -- well, that's  
9 the question. It says: Are there public policy  
10 considerations continuing to drive changes in how the  
11 company generates electricity?

12 Could you comment on what you -- when you  
13 answered yes, what public policy considerations you were  
14 referencing?

15 A Yeah. Absolutely. I was referring to recent  
16 policy, such as going back to the Clean Air Act, and  
17 then just more recently, the EPA mandates for fossil  
18 fuel units.

19 So we are starting to see -- continuing see  
20 public policy pushing for less greenhouse gas emissions.  
21 And I am just referring to the fact that being able to  
22 operate on coal is going to become increasingly  
23 challenging.

24 Q You made a comment in your testimony about  
25 coal being largely uneconomic, it continues to be



1    **uneconomic.  Could you expand on that a little bit?  I**  
2    **thought everybody was getting rid of coal.  So from**  
3    **supply and demand, why are coal prices high, if you can**  
4    **comment on that?**

5           A     John Heisey can probably be the better person  
6    to ask on the reasons for the differences in prices  
7    between natural gas and coal.

8                     Right now, coal prices are higher on an MMBtu  
9    basis than natural gas, so we aren't running the units  
10   on coal.  We are running them on natural gas.  Big Bend  
11   4 is a dual fuel unit.  It can run on natural gas or  
12   coal.  So we have been operating that unit on natural  
13   gas.

14           Q     **So that -- you basically economic dispatch**  
15   **that unit depending on pricing?**

16           A     Strictly based on economic dispatch,  
17   notwithstanding, in the winter, sometimes we have a  
18   manatee protection plan, so we do operate that unit  
19   sometimes on coal to keep the manatees warm.

20           Q     **The final point I just want to -- I just want**  
21   **to raise with you and ask you a couple of questions**  
22   **about is -- and you've been around.  You were former VP**  
23   **of Regulatory Affairs, correct?**

24           A     Yes.

25           Q     **And FIPUG, as you may recall, supports solar**

1 energy, provided it's cost-effective and needed; is that  
2 your understanding?

3 A That is my understanding, and that's still the  
4 case, Mr. Moyle.

5 Q Yeah. And with respect to the need piece of  
6 that, there is not a process now, really, that goes and  
7 looks at are, all of these solar projects, when they  
8 come in, are they needed, correct?

9 A Correct. Unless we are building a project  
10 over 75 megawatts, we would not go through a need  
11 process. Yes.

12 Q You know, so you had made reference to public  
13 policy. From a public policy standpoint, how would this  
14 commission, or others, make a judgment as to need when  
15 solar projects keep, you know, coming in, coming in,  
16 coming in, coming in, and how do you know they are  
17 needed?

18 A So I think it's important to look at the  
19 economics of the solar projects. Witness Aponte will  
20 talk to the different solar projects that we are  
21 projecting in our filing.

22 And need is important from a reserve margin  
23 perspective, but these solar projects are providing  
24 economic benefits in the form of lower fuel costs,  
25 versus the alternative of not building these solar sites

1 again. Again, that benefit is shrinking. It's  
2 continuing to shrink. And there will come a time where  
3 we cannot continue to add solar because the economics  
4 won't justify it.

5 Q And your reserve margins, you -- on page 36 of  
6 your testimony, you say that they are going to be 20 --  
7 25, reserve margins are going to be 30 percent, and  
8 winter reserve margin is 22.9. That was for 2025, is  
9 that right?

10 A Yes.

11 Q And 2026 still at 30 percent for the summer,  
12 and the winter is 23.1?

13 A Yes. That's correct.

14 Q And there is a rule -- the PSC has a rule on  
15 reserve margin that says it should be 15 percent,  
16 correct?

17 A 20 percent minimum reserve margin for IOUs.

18 Q That's in a stipulation, is it not?

19 A Yes.

20 Q And there is a rule that says 15 percent?

21 A Not for the IOUs. It's a stipulated  
22 settlement, 20 percent.

23 Q You -- the Florida Bar is going to be looking  
24 for you here on that if you keep up with this.

25 MR. MOYLE: That's all the questions I have.

1 Thank you.

2 CHAIRMAN LA ROSA: Great. Thank you.

3 FEA.

4 CAPTAIN GEORGE: Thank you, Mr. Chairman. I  
5 have no questions.

6 CHAIRMAN LA ROSA: Okay. Sierra Club.

7 MS. AMIEL: Thank you. I do have a number of  
8 questions, so I don't know if we intended to take a  
9 break. I am happy to jump in and take a break  
10 whenever is best.

11 CHAIRMAN LA ROSA: No. Let's -- it's almost  
12 five o'clock, so let's take a break now, and then  
13 we will reconvene here at 5:05, in 10 minutes.

14 (Brief recess.)

15 (Transcript continues in sequence in Volume  
16 4.)

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## CERTIFICATE OF REPORTER

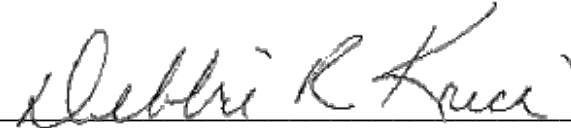
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COUNTY OF LEON     )

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

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

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

DATED this 27th day of September, 2024.

  
DEBRA R. KRICK  
NOTARY PUBLIC  
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EXPIRES AUGUST 13, 2028