

STATE OF GEORGIA  
BEFORE THE  
GEORGIA PUBLIC SERVICE COMMISSION

In Re: )  
 )  
Georgia Power Company's 2025 ) Docket No. 56002  
Integrated Resource Plan )  
-and-  
Georgia Power Company's 2025 ) Docket No. 56003  
2025 Application for the )  
Certification, Decertification )  
and Amended Demand-Side ) \*\*\* Volume 3 of 3 \*\*\*  
Management Plan )

Hearing in Room 110  
244 Washington Street  
Atlanta, Georgia

Thursday, March 27, 2025

The Session was called to order, pursuant to Notice at  
9:30 a.m.

PRESENT WERE:

JASON SHAW, Chairman  
TIM ECHOLS, Vice-Chairman  
FITZ JOHNSON, Commissioner  
LAUREN "BUBBA" MCDONALD, Commissioner  
TRICIA PRIDEMORE, Commissioner

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| WITNESSES:             | DIRECT | CROSS | REDIRECT | RECROSS |
|------------------------|--------|-------|----------|---------|
| Dr. Ross Beppler       |        |       |          |         |
| Carley Goff            |        |       |          |         |
| A. Wilson Mallard      |        |       |          |         |
| Andy Phillips          |        |       |          |         |
| By Mr. Estrada         |        | 1025  | ---      | --      |
| By Mr. Sherrier        | --     | 1037  | ---      | --      |
| By Ms. Coyle           | --     | 1116  | ---      | --      |
| By Mr. Steven Jones    | --     | 1129  | ---      | --      |
| By Mr. Moreland        | --     | 1180  | ---      | --      |
| By Mr. Kvien           | --     | 1211  | ---      | --      |
| By Ms. Sturm           | --     | 1229  | ---      | --      |
| By Mr. Baker           | --     | 1230  | ---      | --      |
| By Mr. Cox             | --     | 1256  | ---      | --      |
| By Ms. Eaton           | --     | 1261  | ---      | --      |
| Jennifer S. McNelly    |        |       |          |         |
| Robert W. Mitchell III |        |       |          |         |
| By Mr. Marzo           | 1269   |       | 1355     |         |
| By Mr. Pawluk          |        | 1305  | ---      | --      |
| By Ms. Whitfield       |        | 1329  | ---      | --      |
| By Ms. Kvien           | --     | 1332  | ---      | --      |
| By Ms. Ariza           | --     | 1338  | ---      | --      |

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

2 CHAIRMAN SHAW: Good morning, everyone.

3 Thanks for joining us again today for the third day  
4 of these hearings. We're on the second witness  
5 panel still and we'll pick up where we left off.

6 First, I'll call for appearances. This is  
7 Docket No. 56002: Georgia Power Company's 2025  
8 Integrated Resource Plan.

9 Calling for appearances starting with the  
10 Georgia Public Service Commission.

11 MR. PAWLUK: Good morning, Commissioners.  
12 Justin Pawluk for the PIA Staff.

13 CHAIRMAN SHAW: Good morning.

14 MR. PAWLUK: With me is my associate -- or my  
15 colleague, Attorney Chris Collado.

16 CHAIRMAN SHAW: Georgia Power Company.

17 MS. PRYOR: Good morning, Commissioners.  
18 Allyson Pryor, Brandon Marzo and Steve Hewitson for  
19 Georgia Power Company.

20 CHAIRMAN SHAW: Good morning.

21 Advanced Power Alliance.

22 (No response.)

23 CHAIRMAN SHAW: Advanced Power Alliance.

24 (No response.)

25 CHAIRMAN SHAW: Well, he was just here.

1 Americans for Affordable Clean Energy.

2 MR. PENLAND: Good morning. David Penland,  
3 Newton Galloway, Terry Lyndall on behalf of ACE.

4 CHAIRMAN SHAW: Clean Energy Buyers  
5 Association.

6 (No response.)

7 CHAIRMAN SHAW: Capital Good Fund.

8 MS. BROWN: Good morning, Mr. Chairman.  
9 Alicia Brown on behalf of Capital Good Fund.

10 CHAIRMAN SHAW: Fermata Energy.

11 (No response.)

12 CHAIRMAN SHAW: Georgia Association of  
13 Manufacturers.

14 MR. JONES: Clay Jones for GAM.

15 CHAIRMAN SHAW: Good morning.

16 Georgia Center for Energy Solutions.

17 (No response.)

18 CHAIRMAN SHAW: Georgia Center for Energy  
19 Solutions.

20 (No response.)

21 CHAIRMAN SHAW: Georgia Coalition for Local  
22 Governments.

23 MR. SMART: Good morning, Commissioners.  
24 Cordon Smart here on behalf of Georgia Coalition of  
25 Local Governments.

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CHAIRMAN SHAW: Good morning.

Georgia Conservation Voters Education Fund.

MR. ESTRADA: Good morning. Juan Estrada for  
GCVEF.

CHAIRMAN SHAW: Good morning.

Georgia Interfaith Power & Light and  
Southface Energy Institute.

MR. SHERRIER: Good morning. Bob Sherrier  
and Jennifer Whitfield on behalf of GIPL and  
Southface.

CHAIRMAN SHAW: Georgia Solar Energy  
Industries Association.

MR. JONES: Chairman, Commissioners, Steven  
Jones and Matthew McKagen on behalf of the Georgia  
Solar Energy Industries Association.

CHAIRMAN SHAW: Georgia Solar Energy  
Association, Georgia Solar.

Mr. Moreland.

Georgia Watch.

Ms. Coyle, she'll get here later.

Georgia WAND Education Fund, Inc. and Vote  
Solar.

MS. KVIEN: Good morning, Commissioners.  
Alison Kvien on behalf of Vote Solar and Georgia  
WAND.

1                   CHAIRMAN SHAW: Metropolitan Atlanta Rapid  
2                   Transit Authority, MARTA.  
3                   (No response.)  
4                   CHAIRMAN SHAW: Microsoft.  
5                   (No response.)  
6                   CHAIRMAN SHAW: I reckon everybody had a late  
7                   night. We're going to go late tonight.  
8                   Microsoft.  
9                   (No response.)  
10                  CHAIRMAN SHAW: Resource Supply Management.  
11                  (No response.)  
12                  Resource Supply Management.  
13                  (No response.)  
14                  CHAIRMAN SHAW: We may not be here late  
15                  tonight if these people don't show up.  
16                  Sierra Club, Southern Alliance For Clean  
17                  Energy and The Natural Resources Defense Council.  
18                  (No response.)  
19                  CHAIRMAN SHAW: Southern Renewable Energy  
20                  Association.  
21                  MR. COX: Good morning, Commissioners. Whit  
22                  Cox on behalf of the Southern Renewable Energy  
23                  Association.  
24                  CHAIRMAN SHAW: Thank you.  
25                  United States Department of Defense and All

1 Other Federal Executive Agencies.

2 (No response.)

3 CHAIRMAN SHAW: Walmart.

4 MS. EATON: Good morning, Commissioners.

5 Stephanie Eaton here on behalf of Walmart. Thank  
6 you.

7 CHAIRMAN SHAW: Good morning.

8 All right. I see you, Mr. Carver. We've got  
9 you. I knew you were here.

10 Okay. Moving on, we will -- we're going to  
11 call up and I have a sheet with our public  
12 witnesses. We've got a lot less today so we'll be  
13 able to get into the hearing a little quicker.

14 I guess the --

15 COMMISSONER McDONALD: Does that mean that's  
16 quality, less quantity?

17 CHAIRMAN SHAW: Yeah. This is just the  
18 quality. Best for last.

19 COMMISSONER McDONALD: Right.

20 CHAIRMAN SHAW: No. We've had a lot of good  
21 public comments this week. So we're going to move  
22 on.

23 I'll remind everyone that you've got  
24 three minutes each, but you're not going to get  
25 electrocuted or anything if you go past it. We

1 appreciate you. Brevity is popular here.

2 All right. We're going to start with  
3 Mr. Adam Forrand, followed by Steve Stroud.

4 MR. FORRAND: Good morning, Chairman. Good  
5 morning, Commissioners.

6 My name is Adam Forrand. I'm the president  
7 and CEO of the Greater Perimeter Chamber  
8 representing businesses in Dunwoody, Sandy Springs,  
9 and the top end Perimeter region. I appreciate the  
10 opportunity to speak with you this morning about  
11 Georgia Power's Integrated Resource Plan and why it  
12 is essential to our region's economic future.

13 The Perimeter and Metro Atlanta continues to  
14 grow at an unprecedented pace, attracting companies  
15 that create thousands of new, high-quality jobs.  
16 But behind every successful business, there's a  
17 critical factor that is often overlooked or taken  
18 for granted. And that is reliable energy.

19 Our recent success is no accident. It is  
20 built on a strong business climate, a highly  
21 skilled and diverse workforce, and, critically, a  
22 power grid that supports such growth.

23 Companies depend on energy that is not just  
24 affordable, but also resilient. Technology firms  
25 with data centers can't afford downtime in service



1 to their customers. Manufacturers need steady  
2 production in service to their customers. Small  
3 businesses, like restaurants, retailers, and  
4 service providers, count on a stable power supply  
5 in service to their customers.

6 We've all seen what happens when the grid  
7 falls short. The winter storm this January was a  
8 clear reminder of the impact power outages can have  
9 on businesses. One of our Chamber members, Vintage  
10 Pizzeria, was among those affected.

11 A well-loved, local restaurant and an engaged  
12 member of our business community, they rely upon  
13 refrigeration to keep fresh ingredients ready for  
14 their customers. When the power went out, they  
15 faced the risk of losing hundreds of dollars in  
16 food, not to mention the destruction to their  
17 employees and their customers whom they serve.

18 And it's not just one restaurant. Businesses  
19 of all sizes felt the hit, from local shops to  
20 major employers. Nationally we know that power  
21 outages cause billions of dollars to businesses  
22 each year. And the Perimeter and Metro Atlanta is  
23 no exception.

24 This is why Georgia Power's 2025 Integrated  
25 Resource Plan is so important. It makes

1 forward-thinking investments in battery storage,  
2 renewable energy, in grid modernization, ensuring  
3 backup power during outages, expanding capacity for  
4 new businesses and supporting sustainability goals  
5 that matter to our members of our Chamber. It's  
6 about keeping the lights on for everyone, from a  
7 neighborhood pizzeria, to global companies,  
8 like UPS.

9 The 2025 Integrated Resource Plan isn't just  
10 about keeping the lights on, though. It's about  
11 ensuring that the Perimeter and Metro Atlanta  
12 remain a top destination for businesses and talent  
13 for decades to come. This plan is a strategic  
14 investment in a prosperous economic future.

15 On behalf of the Greater Perimeter Chamber  
16 and as a member of the Georgia Chamber, we strongly  
17 support this plan and look forward to working  
18 alongside Georgia Power and the Public Service  
19 Commission to ensure that the Perimeter and Metro  
20 Atlanta remain powered for success.

21 Thank you for your time and your  
22 consideration today.

23 CHAIRMAN SHAW: Thank you, sir.

24 COMMISSONER McDONALD: Mr. Adam.

25 MR. FORRAND: Yes, sir.

1                   COMMISSONER McDONALD: It looked like you had  
2                   gone through the Integrated Resource Plan pretty  
3                   carefully.

4                   MR. FORRAND: Indeed.

5                   COMMISSONER McDONALD: There are parts in  
6                   there that are very controversial.

7                   MR. FORRAND: Indeed.

8                   COMMISSONER McDONALD: As you look at that,  
9                   are you speaking in total that you like the  
10                  diversification of generation that's in this plan?

11                  MR. FORRAND: On balance, the plan is what we  
12                  believe to be fair and equitable and to ensure the  
13                  sustainability, the resilience, again, and the  
14                  reliance -- the reliable energy that we need to  
15                  continue to grow as an economy, both locally and  
16                  regionally, as well.

17                  COMMISSONER McDONALD: Reliability?

18                  MR. FORRAND: Indeed, indeed. Thank you.

19                  CHAIRMAN SHAW: Thank you.

20                  Next is Steve Stroud, followed by Erin  
21                  Lupuloff.

22                  Good morning.

23                  MR. STROUD: Thank you, Chairman. Thank you,  
24                  Commission, for having me today. I am Steve  
25                  Stroud. I'm a lifetime resident of Roswell,

1 Georgia.

2 My role is president and CEO of Roswell, Inc.  
3 It's a 13-year-old organization. It's an economic  
4 development organization based in Roswell, serving  
5 the region of North Fulton.

6 My job today here is to talk to you about the  
7 importance of this IRP and what it means to the  
8 city of Roswell, what it means, more importantly,  
9 to our region.

10 As a business owner for 30 years, I ran a  
11 printing company in Roswell, Georgia. With the  
12 partnership of Georgia Power, I was able to power  
13 those presses and move things forward. But the  
14 importance of that was the infrastructure that they  
15 laid years ahead of 1978 when I opened that  
16 business. And what we found was that as we  
17 continue to grow in the region, Georgia Power has  
18 been there and they have planned ahead for what  
19 that looks like.

20 Unbeknownst to a lot of folks, even in  
21 Roswell, we're one of the capitals of car sales.  
22 \$2.1 billion in 2024 in Roswell, Georgia. The  
23 importance of that industry and what that industry  
24 brings to the State of Georgia is phenomenal. In  
25 the city of Roswell, we have key electric dealers

1 again that have popped up with their service  
2 centers, like Rivian that's been stalling right  
3 now.

4 Key pieces that are going to be part of the  
5 infrastructure of the \$4.5 billion that Governor  
6 Kemp has put into the budget for Georgia 400. And  
7 electricity and the importance of what that does  
8 for our region for companies like GM that have  
9 invested in 2017, 1,800 employees and 226,000  
10 square feet, all IT employees, that are building  
11 the infrastructure for autonomous cars or the --  
12 what I will call the electric future of GM. So  
13 important in -- in Roswell.

14 So we see this as an opportunity for growth.  
15 We see the 400 Corridor as a growth engine for the  
16 state. And, more importantly, we continue to  
17 travel. As my duties as the International Economic  
18 Development Commission, or Council, I should say,  
19 as an accredited organization, I spend time all  
20 over the country and the one thing we hear is:  
21 You-all have Georgia Power. You have Southern  
22 Company. We wished we had a utility like that in  
23 our region.

24 Because what that does for our region, things  
25 like the foresight to continue on with Plant

1 Vogtle, it's phenomenal. So I say this: The  
2 support that you will have for the 5,400 businesses  
3 that are licensed in the city of Roswell is  
4 phenomenal because Georgia Power is there every  
5 day.

6 And this is not about my future and my  
7 business. It's about the future for my kids and my  
8 grandkids. So thank you for all your efforts and  
9 thank you for your service.

10 COMMISSONER McDONALD: Thank you.

11 CHAIRMAN SHAW: Thank you, sir.

12 Aaron Lupuloff, followed by Cherie Kurland.

13 And if I mispronounced anybody's name, please  
14 correct me and I apologize.

15 MR. LUPULOFF: Actually, that was perfect.  
16 So thank you.

17 CHAIRMAN SHAW: Oh, man. Thank you.

18 MR. LUPULOFF: Good morning, Commissioners  
19 and Chairman. My name is Aaron Lupuloff and I  
20 appreciate the opportunity to speak to you-all  
21 today on behalf of the Gwinnett County Public  
22 Schools Foundation and GCPS.

23 We are the largest school district in  
24 Georgia, serving over 185,000 students, with 25,000  
25 employees, across 142 schools. Our district

1 depends on reliable, cost-effective energy. Our  
2 classrooms support digital learning and maintain  
3 safe and efficient school operations. Without  
4 consistent power, there would not even be internet  
5 at our schools or buildings.

6 As we prepare for the future, Georgia Power's  
7 2025 Integrated Resource Plan, IRP, is a critical  
8 and essential step in ensuring that our schools and  
9 the communities we serve benefit from a modern,  
10 resilient energy grid.

11 First, affordable and reliable energy is  
12 essential for GCPS. Rising electricity costs  
13 directly impact our operational budget of over  
14 \$3.6 billion, diverting resources away from  
15 classrooms, teachers and student programs.

16 A well-planned IRP helps student -- student  
17 energy costs, ensuring that our schools can  
18 continue prioritizing high-quality education, while  
19 managing utility expenses efficiently.

20 Secondly, GCPS is committed to sustainability  
21 and preparing students for the workforce of  
22 tomorrow. The inclusion of reliable and renewable  
23 energy investments, grid modernization, and energy  
24 efficiency is important for our curriculum of  
25 STEM-based energy education.

1           Many of our students will be the next  
2           engineers, technicians, and leaders shaping  
3           Georgia's energy future and we support policies  
4           that create learning and clear pathways for them.  
5           We need to make sure that our students become  
6           productive members of society. And without  
7           consistent energy, that can't happen.

8           Finally, the safety and resilience of our  
9           facilities depend on a strong energy  
10          infrastructure, whether it's ensuring HVAC systems  
11          function properly or securing school buildings are  
12          safe during extreme weather. We need a grid that  
13          can adapt to growing demands. Georgia Power's IRP  
14          moves us in the right direction by investing in  
15          grid reliability and clean energy solutions.

16          On behalf of GCPS students, teachers and  
17          families, I want to thank you for your time and  
18          consideration of our state's teacher and energy  
19          needs to support it. Forward-thinking investment  
20          in Georgia's energy future will strengthen our  
21          schools. It enhances learning, prepares the next  
22          generation for success.

23          A strong state energy plan ensures that  
24          people and businesses continue to come to Georgia.  
25          Our Gwinnett County public school graduates are



1 ready to support the current and future needs of  
2 our economy and workforce.

3 Thank you so much for your time.

4 CHAIRMAN SHAW: Thank you, sir.

5 Cherie Curlin, followed by Steve Conner.

6 MS. KURLAND: It is Cherie, mispronounced all  
7 the time.

8 CHAIRMAN SHAW: Oh, I'm sorry.

9 MS. KURLAND: That's okay. Thirty-year  
10 career as a bank auditor, life-long Republican  
11 conservative, Georgia Power customer since 2006.  
12 Georgia Power bases much of its projected energy  
13 demand on the growth of artificial intelligence.  
14 AI depends on data centers.

15 AI hallucinations range from 15 to  
16 60 percent, depending on use, and it is likely that  
17 AI answers will be more skewed, more erroneous over  
18 time. AI natural language answers seduce users  
19 into trusting it and help diminish our  
20 critical-thinking skills.

21 The data center industry says its buildings  
22 have a useful life of maybe 10 to 20 years, likely  
23 less, as new chip and server technology appear. Do  
24 Georgia Power models factor in this life span?

25 No one talks about the effects of China's

1 competitive technology, such as DeepSee AI. No one  
2 will say what happens once those buildings can't be  
3 used. No one discusses the possibility of  
4 upgrading or remodeling the 5,300 data centers that  
5 already exist in the U.S.A.

6 No Georgia entity audits to see whether any  
7 promise made by the data center developers about  
8 energy use, pollution of any sort, carbon,  
9 articulate, noise, light, water use or jobs created  
10 is capped. But every state, including Georgia,  
11 that has tried to determine whether the huge tax  
12 abatements and subsidies given to data centers are  
13 worthwhile has found out that they are not  
14 worthwhile.

15 Please question Georgia Power's assumptions  
16 about power needs. Your staff is asking very good  
17 questions. The intervenors are asking very good  
18 questions.

19 Here is something you can do. The Court of  
20 Federal Claims awarded Alabama Power \$100 million  
21 and Georgia Power \$121 million last summer. In  
22 December 2024, the Alabama PSC ordered Alabama  
23 Power to return the award to its customers.

24 Commissioners, you have the power to order  
25 Georgia Power to credit back this \$121 million to

1           its customers. The Georgia Bulldogs may not always  
2           beat Alabama in football, but this is one way  
3           Georgia can beat Alabama. Please make that happen.

4           Accountability and transparency are  
5           non-partisan concerns. Please question whether  
6           Georgia Power, a monopoly, can truly justify its  
7           expensive trade-secret claims and data redactions  
8           from the public. Perception matters, especially in  
9           an election year.

10          Your voters, many Georgia Power residential  
11          customers, need you to serve them. As concerned  
12          commentator Erick Erickson titled his book: You  
13          Will Be Made to Care.

14          Thank you.

15          COMMISSIONER PRIDEMORE: Ma'am.

16          MS. KURLAND: Yes.

17          COMMISSIONER PRIDEMORE: So one thing that I  
18          just -- I don't think it's -- I don't think the  
19          news is getting out. And you being involved in  
20          conservative politics, I'm certain that you  
21          understand that what Republicans do most of the  
22          time just doesn't get covered in the media.

23          MS. KURLAND: True.

24          COMMISSIONER PRIDEMORE: It doesn't. And the  
25          transparency and the things that this Commission

1           has done, they couldn't care less. But this  
2           Commission is what stands as the transparent and --  
3           this very process that you're a part of today is  
4           the transparent and hard-working arm that holds the  
5           data centers accountable.

6                     We've issued rules that make sure that  
7           bringing data centers to Georgia puts downward  
8           pressure on your bills and my bills and all of our  
9           bills, while at the same serving this important  
10          national security imperative.

11                    So I hope that those listening or those that  
12          care will care enough to talk to their friends and  
13          neighbors. But at the end of the day, we've been  
14          working for years to ensure that the energy serving  
15          to data centers that this Commission oversees is  
16          transparent, and it's fair, and it makes the  
17          companies that are being involved in this that they  
18          pay, and you don't pay and others don't pay.

19                    But it's something that we take very  
20          seriously, work very hard at. And hopefully as  
21          news will travel and people will start to pay more  
22          attention and that news will get to folks like you.  
23          I -- I always hate it when I see people that come  
24          down here to the Commission and they're stressed  
25          over something that has already been solved.

1           But if there is ever any way that any of us  
2           can assist you or help you, that's our jobs.  
3           That's what we do. So we'd loved the opportunity  
4           to do that.

5           MS. KURLAND: Yeah. And my suggestion -- I  
6           just gave this to someone with Georgia Power. I  
7           was in bank auditing and that is covered in  
8           acronyms. So one of its major challenges is trying  
9           to figure out how to translate all of the industry  
10          acronyms into something that some farmer in Waleska  
11          (phonetic), forgive me, can understand. And it is  
12          very, very difficult.

13          The January ruling that y'all have, my  
14          concern with that is that it does use the language:  
15          Georgia Power may at, Georgia Power's discretion,  
16          this might happen.

17          So the intent certainly is: Data centers,  
18          look, if you come in and you're using all these  
19          megawatts, you figure out how to make it green,  
20          payable, all of that.

21          I'm actually more concerned about the water  
22          use. The two out of the seven data centers that  
23          are in the pipeline now in the regional commission,  
24          just two of them will -- have said that they will  
25          use 533,000 gallons of water a day.

1           Now, the reason I bring up that is because  
2           House Bill 449 just passed out of the Senate  
3           Regulated Utilities Commission. So, guess what,  
4           y'all, yesterday was a slog for ten hours, imagine  
5           if you now will wind up with all of the private  
6           water systems, as well.

7           COMMISSIONER PRIDEMORE: We won't. They  
8           gutted the bill. They gutted the bill.

9           MS. KURLAND: There you go.

10          COMMISSIONER PRIDEMORE: It doesn't involve  
11          the Commission anymore and they're free to continue  
12          business as usual.

13          MS. KURLAND: Yay.

14          COMMISSIONER PRIDEMORE: But the rules -- the  
15          rules that the Commission passed in January, which  
16          were solidified off of an April 2024 decision,  
17          they're not "mays". They're "wills", they're  
18          "shalls".

19          MS. KURLAND: Okay.

20          COMMISSIONER PRIDEMORE: So 15-year contracts  
21          for data centers, as well as a pay of construction  
22          costs.

23          MS. KURLAND: Yeah. And that's where that --  
24          of course, my background is in auditing. So I want  
25          to see that post-construction, that post-award

1           audit that's done to make sure that, you know, if  
2           -- if Georgia Power has made a promise, if  
3           Microsoft has made a promise, if QTS, whoever.  
4           That if they say, "Yes, we're bringing these jobs.  
5           Yes, we're doing this, that and the other," that  
6           they actually do it. And if they aren't and if  
7           they don't, then they're accountable, so...

8           COMMISSIONER PRIDEMORE: This Commission will  
9           do it every three years in an Integrated Resource  
10          Plan, just like we're doing right now. But thank  
11          you.

12          MS. KURLAND: Thank you.

13          CHAIRMAN SHAW: Thank you, ma'am.

14          MS. KURLAND: Okay.

15          CHAIRMAN SHAW: Steve Conner, followed by  
16          Tori Gravley.

17          MR. CONNER: Good morning, Mr. Chairman and  
18          Commissioners.

19          CHAIRMAN SHAW: Good morning.

20          MR. CONNER: My name is Steve Conner and I  
21          own and operate two sawmills, DuPont Pine Products  
22          and Conner Holding in Homerville, Georgia, which is  
23          both in South Georgia. If you don't know where  
24          that's at, that's down --

25          CHAIRMAN SHAW: I know where that's at.

1           MR. CONNER: The two sawmills that continue  
2           to grow and the economy that we provide, jobs  
3           supported by the forestry in producing essential  
4           wood crop. In 2024, we expanded our operation in  
5           Homerville by adding a new pellet mill, an  
6           investment that required significant power,  
7           infrastructure upgrade.

8           Like any other business, we're dependent on  
9           reliable power in order to stay competitive, in  
10          order to ensure our employees have stable,  
11          well-paying jobs. The process of securing the  
12          necessary power for our expansion was challenging,  
13          due to the long lead times, critical components,  
14          like underground transformers.

15          However, thanks to the dedication of Georgia  
16          Power's team, which includes Barbara Goan, Brent  
17          James, Paul Phillips and Gene Croft, we were able  
18          to do this. And it was a team effort from Georgia  
19          Power to really do that.

20          And we -- we really ran into a lot of  
21          problems and they pulled it through. This  
22          experience completely demonstrates what long-term  
23          planning, investment in grid reliability, resource  
24          availability, key aspects of the IRP, are crucial  
25          to businesses like mine.



1           We need to ensure that we have adequate  
2           insurance -- adequate energy for the growth, which  
3           Georgia Power is building to plan ahead and invest  
4           in critical infrastructure. It's crucial to the  
5           success of our business.

6           I encourage the Commission to support the IRP  
7           to ensure that businesses like mine continue to  
8           grow and contribute to Georgia's economy with the  
9           confidence that our energy needs will be met both  
10          now and in the future.

11          Thank y'all.

12          CHAIRMAN SHAW: Thank you, Mr. Conner.

13          COMMISSONER McDONALD: Mr. Conner, you're in  
14          a business where the rubber meets the road in  
15          regards to what's happening at the top, i.e., the  
16          administration in Washington. There's a lot of  
17          conversation about lumber and tariffs. Do you have  
18          any thoughts of what's happening in that regards?

19          Is it positive? Is it negative? Or what is  
20          it going to do with your need to use the power?

21          MR. CONNER: Well, one example is Georgia has  
22          tremendous amounts of timber. I mean, we are very  
23          blessed. Most of it's south of Macon. Most of it  
24          gets cut south of Macon.

25          So there's a lot of need for energy in that

1 area. The tariffs could be good or they could be  
2 bad. A lot of Canadian companies have come to the  
3 south and bought sawmills. So they have the double  
4 sword.

5 They've got milling in the south in the  
6 United States, in Georgia, all over the country.  
7 And they have them in Canada. To us in the private  
8 company that -- we really think the tariffs would  
9 be good, but we don't know that yet.

10 I think it's like the tariffs on everything.  
11 We're not sure. But we need the energy. The  
12 tariffs are going to be what they're going to be.  
13 So we'll know that shortly.

14 COMMISSONER McDONALD: Thank you, Mr. Conner.  
15 Your business is, like I said, the rubber meets the  
16 road.

17 MR. CONNER: Yes.

18 CHAIRMAN SHAW: Thank you, Mr. Conner. And  
19 you clean up nice for an old logger from South  
20 Georgia.

21 MR. CONNER: Thank y'all.

22 CHAIRMAN SHAW: All right. Tori Bradley.  
23 Good morning.

24 MS. BRADLEY: Good morning, Chairman and  
25 Commissioners. My name is Tori Bradley. I am the

1           downtown development director for a very small town  
2           in the southwest corner of the state called  
3           Dawsonville, Georgia.

4           We may be a small town, but we rely on  
5           reliable energy infrastructure, just as much as any  
6           major city. That's why I want to express my  
7           support for the Integrated Resource Plan and the  
8           positive difference it is making for communities  
9           like ours.

10          For Dawsonville, having dependable,  
11          affordable power is just -- isn't just a  
12          convenience. It's a necessity. When the lights  
13          stay on, businesses can operate and families can  
14          live without worrying about sudden outages or high  
15          energy costs.

16          The IRP's focus on improving grid reliability  
17          and keeping rates stable is a lifeline for rural  
18          areas, like ours, where every dollar matters. I  
19          also appreciate the forward-thinking approach of  
20          the IRP. Investing in a balanced energy mix,  
21          including renewables, makes sure we're not just  
22          keeping up. We're preparing for the future. For  
23          someone like myself, it is a tool in my tool box to  
24          recruit and attract new businesses in creating jobs  
25          and ensuring our residents and future residents

1           have access to affordable, sustainable power right  
2           there at home.

3           For example, the EV chargers were brought  
4           into our downtown area about a year ago. And the  
5           84 Corridor runs right through the middle of our  
6           town. Our downtown area is right off of that. So  
7           there wasn't a whole lot of reason to stop and  
8           visit our downtown.

9           But now that our EV charges have been  
10          strategically placed in the downtown, we have  
11          brought in a lot of out-of-towners through tourism.  
12          They stop, they charge their car, and they walk  
13          around the downtown. They patronize our local  
14          downtown businesses. And as a DDA director, this  
15          is a win for us in a small rural town.

16          I urge you to keep rural communities, like  
17          Dawsonville, in mind as you move forward. We may  
18          not always have the loudest voice in the room, but  
19          the decisions made here have a direct impact on our  
20          daily lives.

21          I thank you for your time and for your work  
22          in shaping Georgia's energy future.

23          CHAIRMAN SHAW: Thank you. And thank you for  
24          taking the time to come up here. I know it's not a  
25          short drive to Dawsonville.

1 MS. BRADLEY: It's not. But it's not so much  
2 the drive, it's once you get in the inner corridor  
3 here in Atlanta.

4 COMMISSIONER PRIDEMORE: Yes.

5 MS. BRADLEY: I also want people to live in  
6 small towns. That's where I'm headed.

7 COMMISSIONER PRIDEMORE: Thanks for coming  
8 all this way.

9 CHAIRMAN SHAW: Thank you.

10 That actually concludes the list. But if  
11 there is anyone else that did not sign up that  
12 wanted to address the Commission, then now is the  
13 time.

14 (No response.)

15 CHAIRMAN SHAW: Okay. Well, thank you-all to  
16 everyone that showed up and took the time to speak  
17 to us this morning. We're going to take a quick  
18 break and then allow the witnesses to get prepped  
19 and ready to go. And we'll get started in about  
20 five minutes. 10:19.

21 (A recess was held.)

22 CHAIRMAN SHAW: Okay. Good morning, again.  
23 We'll get started with cross-examination.

24 Before we move on, were there any  
25 housekeeping matters to take up?

1 (No response.)

2 CHAIRMAN SHAW: Okay. I'd like to remind the  
3 Panel that you're up -- you're still under oath and  
4 we will pick up where we left off yesterday.

5 It looks like the next intervenor up is  
6 Georgia Conservation Voters Education Fund.

7 CROSS-EXAMINATION

8 BY MR. ESTRADA:

9 Q. Good morning, good morning.

10 A. (Multiple Witnesses) Good morning.

11 Q. So just a few questions. I don't think  
12 they're going to be too rough.

13 Is Georgia Power pursuing any federal  
14 incentives flowing from the Inflation Reduction Act?

15 A. (Witness Mallard) I'll speak in the renewable  
16 arena. Georgia Power is pursuing all applicable funding  
17 from the IRA, as well as other funding that might be  
18 available from the federal government. As that applies to  
19 renewables, that would be for self-build projects. But,  
20 furthermore, we would expect that projects that bid into  
21 our competitive RFPs are taking advantage of all the  
22 resources that are available to them.

23 And so that has impacted our RFPs. We talked  
24 about that a little bit yesterday. Some of the  
25 uncertainty around those funds has created some

1       uncertainty in the marketplace.

2                       So we leverage them in the renewable arena  
3       for our own projects, but we also expect and know that  
4       bidders are counting on either tax credits or grants or  
5       other funding, as well, to support the economics of their  
6       renewable projects.

7               A.       (Witness Beppler) And I'll just add that the  
8       direct answer is, yes, we've designed our programs to be  
9       able to stack some of those additional incentives, but not  
10      be dependent on those sources of funding for the success.

11              A.       (Witness Goff) And one more piece of data for  
12      you. GEFA has been a regular member of the DSM working  
13      group process over the last couple of years. So to the  
14      extent funds are available, we want to partner in order to  
15      make it easy for customers.

16              Q.       Okay. Just a few specifics on the programs  
17      themselves. Anything with the Energy Infrastructure  
18      Reinvestment Program?

19              A.       (Witness Beppler) Are you looking for  
20      specific examples of funding?

21                      Can you just clarify that?

22              Q.       Yeah. So -- so essentially what I'm trying  
23      to get at is, like, how deep are you guys going into it,  
24      how aggressive are you guys pursuing it?

25                      So I'm just asking specific. You know, I'm

1 going to go line by line with about four programs. Just  
2 kind of give me, like, what Georgia Power is doing with  
3 each of these programs, if you could.

4 A. (Witness Mallard) Yeah. Okay. So please  
5 repeat.

6 Q. The Inflation -- I'm sorry. The Energy  
7 Infrastructure Reinvestment Program.

8 A. (Witness Mallard) Yeah. So I know the  
9 company is in pursuit of funds as it relates to supporting  
10 some power delivery activities, but not -- not our area of  
11 expertise. We're not going to have very much additional  
12 information about that. But I can confirm that the  
13 company is active in pursuing the funds to support some  
14 grid investments.

15 Q. Fair. What about the Transmission  
16 Facilitation Program?

17 A. (Witness Mallard) I'm just not -- I'm not  
18 sure.

19 Q. Okay. The Transmission Infrastructure  
20 Program?

21 A. (Witness Beppler) I think the transmission  
22 funding sources probably would have been better addressed  
23 to Witness Robinson on Panel 1.

24 Q. Okay. And the Grid Innovation Program?  
25 I've just got to get these questions out.



1           A.       (Witness Beppler) Same there.

2           Q.       Okay. So your testimony included some of the  
3 programs that were up for decertification. I'm just going  
4 to go down the list of a few of them and just ask a few  
5 questions about them.

6                   The Residential Refrigerate -- Refrigerator  
7 Plus Program, could you just tell us what that is so that  
8 we can have a good base?

9           A.       (Witness Goff) Sure. So that was a program  
10 that we're currently implementing this cycle where  
11 essentially customers who had a second refrigerator or  
12 dehumidifier could get that picked up by the company for a  
13 fee. And so that resulted in energy savings, you know, as  
14 we recycle those old appliances.

15                   Now, that is one that we're asking  
16 decertification of. What we've seen in the market is that  
17 the vintage of the appliances we're picking up are newer.  
18 And so there's less savings associated with what we're  
19 picking up. And, in addition to that, the costs are the  
20 same. So the cost-effectiveness of that program have  
21 really diminished over time.

22                   Adding on to that, the contractor network has  
23 also been challenging. So it's really created a -- not  
24 the best customer experience. And so for those reasons,  
25 declining economics, not cost-effective, and the customer

1 experience has declined, we are seeking decertification of  
2 that program.

3 Q. Do you guys have specific numbers as to how  
4 many people used these -- this program?

5 A. (Witness Goff) I'm confident we have those  
6 numbers. I don't have them here today.

7 Q. Okay. Do you know what area of Georgia would  
8 be the primary kind of consumers?

9 Would you say, like, urban, rural, this  
10 county, that county? Could you tell us that?

11 A. (Witness Goff) I'm so sorry. I know our  
12 implementation team would have all those details. I don't  
13 have them with me.

14 Q. Okay. So you mentioned cost concerns being a  
15 reason that you want to decertify; is that correct?

16 A. (Witness Goff) That's correct.

17 Q. Okay. And in your testimony, I believe you  
18 said -- or I believe it was said that it would be  
19 reallocated to other programs?

20 A. (Witness Goff) That's right. So we are  
21 seeking decertification of that program and then we're  
22 seeking the expansion of our other existing programs in  
23 the certification of one new residential products program.

24 Q. Okay. Any other resources coming out of the  
25 decertification of this program being allocated to -- in

1 anticipation of the 2025 IRP being approved?

2 A. (Witness Goff) So we bring all of our plans  
3 forward to the Commission as part of this process. The  
4 demand-side process is an integral part of the overall IRP  
5 and so we do seek approval of our plans through this  
6 process.

7 Q. Okay. So I'd like to move on to the  
8 Residential Specialty Lighting Program. Testimony cites  
9 that resources are being allocated to the program. Could  
10 you tell us what those resources are? Is it monetary?

11 Is it capacity? Is it -- what would that  
12 look like?

13 A. (Witness Goff) Do you have a reference in the  
14 testimony?

15 Q. Somewhere, yeah. One second.

16 A. (Witness Goff) And if you don't, I'm happy to  
17 just talk through that program in general and why we're  
18 seeking decertification of it, as well.

19 Q. If you could while I pull it up.

20 A. (Witness Goff) Yeah. Sure. So the  
21 Residential Specialty Lighting Program is another program  
22 we're seeking decertification of. Lighting for years on  
23 the residential side has been a cost-effective way to get  
24 energy savings. So that program has provided many  
25 benefits through the years, but what we're seeing is that

1 codes and standards have changed such that it's not really  
2 necessary to incent that behavior anymore.

3 So the cost-effectiveness of that program has  
4 declined. And so for those reasons, we're seeking  
5 decertification of that residential lighting program.

6 Now, there is still potential for lighting  
7 efficiency on the commercial side and you'll see that in  
8 our commercial programs. But the cost-effectiveness on  
9 the residential side is just not where it used to be.

10 Q. Okay. Is any of the -- and when I -- my  
11 reference is page 17 of the testimony. It would be  
12 lines 1 through 4 -- or maybe 16, as well. So starting on  
13 lines 25 on page 16 through 4.

14 And they're just general statements. I'm  
15 just asking for an expansion on them. Would any of the  
16 costs or any of the resources be reallocated to any of the  
17 data centers being proposed in this IRP?

18 Or any of the resources be reallocated in  
19 that direction?

20 A. (Witness Goff) So, in general, our DSM plans  
21 will go to serve the system. So whatever is approved  
22 through this process, that will allow the company to plan  
23 for less.

24 So to the extent the company has an overall  
25 resource need, DSM -- the approval of DSM programs reduces

1 what we would otherwise need in order to serve our  
2 customers reliably across the state.

3 Q. But there's no specific, like, line item,  
4 "Okay. We take it from here. We put it over there," sort  
5 of analysis or statement that you could give?

6 A. (Witness Goff) So we do put -- and  
7 Dr. Beppler or Mr. Phillips could add to this. Our  
8 demand-side, our dispatchable demand-side options go on  
9 our resource ledger as DSOs. That information is included  
10 in the main filing. And then any energy reductions we get  
11 through our demand-side programs are incorporated into the  
12 forecasts. And so we are planning for less as a system as  
13 a result of these programs.

14 A. (Witness Phillips) Counselor, are you asking  
15 if the dollars what were allocated to specialty lighting  
16 are going to be reallocated to other energy-efficiency  
17 program?

18 Q. That, and any other resources vaguely  
19 described in the testimony.

20 A. (Witness Phillips) I think the dollars that  
21 were allocated to the Specialty Lighting Program, we are  
22 asking for additional dollars to support the  
23 energy-efficiency programs in our proposed case. And so  
24 those dollars would be repurposed to support the other  
25 programs or the other initiatives that we're seeking

1 approval for in this IRP, specifically for demand-side  
2 management.

3 Q. I guess what I'm getting to is: Are these  
4 programs being asked to be decertified so that we can --  
5 so that those resources would be allocated to data center  
6 specifically if this 2025 IRP gets approved?

7 A. (Witness Goff) No.

8 A. (Witness Phillips) When you -- when you say  
9 reallocated to data centers, could you be more specific in  
10 what you're asking there?

11 Q. Well, it's more so like a direct -- is there  
12 a direct proposal, like, a one-to-one proposal from the --  
13 is there a reallocation of the resources from these  
14 programs to what's being proposed in this 2025 IRP?

15 Is there a specific kind of transferred  
16 dollar? Do you guys have any sort of data on that or any  
17 plans specifically?

18 A. (Witness Goff) No. We are not -- we are  
19 seeking decertification of these programs because they're  
20 no longer cost-effective. That's not driven by the data  
21 centers. That's just driven by the economics of the  
22 programs themselves.

23 And so, as Mr. Phillips described, those  
24 programs are coming out of our budget request to the  
25 Commission and then we've introduced new programs and the

1 expansion of other programs in our demand-side plan for  
2 this process.

3 A. (Witness Beppler) And I'll just add there,  
4 even though there are particular programs which we're  
5 seeking decertification of, overall we're expanding the  
6 portfolio of demand-side options.

7 A. (Witness Phillips) And just one other point  
8 about speciality lighting. In the handout that staff  
9 counsel provided yesterday, Commissioners, specialty  
10 lighting, year-to-date, 2024 through the fourth quarter, I  
11 believe, had the second highest amount of  
12 energy-efficiency savings of any of the programs. Those  
13 savings are no longer going to be available because that  
14 program is discontinued because of some of the reasons  
15 that Witness Goff has shared today.

16 And so historically that program, as well as  
17 many of our residential lighting programs, have delivered  
18 significant savings for both our programs, as well as our  
19 customers. That's no longer possible.

20 So if you review the proposed case, you'll  
21 see we're having to go identify and secure those savings  
22 in other programs and in several areas more extensive  
23 energy-efficiency measures.

24 Q. Now, could you tell us -- and we're going to  
25 move on to the next program seeking to be certified or one

1 of the other ones. The Commercial Behavioral Program,  
2 could you tell us what that is in short?

3 A. (Witness Goff) Yes. And so the Commercial  
4 Behavioral Program, like the Residential Behavioral  
5 Program, was intended to provide customers tips on ways to  
6 change their usage in order to result in lower energy  
7 savings on their bill.

8 As part of the 2022 IRP order, that was one  
9 that the company was instructed to do an evaluation for.  
10 And then pending the evaluation results kind of see what  
11 the future of that program would be. That evaluation  
12 deemed that that program was no longer cost-effective.  
13 And so to be in compliance with the 2022 order, we paused  
14 activity and we're seeking decertification in this case.

15 Q. Could you just go into a little about what  
16 made that cost-effective?

17 To most people, you know, small businesses  
18 getting a break on power is a good idea. Could you just  
19 go a little bit into what makes it not cost-effective?

20 A. (Witness Phillips) Well, I think the cost of  
21 the programs are greater than the benefits that we were  
22 able to identify. And if you're considering  
23 cost-effectiveness from a total resource cost perspective,  
24 then it simply means the costs are greater than the  
25 benefits.



1           Q.     Could you expand on those costs and the  
2     benefits?

3           A.     (Witness Phillips) I'm not familiar with all  
4     of the ins and outs and the details of the cost of that  
5     particular program, but there's the cost to administer it,  
6     the cost of producing the information. I would imagine  
7     there's probably some EM&V costs included in there, as  
8     well.

9                     And so when we evaluate or measure the  
10    benefits -- the quantifiable benefits that we're  
11    realizing, as well as our customers are realizing, it did  
12    not outweigh the cost of the program itself.

13          A.     (Witness Goff) Now, I will say there are  
14    other commercial programs available. So through our  
15    proposed case there's still the Commercial Prescriptive,  
16    Commercial Custom, and the Commercial SCDI. So we do  
17    still have a range of programs designed to -- to benefit  
18    our commercial customers.

19          A.     (Witness Beppler) And I'd just like to add,  
20    the evaluations are done by an independent third-party.  
21    So it's not the company directly assessing the costs and  
22    benefits.

23                     We're really contracting for an independent  
24    third-party to identify those costs and benefits and the  
25    cost-effectiveness of that program.

1           Q.     And this may be a little repetitive. Any of  
2 the dollars, resources, going to that program or that were  
3 going to that program being reallocated directly towards  
4 the data centers proposed -- or the increased in data  
5 centers proposed in the 2025 IRP?

6           A.     (Witness Goff) No. Data centers are not  
7 driving our decertification requests. Our decertification  
8 request on that program is based on cost-effectiveness.  
9 Those funds have come out of our proposed case and then we  
10 have new funds included in the proposed case to hit that  
11 741 gigawatt-hour goal.

12           MR. ESTRADA: Thank you all. No further  
13 questions.

14           CHAIRMAN SHAW: Thank you, sir.

15           Next is Georgia Interfaith Power & Light and  
16 Southface Energy Institute.

17           Good morning.

18           MR. SHERRIER: Good morning, Commissioners,  
19 Panel.

20           MR. MALLARD: Good morning.

21           CROSS-EXAMINATION

22           BY MR. SHERRIER:

23           Q.     A number of my opening questions were asked  
24 yesterday. So I only have two requests now about the  
25 residential and commercial solar and storage pilots.

1                   First is: Can we get a shorter name for the  
2 program?

3                   How are y'all referring to it?

4           A.       (Witness Beppler) If that's the level of  
5 detail we're at, I think -- I think this is going to be a  
6 successful program.

7           Q.       Well, the second thing is: As you finalize  
8 the details of it, would you consider expanding  
9 eligibility to include larger customers that may have  
10 complementary load profiles to the program?

11                   So, for example, larger houses of worship  
12 that may not have, you know, as much as --

13           A.       (Witness Beppler) As I mentioned yesterday,  
14 in the pilot it was residential and small commercial. And  
15 I think we've set that 250kW threshold to get familiar  
16 with the technology. We think that will be simple, easier  
17 to implement. But we anticipate getting learnings from  
18 that. And that's certainly something we could explore  
19 going forward is increasing the size eligibility once we  
20 establish some of the baselines of this program.

21           A.       (Witness Mallard) We do have a program  
22 available for larger customers for customer-sided solar  
23 and storage. And so we've made a proposal to modify the  
24 customer-connected program to add storage as an option.  
25 And so that's a front-of-the-meter option, still

1 customer-sided, but wired directly off to the grid where a  
2 customer with the solar and storage enter into a long-term  
3 agreement with the company, but the storage resource would  
4 remain for resiliency purposes in times of grid outage for  
5 -- for those customers. So we do have an option for  
6 customer-sided solar and storage. Just a little bit  
7 different structure for the larger customers.

8 Q. Thank you.

9 Mr. Mallard, I have, first, just a  
10 clarification. How much storage was procured in the  
11 2022-23 utility-scale RFP. So we've got Flint River,  
12 Wadley, Washington County.

13 A. (Witness Mallard) I don't believe any storage  
14 was procured, subject to check, with those energy-only  
15 solar procurements.

16 Q. I believe that Table C-5 in the IRP at  
17 page 132 classifies those as solar and storage.

18 A. (Witness Mallard) Yes. So in that -- that  
19 RFP, supply chain challenges required the company to  
20 present the Commission the option to extend the CODs,  
21 which we did. And so we gave it an extra year. That  
22 provided the flexibility that these developers needed to  
23 ensure the projects were viable.

24 Additionally, even though the projects were  
25 bid with solar-plus-storage, they had some challenges

1 through supply chain to get the storage resources. And so  
2 we made a modification to the PPAs that allowed the  
3 projects to come forward without storage, even though the  
4 requirement initially was to have storage.

5 Q. Okay. So there are no batteries at those  
6 three locations; right?

7 A. (Witness Mallard) Subject to check, I don't  
8 think there are.

9 Q. And you're not planning on them?

10 A. (Witness Mallard) They're able to meet the  
11 requirements of the PPAs as constructed.

12 Q. Thank you.

13 You said yesterday that the 1,000 megawatt  
14 initial target for the utility-scale procurements were  
15 based, in part, on your procurement expectations from  
16 ongoing RFPs?

17 A. (Witness Mallard) Partly, yes.

18 Q. What are the procurement expectations from  
19 ongoing RFPs and how did it inform your request in this  
20 IRP?

21 A. (Witness Mallard) So, again, I'll politely  
22 refrain from speculating on how many megawatts we might  
23 procure in the ongoing RFP that -- where we're getting  
24 close to negotiations with the PPA and any -- that  
25 information is restricted. I just can't talk about it.

1 But I will say that RFP, the 2023  
2 utility-scale RFP, was seeking 2,875 megawatts. That  
3 includes some rollover from the prior RFP before.

4 Additionally, we're committed to procure at  
5 least 475 megawatts from the next RFP due to be issued  
6 this summer in 2025. That RFP will target the 475 and any  
7 unprocured from this current solicitation.

8 So I've got just a bit of a lining up of  
9 planes on the runway here. We're going to land the first  
10 plane in PPAs in the 2023 RFP and see how that informs the  
11 target for '25. And then ultimately the result of the '25  
12 RFP will inform the next RFPs.

13 We've got 3,400 megawatts of solar on the  
14 ground. We're out for about 3,500 right now, all totaled,  
15 and then adding this new 1000-megawatt target as part of  
16 the long-term plan to get 4,000. It's a significant  
17 amount of renewables that are either in the process of  
18 being procured or that we're planning to procure by 2035.

19 Q. So how did it inform your request for  
20 1,000 megawatts as a starting point?

21 A. (Witness Mallard) Yeah. I would say the  
22 1,000 is probably more informed by prior RFPs. The  
23 largest procurement the company has ever procured in an  
24 RFP is 970 megawatts. Eventually one project in that  
25 procurement dropped out. So that procurement ended up

1     procuring energy from 750 megawatts.

2                     So there is an upper limit in the  
3     practicality of the total amount of resources that can be  
4     procured just through one process; the number of projects  
5     that developers can bring forward that can be evaluated  
6     for the transmission impacts and can ultimately be -- can  
7     ultimately be contracted for and brought online. So some  
8     of our learnings from prior RFPs have informed that  
9     1000-megawatt target.

10            Q.     And I do want to talk about those RFPs. But,  
11     I guess, I'm curious about the ongoing RFPs and how that  
12     informs.

13            A.     (Witness Mallard) Yeah. I'm not going to  
14     even speculate about any results or potential results from  
15     the current RFPs, I beg your pardon.

16            Q.     I'm not asking you to. I'm asking you how it  
17     informed your 1,000-megawatt request here, like in your  
18     testimony.

19            A.     (Witness Mallard) I think that's the same  
20     question. I'm just sorry. I'm very respectfully going to  
21     decline to answer any questions about the ongoing RFPs and  
22     expected procurements.

23            Q.     On page 78 of the IRP itself, you recognize  
24     multiple dynamic challenges in the procurement process. I  
25     want to walk through a couple of those.

1                   What is Georgia Power's proposed solution to  
2 the transmission system capacity constraints?

3           A.       (Witness Mallard) I think we heard a lot from  
4 Panel 1 about the strategic transmission initiatives and  
5 how Georgia Power is planning to expand the transmission  
6 system both to serve customer load and to facilitate  
7 additional generation. So I really don't have anything to  
8 add beyond what Panel 1 went through in a good amount of  
9 detail on the first couple of days.

10          Q.       So you expect that to unlock additional solar  
11 capacity?

12          A.       (Witness Mallard) I do. As well as some of  
13 the tools that we're putting forward, both utility-scale  
14 and DG RFP. Yesterday the mention of the SIGHT tool,  
15 which we think is a really big improvement that will help  
16 utility-scale solar developers identify locations on the  
17 transmission system that are more favorable for  
18 interconnection.

19          Q.       I was playing on that tool last night. It's  
20 great.

21          A.       (Witness Mallard) Yeah. It's cool.

22          Q.       What is Georgia Power's proposed solution to  
23 the changing interconnection processes and requirements;  
24 that challenge?

25          A.       (Witness Mallard) That really is referring



1 specifically about the changing FERC-governed cluster  
2 interconnection process. So it's brand-new. Just very  
3 quickly, transmission interconnections traditionally have  
4 been through a serial process, or first-come, first-serve.  
5 And through FERC Order 2022, that whole process has been  
6 revamped such that now it's really targeting first-ready,  
7 first-serve.

8           And they do that through the cluster process.  
9 Once a year, projects will be gathered together in a  
10 cluster application period. That's actually happening  
11 right now. First one that we've conducted here in the  
12 southeast.

13           From that, those projects will be evaluated  
14 for the local interconnection costs. From there, projects  
15 will then understand what those local costs are and then  
16 we can evaluate them in our renewable procurement  
17 processes for additional costs that might be needed to  
18 deliver that energy to our customers.

19           So it's still somewhat uncertain exactly how  
20 that process is going to play out. This is the first one.  
21 We want to make sure that our RFPs dovetail into that new  
22 process. We want to make it as viable for developers as  
23 we can for them to get the projects interconnected and  
24 then successfully compete in our RFPs.

25           Q.       So what I heard is that you're hoping the

1 second cluster will be smoother, I guess; just a simple  
2 thing?

3 A. (Witness Mallard) Even -- even beyond that,  
4 we're down -- we're down in the weeds. What the company  
5 has proposed that hasn't been approved by FERC yet is  
6 something we came up with called a resource -- resource  
7 solicitation cluster.

8 This would be a cluster that would be  
9 specifically around projects that we're bidding in  
10 competitive RFPs. This overall process was developed by  
11 FERC probably based more on being responsive to other  
12 markets -- deregulated markets across the country.

13 And so with our competitive process, it's  
14 important to line up the timelines of interconnection with  
15 the RFP analysis. And so one day we hope to modify for  
16 this resource solicitation cluster process. Not approved  
17 yet.

18 And so until it is, we're going to -- we're  
19 going to go with the pro forma cluster process. We're  
20 going to make sure that we nest our RFP timelines into the  
21 timelines for that interconnection process as best we can.

22 Q. Thank you.

23 So shifting a little bit to the distributed  
24 generation RFPs. After the 2022 IRP, you made a map to  
25 help developers better identify locations to site the

1 hosting capacity tool?

2 A. (Witness Mallard) Yes.

3 Q. Did any developers use that map?

4 A. (Witness Mallard) Oh, yes. Yes. It's got  
5 significant use. I can't quote the stats out of hand, but  
6 in this most recent RFP, significant number of projects  
7 used both the hosting capacity and the interconnection  
8 guidance tools that are offered in the DG market. We've  
9 gotten a lot of really good positive feedback from DG  
10 market participants about how beneficial those tools are  
11 to help them locate in the most -- most advantageous  
12 areas.

13 Q. So have you seen different outcomes because  
14 of it?

15 Did it reduce the amount of interconnection  
16 costs that bidders faced?

17 A. (Witness Mallard) I think it -- I think, yes.  
18 And, just as importantly, it -- it made the projects more  
19 successful. The number of projects that were -- were not  
20 successful drastically reduced because bidders were able  
21 to get this knowledge ahead of time and use that to inform  
22 siting decisions and maybe avoid some locations. Whereas,  
23 in the past without that information, they might have  
24 submitted a bid that would have been unsuccessful. So I  
25 have a much higher success rate with the use of these

1 tools.

2 Q. Glad to hear that.

3 I guess, sort of quickly, yesterday this  
4 wasn't clear to me. In the, like, second phase of the  
5 subscription process and the first phase, you say there's  
6 a \$5,000 fee in collateral for the utility-scale. And I'm  
7 asking: Do the fees and/or the collateral requirements  
8 apply to residential subscriptions?

9 A. (Witness Mallard) They wouldn't. So just  
10 to -- let's parse it out. For utility-scale CARES, it has  
11 been a \$5,000 application fee. We're not proposing to  
12 change that. Although, feedback from the marketplace and  
13 from participants could change that eventually.

14 For DG subscriptions, we haven't identified  
15 the amount yet, but it would be somewhat less than 5,000.  
16 For residential customers, it likely wouldn't look  
17 anything like that. It would likely be something more  
18 akin to a fee that aligns with residential commitment and  
19 the value that they would get from a subscription that  
20 would likely be from a 1 or 2kW watt, that type of thing.  
21 So we haven't developed that yet. It would be a much  
22 lower amount.

23 And just one more comment on the collateral.  
24 The collateral, if that wasn't clear, that will only be  
25 required in phase three projects if PPAs are out of

1 market. So if we're able to get PPAs to bid in down to  
2 that market price, that total net benefit, there wouldn't  
3 be any need for collateral.

4 But if we're going to enter into a PPA that's  
5 higher than that market price and we're counting on the  
6 customer subscription to offset that over time, those  
7 things could have different terms, they could have  
8 different conditions. We want to make sure that if the  
9 customer in some way defaults or doesn't live up to their  
10 end of the agreement that we've got that money on hand to  
11 draw on and protect other customers from any -- any  
12 negative economic impacts.

13 Q. So there will be a fee for residential  
14 customers to subscribe. Could you ballpark that?

15 A. (Witness Mallard) I really couldn't at this  
16 point. I think we'll take a lot of things into account  
17 this week as we consider that. We'll think about our  
18 current community solar program.

19 We're definitely studying other community  
20 solar subscription-type programs in other places. And  
21 we'll take feedback from all stakeholders, both developers  
22 and potential customers, as well. So more to come there.

23 Q. You don't ask the Commission to make any  
24 changes to the existing community solar programs in this  
25 IRP?

1           A.       (Witness Mallard) That's right.

2           Q.       And I want to follow up on Commissioner  
3 Echols' question from yesterday. The income-qualified  
4 community solar program that was approved three years  
5 ago --

6           A.       (Witness Mallard) Yes.

7           Q.       -- where Georgia Power would find a corporate  
8 sponsor to pay part of the subscription so that the  
9 customer would see bill savings, you said yesterday that  
10 you still haven't found any sponsors, but that you have  
11 had and are having conversations -- conversations with  
12 prospective sponsors.

13                   What -- what feedback have you gotten?

14           A.       (Witness Mallard) Generally the feedback is  
15 that either -- that sort of the connection, the  
16 sponsorship value of being able to point to additional  
17 carbon savings or rent procurements, that type of thing,  
18 is maybe not close enough. And then, also, the economic  
19 proposition, the amount of the buydown in relation to  
20 value of the reqs and the good-will that would be earned  
21 from a sponsorship.

22           Q.       Are those the only two reasons that that  
23 concept is turned away?

24           A.       (Witness Mallard) I don't -- I wouldn't say  
25 that's an exhaustive list, but those are the ones that

1       come to mind.

2               Q.       Have you incorporated that feedback into the  
3       new program proposal?

4               A.       (Witness Mallard) So a couple of ways. That  
5       -- the requirement for an income-qualified sponsor, a  
6       buydown, is not dissimilar to the ways that we're looking  
7       at providing opportunities for third-party funding, both  
8       from the solar-plus-storage program, but also the new  
9       residential distributed community solar program.

10              We're going to make sure the program design  
11       creates opportunities for third parties, whether that be  
12       corporate sponsors, whether that be access to funding from  
13       federal government or other places. We're going to ensure  
14       that the program design allows for that.

15              Furthermore, the sort of value proposition to  
16       the customers is going to look a little bit different.  
17       The customers willing to lock into a longer agreement,  
18       then there's a chance that the cost of that subscription  
19       -- the net cost of that subscription decreases over time  
20       and creates an opportunity for -- for more access. It  
21       reduces the total out-of-pocket costs for customers if the  
22       rewarding cost could go up over the term of the  
23       subscription.

24              Q.       You say on page 99 of the IRP that you're  
25       exploring opportunities to partner with third parties to

1     reduce subscription prices for lower-income customers.

2     How is that different from the existing low-income -- or  
3     income-qualified community solar program that has not  
4     found any sponsors?

5             A.       (Witness Mallard) Yeah.   So there are a  
6     couple of differences.   Primarily the new program is going  
7     to be supplied from new resources and new resources that  
8     are most likely going to be owned by third parties.   And  
9     so these would be incremental or additional megawatts  
10    added to the grid.   That creates a little more value for  
11    potential sponsors.

12            This will be new projects added to the --  
13    added to the grid.   And if we can create a sponsorship, it  
14    creates a lot of demand for income-qualified customers.  
15    There's the ability to not only fill up the residential  
16    community solar allocation of 10 megawatts per RFP, but  
17    even grow beyond that.

18            We envision if the -- there's enough demand,  
19    there could be a sort of self-serving continuous process  
20    where we continue to increase the amount of megawatts if  
21    demand does increase.   That would allow third-party  
22    sponsorship the ability to help drive enrollment and drive  
23    additional renewable energy added to the grid.   Again,  
24    that's -- the additionality concept, making sure that  
25    money that they're spending creates new resources, is very



1 important to a lot of these corporate sponsors.

2 Q. I want to go back to page -- well, I guess  
3 we're on page 99 of the IRP. Up at the top, though, where  
4 you talk about the subscription and bill credit for the  
5 proposed community solar.

6 A. (Witness Mallard) Yes.

7 Q. Ms. Brown asked you to translate it yesterday  
8 and I'm going to ask you to translate it again today.

9 A. (Witness Mallard) Okay.

10 Q. Because I still don't understand --

11 A. (Witness Mallard) Okay.

12 Q. -- what a credit calculated from the annual  
13 average value of the distributed generation facility's  
14 production based on the company's hourly operating costs  
15 per kilowatt hour means.

16 A. (Witness Mallard) I will make it as simple as  
17 I can. It's almost exactly the way the RNR annual amount  
18 is calculated today. RNR is calculated today based on all  
19 8,760 hours of the year and a projected solar load shape  
20 against the projected system cost.

21 So instead of having to calculate that every  
22 hour on actual costs, like we do for utility-scale CARES,  
23 what we would propose to do here is do a calculation  
24 similar to RNR. It might be a little different, but it  
25 could be some differences in the components of the

1 calculation.

2 We're going to estimate that once a year,  
3 come up with a fixed amount, and then that way that single  
4 amount would represent the average value over all solar  
5 hours for the whole year. So very similar to the way that  
6 the RNR calculation works today. We don't measure RNR  
7 customers hourly. We measure their kilowatt-hours and pay  
8 them on an average of data once a year.

9 Q. What different components are you referring  
10 to?

11 A. (Witness Mallard) It's hard to say at this  
12 point. RNR has a very specific required formula that  
13 includes some components beyond the rewarded energy costs.  
14 I would -- I will tell you that most of the value there is  
15 avoided energy cost. But some of the other components  
16 could be different, could be -- have more or less  
17 components added, depending on the final design of the  
18 program, and ultimately depending on how that payment  
19 structure is accrued.

20 Q. You said yesterday it might be on a seasonal  
21 basis or an annual basis. Why not monthly if that's the  
22 billing cycle and if this is a community solar program  
23 where folks might want to subscribe, dip out?

24 A. (Witness Mallard) Yeah. It's just weighing  
25 the pros and cons. The more you update it, the more

1 administratively burdensome, the more costly, the more --  
2 the more it changes for customers. I mean, some customers  
3 would appreciate knowing what that amount is for a year  
4 and having that locked in. Other customers might  
5 appreciate seeing the seasonal variability.

6 But, just as an example, a credit could be  
7 significantly more in July with a lot more solar resource  
8 than it would be in a December or a January when there's  
9 not as much energy produced from a solar facility. So the  
10 customer would see a lot more variability if we updated  
11 it.

12 A. (Witness Beppler) And I will just add on the  
13 subject of monthly potential, even though customers  
14 receive monthly billing cycles, those don't align for all  
15 customers. So it's a sort of revolving monthly cycle. It  
16 doesn't necessarily align with the calendar month. And so  
17 that would add a significant amount of complexity to  
18 implementation.

19 Q. Okay. I suppose I thought it was for their  
20 billing month.

21 You mentioned avoided costs going up. And  
22 then yesterday you said that because of that there might  
23 be a threshold or a cap on the credits that subscribers  
24 could see here.

25 Could you explain that a little more?

1           A.       (Witness Mallard) Yeah. I think that would  
2 likely be applied to the utility-scale and distributed  
3 generation subscriptions more so than the residential.  
4 But we haven't -- we haven't completed that analysis or  
5 made that final suggestion.

6                   The point of instituting protection against  
7 cost shifting is if avoided costs go up more than what we  
8 have projected, there is a risk that subscribers --  
9 subscriber's credit could be more than the subscription  
10 price that they're paying. And in that way that shortfall  
11 could flow through the fuel bucket and impact  
12 nonparticipating customers.

13                   So what we're proposing here, and, again,  
14 just in concept, is a cap or a collar or some term limits.  
15 We've got a few -- a few ideas that we're working on that  
16 would be fair and reasonable improvements to the  
17 subscription methodology that would protect  
18 nonparticipating customers.

19           A.       (Witness Beppler) And, Commissioners, I think  
20 the intent there with that design element is consistent  
21 with many of our programs to share the benefits between  
22 participating and nonparticipating customers.

23           Q.       Okay. I -- maybe you both can help me  
24 reconcile two things that you just said. Because what I  
25 heard Mr. Mallard say is that there's a risk the credit

1 could be more than the subscription, which I hear as bill  
2 savings for the subscriber. And, Mr. Beppler, you said  
3 sharing those things.

4 So how do y'all reconcile those two?

5 A. (Witness Beppler) Yes. So I think, as  
6 Witness Mallard described, the original design is based on  
7 an avoided cost projection. To the extent that that  
8 changes, the relative value between the credit and the  
9 subscription price will also change.

10 To the extent that there are more benefits  
11 that accrue, we would want some of those to be recognized  
12 for participating customers. We also want  
13 nonparticipating customers to share in the savings of  
14 these resources being procured.

15 A. (Witness Mallard) And, again, I'd just add  
16 that that likely comes into play on longer-term  
17 agreements. Residential customer I would expect a 5- or a  
18 10-year term would be what would be typical. It would be  
19 unlikely to see significant change in the avoided costs  
20 compared to projections.

21 What we're looking at are some long-term  
22 projections. We offer a subscription through CARES  
23 anywhere from 10 to 30 years. So if a customer subscribes  
24 for a really long term, there's a chance that in the out  
25 years, especially the credit that they're getting, is

1 significantly more than the subscription price that  
2 they're paying. That's the -- that's the sort of  
3 potential cost shift that we want to make sure that we  
4 address through a subscription change.

5 Q. So the new community solar program that  
6 you're proposing could result in bill savings for the  
7 subscriber?

8 A. (Witness Mallard) I think it could, yes.  
9 Depends on -- depends on the trajectory of the avoided  
10 cost and the price of the solar that's procured. The  
11 price of the solar that's procured through the competitive  
12 RFP is the basis of the subscription price. And then the  
13 avoided costs are what they are as the costs change.

14 Q. You described the new program yesterday as  
15 providing optionality, like an additional choice in  
16 reference to the current community solar program?

17 A. (Witness Mallard) Yes.

18 Q. Which you don't recommend the Commission  
19 modify in this docket?

20 A. (Witness Mallard) That's correct.

21 Q. Why would anybody subscribe to the current  
22 premium program where they're paying more if they could  
23 subscribe to this program where they might see savings?

24 A. (Witness Mallard) I think customers have a  
25 lot of different drivers for what convinces them to

1 participate in a renewable energy program. The current  
2 community solar program is meant to provide optionality  
3 for customers who want to support solar, who want to  
4 access the benefits of solar, and get those real energy  
5 credits retired on their behalf.

6 It provides that optionality. It's from  
7 existing resources around the state. There's three  
8 facilities, 8 megawatts. It's available right now and  
9 today.

10 Once the other alternative, if approved, gets  
11 in place, I think the company would take into account:  
12 Are both options needed? Do they serve any different  
13 customer needs? Would there be ability to sunset or  
14 modify the existing program?

15 We just don't know that yet. And it's going  
16 to be a few years before we do. If the -- if these  
17 programs are approved, the next DG solicitation would be  
18 in 2026 and 2027 with resources not coming online until  
19 '27-'28 time frame. So we've still got awhile before  
20 subscriptions would be available through the new program  
21 and approved.

22 Q. Okay. It's Georgia Power's position that the  
23 renewable cost-benefit framework, the RCB framework,  
24 establishes the value of energy that renewable resources  
25 deliver to the grid?

1           A.       (Witness Mallard) Yes.

2           Q.       In RCB framework you look at the costs and  
3 the benefits of solar resources?

4           A.       (Witness Mallard) Yes.

5           Q.       Including distributed generation resources,  
6 like those in the community solar program; right?

7           A.       (Witness Mallard) Yes.

8           Q.       In the RCB framework, whether we agree on  
9 the, like, specifics of it or not, has found every time  
10 that solar resources provide a net benefit?

11          A.       (Witness Mallard) Depends on the price you  
12 pay. You can't calculate whether there's a benefit or not  
13 until you know what you're paying for that resource. And  
14 so a resource that's procured competitively when compared  
15 against an NGO avoided cost or different scenarios of  
16 avoided costs, that's what informs whether a benefit is  
17 created.

18          Q.       So that 3- to 4-cent number, how does that  
19 fit with your statement?

20          A.       (Witness Mallard) Yes. If we can procure  
21 solar at that number, then benefits are created.

22          Q.       Okay. Why can't Georgia Power offer a  
23 community solar program where the subscribers pay the  
24 costs that we just talked about and those same subscribers  
25 see the net benefits as bill savings?



1           A.       (Witness Mallard) That's exactly how the new  
2 distributed generation community solar program is  
3 designed. That's exactly what it's intended to do.  
4 Procure solar at the least possible cost, allow the  
5 subscriber to cover the cost of that procurement, and then  
6 get a benefit based on that renewable cost benefit  
7 framework calculated avoided cost. That is the essence of  
8 the proposed program.

9           Q.       The essence. But are you saying that the  
10 proposed program will result in bill savings?

11          A.       (Witness Mallard) It depends on the avoided  
12 cost. It depends on the relationship of the cost of the  
13 solar. And so utility-scale solar -- for a long time we  
14 were procuring at the 3-cent range, maybe 4-cent range.  
15 Inflationary pressures are acting on everything these  
16 days, including utility-scale solar.

17                 Same with DG solar. We've seen DG solar  
18 procured in the 5- to 6-cent range, but time will tell and  
19 our RFPs will tell exactly what the market can deliver.  
20 But the relationship between what solar can be procured  
21 for and what the value is, as calculated by that avoided  
22 cost, that's the resulting cost or benefit that customers  
23 can access -- get access to the renewable energy credit  
24 and the potential savings, depending on the relationship  
25 of those two things.

1           Q.       Staying with the RCB framework, there's a  
2 category now that says: Energy only solar resources,  
3 which you're treating differently based on a quote:  
4 Obligation to perform.

5                    So you're saying: We're going to pay energy  
6 only solar resources less because they don't have an  
7 obligation to perform?

8           A.       (Witness Mallard) Can you point me to where  
9 you're referencing that?

10                   I'm not on the same page.

11          Q.       This is the RCB framework at page 2.

12          A.       (Witness Mallard) In the main document?

13          Q.       It's in the Technical Appendix.

14          A.       (Witness Mallard) Yeah. I'm sorry. I don't  
15 have a copy of that with me.

16          Q.       Are you aware of the new energy only  
17 category?

18          A.       (Witness Mallard) Yes, I am. I'm generally  
19 familiar.

20          Q.       You define the obligation to perform there as  
21 having specific performance obligations and remedies for  
22 non-performance?

23          A.       (Witness Mallard) Yes. Basically a solar  
24 resource either under company ownership or control, or  
25 procured through a PPA, that has appropriate remedies that

1 ensure the performance of that -- of that solar resource.

2 Q. Do current solar PPA contracts meet those  
3 requirements?

4 A. (Witness Mallard) Yes. Yes, they do.

5 Q. All of them?

6 A. (Witness Mallard) Well, I can't say all of  
7 them. Over time we continue to involve -- evolve our  
8 procurements. And so older PPAs might not have quite the  
9 same peak in them that the new ones do. But I can confirm  
10 to you that utility-scale, RFP procured solar, DG RFP  
11 procured solar, all of those PPAs have appropriate  
12 remedies and requirements for the counterparts to perform.

13 Q. And going forward, as well?

14 A. (Witness Mallard) Yes.

15 Q. What about the -- what we call the virtual  
16 power plant program; are those going to get the capacity  
17 credit, as well?

18 A. (Witness Beppler) Can you be specific by what  
19 you mean with virtual power plant program? I don't think  
20 we've referred to anything as virtual power plant program.

21 Q. The residential and commercial solar and  
22 storage pilot.

23 A. (Witness Beppler) Small commercial, yes.  
24 Solar-plus-storage.

25 And repeat your question on -- the question.

1           Q.     Are those considered energy only or are they  
2 considered a combination?

3           A.     (Witness Beppler) By definition, those have  
4 storage associated with them, which would be beyond just  
5 energy.

6           A.     (Witness Mallard) We do anticipate the  
7 contract language to have performance requirements and for  
8 appropriate remedies if the projects don't perform.

9           Q.     Can you give me an example of when a solar  
10 resource on the system now has failed to perform?

11          A.     (Witness Mallard) Yeah. I can't give you  
12 specifics, but, Commissioners, my team is responsible for  
13 the administration of all of the company's power purchase  
14 agreements. On a monthly basis a significant number of  
15 these counterparts fail to meet their performance  
16 requirements.

17                   We work really closely with these  
18 counterparts to come up with solutions. There's any  
19 number of things that can go wrong. We've got inverters  
20 that go out. We've got tracking mechanisms that fail to  
21 perform, damage from storms.

22                   There's a never ending -- I think we are now  
23 up to nearly 600 DG PPAs these days to administer and a  
24 pretty continuous stream of projects that for one reason  
25 or another fall out of compliance.

1           We work with them to either get them on a  
2 different program, move them off to another program that  
3 better meets their availability, or work with them as they  
4 work on remedies to be able to bring their project back in  
5 compliance and produce the amount of energy that we were  
6 counting on when we chose those projects through a  
7 competitive RFP.

8           VICE-CHAIRMAN ECHOLS: Are those developers  
9 paying liquidated damages when they don't comply?

10           Is that something y'all are enforcing or not  
11 enforcing?

12           MR. MALLARD: No. We are. There's some -- a  
13 little bit of a grace period. In fact, one year  
14 out of compliance and you get a warning letter. On  
15 the second year, then we trigger some action.

16           We're working on something right now that  
17 will be before the Commission pretty soon, which  
18 will be an alternative. There's a lot of these  
19 older PPAs way back from -- gosh, I sound old --  
20 10 years ago now where those projects are getting  
21 some age on them.

22           Some of them are owned by counterparts that  
23 are not used to being in the solar business, just  
24 somebody who might own one at their home or  
25 business, not a professional long-term solar owner.

1           We're working really hard to come up with a  
2           creative solution so that we can keep them under  
3           contract and keep that energy and those reqs coming  
4           to us, but that we pay -- we pay them a different  
5           price, a discounted price, based on the production  
6           that they're actually able to achieve.

7           VICE-CHAIRMAN ECHOLS: Don't they typically  
8           overbuild a little bit, though, to compensate for  
9           that?

10          MR. MALLARD: I think typically they do. The  
11          very old PPAs, Commissioner, just have an annual  
12          capacity factor that they have to meet and they  
13          have to stay within that range. The newer ones,  
14          they give us an annual delivery percentage. So  
15          they estimate what they're going to give, then the  
16          concept is the same.

17          They have kind of a dead ban if they stay  
18          between 90 and 110 percent. The payments go as  
19          contracted. It's the ones that fall below  
20          90 percent and then some of the PPAs have default  
21          provisions if they fall below a certain production  
22          below that.

23          BY MR. SHERRIER:

24          Q.       My last question for you. Has Georgia Power  
25          reconsidered whether to include fuel as a hedge?

1                   Capture the monetary value of the fact that  
2 generation from renewable resources lowers the cost of  
3 fuel. Have you reconsidered whether to include that as a  
4 benefits in the RCB framework?

5           A.       (Witness Mallard) You know, we have. But the  
6 RCB gets teed up and evaluated every RFP and approved.  
7 Fuel hedging is something that was talked about last cycle  
8 or a couple of cycles ago.

9                   It's our testimony that the RCB is accurately  
10 calculated. The way that we project those avoided energy  
11 savings and the other components accurately reflects the  
12 benefits that solar provides to the system. So, no, we  
13 haven't -- haven't proposed any changes related to the  
14 fuel hedge.

15           Q.       Okay. I would like to turn to demand-side  
16 management and thank Georgia Power. We are very glad to  
17 see the savings anticipated from the Vogtle settlement in  
18 the proposed case. Thank you.

19                   On page 45 of the IRP, it says: The level of  
20 energy efficiency in the proposed case was set to  
21 0.75 percent of the total energy savings. The Vogtle  
22 settlement set 0.75 as a floor.

23                   Did Georgia Power evaluate whether a higher  
24 amount of savings would also be cost-effective?

25           A.       (Witness Goff) To achieve .75 annual budgets

1 it requires annual budgets of 570 to \$580 million per year  
2 and it requires TRC waivers on four of our programs.

3 The incentive levels included in that budget  
4 are based on Georgia Power's technical potential study.  
5 And so to go above .75 percent would make an expensive  
6 case even more expensive. So for those reasons we stuck  
7 with the 741 gigawatt-hour per year target.

8 Q. Got it. But yesterday y'all pushed back on  
9 the comparison to other utilities that achieve higher  
10 savings saying that there were different factors in most  
11 states.

12 What factors should be considered when  
13 comparing states' DSM success?

14 A. (Witness Goff) I don't know that it is  
15 appropriate to compare across states. Again, for the  
16 reasons that we laid out before. Each state may have  
17 different priorities, legislative environments, you know.  
18 There's just so many different factors.

19 It is important to compare best practices.  
20 That's one reason that we engage with the industry. We  
21 employ a third-party design consultant who has expertise  
22 across the industry. But when we bring plans forward, we  
23 do it through the Commission's DSM program planning  
24 process and what works within Georgia based on our history  
25 in implementing these programs for many years.



1           Q.     One of the things that you said yesterday  
2 about maturity of the program, those aren't relevant to  
3 comparisons?

4           A.     (Witness Goff) Yes. So we have been at this,  
5 like I mentioned yesterday, since 2011. We have delivered  
6 4,700 gigawatt-hours of savings since that time. Our  
7 programs are mature.

8                     We have many years of implementing these  
9 programs with a high degree of customer satisfaction. We  
10 don't always know where other utilities are in that  
11 maturity model.

12          Q.     Right. That's what I'm asking about. But if  
13 you did know that, could you then factor that into a  
14 comparison?

15          A.     (Witness Goff) No. And, again, as  
16 Commissioner Pridemore mentioned yesterday, there could be  
17 other funding that's being applied from a state level or  
18 other reasons. I mean, there's just so many different  
19 factors that when you go state by state it -- it just  
20 doesn't make the comparison an apples-to-apples  
21 comparison.

22          Q.     What utilities does Georgia Power see as its  
23 peers in the demand-side management arena?

24          A.     (Witness Phillips) I'm not aware of any  
25 specific utilities that we consider as a peer in the DSM

1 space. I mean, we -- we developed the proposed case in  
2 accordance with the Commission-approved DSM program  
3 planning approach.

4 We did that for this IRP and we've done that  
5 ever since 2010 when the DSM program planning approach was  
6 implemented. And so we develop our case given the  
7 guidelines set forth by this Commission without a lot of  
8 other review or research regarding other utilities or  
9 states.

10 A. (Witness Goff) But just to reiterate, it's  
11 informed by historical performance, evaluation results,  
12 the DSM working group process, Commission staff,  
13 third-party design consultant, implementation feedback  
14 from working with customers.

15 So we do incorporate a lot of feedback. We  
16 engage with the industry. But there's just so many  
17 factors when you try to compare apples to apples, savings  
18 and budgets, that it doesn't make that appropriate.

19 Q. Thank you.

20 COMMISSIONER PRIDEMORE: Isn't weather a big  
21 consideration in that, as well?

22 MS. GOFF: Yes.

23 COMMISSIONER PRIDEMORE: I mean, on DSM I  
24 would think that it would be.

25 MS. GOFF: Weather, yes.

1                   COMMISSIONER PRIDEMORE: You can't compare to  
2 North Carolina's climate. Temperature is  
3 different. You can't compare it to Florida.

4                   So you've got similar utilities that are  
5 integrated and best run utilities. You have a  
6 weather balance in there that, again, it's not an  
7 apples to oranges -- it is an apples to oranges.

8                   MS. GOFF: Saturation of different home  
9 types, that could be a different -- another factor  
10 that varies across utilities.

11 BY MR. SHERRIER:

12                  Q. I want to ask about the incentives in the  
13 proposed plan and how you got there. You said that it was  
14 based on the TEAPOT study. Please stop me when I get it  
15 wrong here; okay?

16                   So the TEAPOT study, it looks at the measures  
17 that are out there, like ground source, heat pumps, and it  
18 looks at which measures are economic. And then it narrows  
19 those down to what is achievable in Georgia.

20                   To determine whether it's achievable, the  
21 TEAPOT study looks at different incentive levels; the  
22 25 percent, 50, 75, and 100. So to hear you picked  
23 100 percent for the incentive levels for all the measures  
24 because of that?

25                  A. (Witness Phillips) So we chose 100 percent

1 incentive level to help reach the .75 percent of retail  
2 sales for the proposed case. Specifically when looking at  
3 the most recent TEAPOT report, for the year 2025, in order  
4 to achieve .7 percent of sales in that year, it would have  
5 required a 100 percent incentive level.

6 A. (Witness Beppler) And I'd just like to add,  
7 on the TEAPOT study you started with the economic  
8 screening. There's a stage before that, which is the  
9 technical potential. So that's the first level of the  
10 screening, which then goes into the economic potential and  
11 then the achievable.

12 Q. And you didn't stop me because it started  
13 after that.

14 So you just picked 100 percent because of  
15 that and put it on to all of the programs and measures  
16 here?

17 A. (Witness Phillips) Well, I think that was one  
18 data point that the TEAPOT helped confirm. And then, as  
19 Witness Goff said, working closely with our consultant  
20 AEG, working with our program managers who have  
21 administered these programs for a number of years, working  
22 with our trade allies. Many of those factors went into  
23 consideration when setting the budgets for this proposed  
24 case.

25 Q. So some measure of judgment. Was that, like,

1 measure by program?

2 A. (Witness Phillips) I don't know that it was  
3 necessarily by measure. Because when we work with our  
4 design consultant and when we work with our program  
5 managers, what we're trying to do is take the individual  
6 measures and package them into a program that we can then  
7 present to our customers.

8 Before we do that, we present the programs to  
9 this Commission for review and approval. And so there is  
10 the -- there's the research, there's the analysis, there's  
11 also an understanding of the market in Georgia. Because  
12 what we're trying to do is package programs that we can  
13 then present to our customers, both the residential and  
14 commercial, such that they can apply within their home,  
15 within their business.

16 And at the same time, package the measures  
17 and the programs so that we're trying to minimize the  
18 administrative costs. And so we go to market with as few  
19 programs as we can, but at the same being flexible and  
20 offering a number of solutions to our customers, both  
21 residential and commercial.

22 A. (Witness Goff) And I didn't hear when  
23 Mr. Phillips initially said judgment. You said judgment.  
24 But this is, again, a very collaborative process. The DSM  
25 working group process is very collaborative.

1           As we go to an RFP to select an implementer,  
2 all those design plans are shared with staff prior to us  
3 going and implementing to get feedback from them. And so  
4 it is judgment, but it's not just the company's judgment.  
5 It's the culmination of the entire process.

6           Q.     Okay. On your testimony on page 13, lines 24  
7 to 28, you say the company doesn't support the inclusion  
8 of an industrial DSM program because industrial customers  
9 generally adopt energy efficiency on their own.

10           Do you recall in the 2024 TEAPOT study we  
11 were just talking about what percent of achievable energy  
12 savings were industrial?

13           A.     (Witness Phillips) Right offhand I don't  
14 know. I know that information is included in the TEAPOT  
15 study. But you're correct. There are no industrial  
16 programs in the company's proposed case.

17           As noted, we know a number of our industrial  
18 customers are installing energy-efficiency measures in  
19 their facilities without having a customer-funded,  
20 company-sponsored energy-efficiency program. We engage  
21 with these -- our industrial customers every day through  
22 our managed accounts organization, our external affairs  
23 organization.

24           We are plugged into them, to their business.  
25 We have a significant impact on their business for a

1 reliability standpoint. And so we have strong  
2 relationships with these customers. We know that they are  
3 making these improvements. And so they're doing that  
4 without having incentives offered by the company that are  
5 also funded by the customers.

6 We also consider when developing the proposed  
7 case past guidance from this Commission. And in previous  
8 IRPs, this Commission has approved orders that did not  
9 include industrial programs; only residential and  
10 commercial. So that's also considered in developing the  
11 proposed case.

12 Q. But is it fair to say that based on  
13 Commission market research, TEAPOT study, that there is  
14 cost-effective and achievable energy and demand savings in  
15 the industrial sector?

16 A. (Witness Phillips) Yes, that is accurate.  
17 And I think that's not only accurate for the most recent  
18 TEAPOT study, previous TEAPOT studies have also quantified  
19 the potential for energy efficiency in industrial  
20 customer's facilities.

21 A. (Witness Goff) And I --

22 A. (Witness Beppler) Witness Phillips mentioned  
23 this, but these are large, sophisticated customers whose  
24 energy usage has a significant impact on their bottom  
25 line. To the extent that they identify cost-effective

1 improvements for their own individual businesses, they are  
2 continuing to make those investments outside of a  
3 utility-sponsored program?

4 A. (Witness Goff) Right. So it's not that  
5 anybody is arguing that there's potential in the  
6 industrial space. It's that there's not a need for a  
7 utility-funded program in order to incent that behavior.

8 Q. Y'all mentioned the program planning approach  
9 to develop the DSM cases; right?

10 But this plan is different; right? It  
11 includes a fourth case that you're calling it a capacity  
12 and affordability case?

13 A. (Witness Goff) It does. And this IRP,  
14 consistent with past IRPs, there are various options for  
15 the Commission to consider. And so in the company's  
16 application we have included our proposed case, the  
17 supply-side options, the advocacy case, and then the  
18 capacity and affordability case.

19 Q. Has Georgia Power filed four cases in any of  
20 the last five IRPs?

21 A. (Witness Phillips) Not that I'm aware of. We  
22 have filed additional sensitivities to provide the  
23 Commission guidance on how economics could change,  
24 depending upon whether you're evaluating it in an MG0  
25 or -- in the previous IRP, if we evaluated economics in an



1 MG0 and MG20.

2 In this case -- in this IRP, we're evaluating  
3 economics on an MG0 and a 111 MG0. And so we have  
4 provided additional sensitivities, but I'm not aware that  
5 we have provided or filed four cases previously.

6 A. (Witness Goff) But it's not unusual for the  
7 Commission to have options to consider.

8 Q. When did you inform staff that you were  
9 filing a fourth case?

10 A. (Witness Phillips) I don't recall the date.

11 Q. Why didn't you inform the demand-side  
12 management working group that you were developing a fourth  
13 case?

14 A. (Witness Goff) So the capacity and  
15 affordability case is a sensitivity. It's not a brand-new  
16 case. It's a subset of programs that are in the company's  
17 proposed case.

18 So just to kind of level set, in the  
19 company's proposed case we're targeting 741 gigawatt-hours  
20 per year at annual budgets of 570 to \$580 million. That  
21 compares to \$90 million in our current plans.

22 That's a lot to ask. And so the capacity and  
23 affordability case is a subset of programs. It includes  
24 programs that benefit -- that generate the most capacity  
25 benefit and target customers in the most need. It has

1 annual budgets of \$140 million per year. So it's just a  
2 subset of programs.

3 The only unique elements to that case, as  
4 compared to the proposed case, are the inclusion of a  
5 small team of energy auditors. So there's some funding  
6 set aside, a little over \$1 million per year, for a small  
7 team of energy auditors, and a little bit of funding -- a  
8 little less than \$1 million a year for an online  
9 residential audit tool.

10 And so the inclusion of those two elements  
11 are the only thing that is unique, in terms of the -- the  
12 cases. It's just that there's a smaller subset of  
13 programs that are included in that case, as compared to  
14 the proposed case.

15 Q. I suppose I will ask again. Why didn't you  
16 inform the demand-side management working group that you  
17 were developing a fourth case?

18 A. (Witness Phillips) I was not aware that the  
19 DSM working group had not been informed. I know staff had  
20 been informed.

21 But we did work closely with the DSM working  
22 group on the proposed case, as well as the efficacy case.  
23 And so we did incorporate some of the feedback in those  
24 cases. But I can't speak to -- to when the capacity and  
25 affordability case was communicated.

1           A.       (Witness Goff) But, again, it's just an  
2 option. The Commission has lots of options. That's not  
3 unusual for any IRP. It is a subset of programs. It's  
4 not a brand-new case.

5                   And so all of the information is very  
6 consistent with what is in the proposed case. It just is  
7 a smaller subset with smaller annual budgets.

8           Q.       When did you begin developing this case?

9           A.       (Witness Phillips) I don't know when  
10 specifically we started developing the capacity and  
11 affordability case. And as Ms. Goff said, it's a subset  
12 of the proposed case and incorporates the same programs,  
13 just at a smaller scale. I don't know the date when that  
14 began -- the analysis began for that.

15          Q.       Was it in 2024?

16          A.       (Witness Phillips) Yes. I would think so.  
17 It would have been in 2024.

18          Q.       That you began developing the forecast?

19          A.       (Witness Phillips) Yeah. I don't know  
20 specifically when. But in late 2024 I know we updated the  
21 economics for all of the measures that were included in  
22 the proposed case. That was done in December.

23                   And so the -- as I said, the capacity and  
24 affordability case is a subset of the proposed case. And  
25 we were still finalizing and developing the proposed case

1 as late as mid December.

2 Q. Now, shifting gears, when you predict savings  
3 in the proposed case, say you do efficiency upgrades at an  
4 old house, how do you measure that?

5 Like, the old house itself, that one got this  
6 many kilowatt-hours saved, or do you compare it to some  
7 other baseline?

8 A. (Witness Goff) Are you speaking of a specific  
9 program within the case?

10 Q. Generally. That was just an example.

11 A. (Witness Goff) Okay. So, in general, we  
12 would use evaluator results, if we had them. Or to the  
13 extent we didn't have evaluator results, there would be  
14 some kind of, like, engineered model calculation to come  
15 up with those savings. And each program may have  
16 different requirements, you know, that -- that savings are  
17 generated in order to receive those incentives.

18 A. (Witness Beppler) And I can expand a little  
19 bit on the modeling front. So as Commissioner Pridemore  
20 mentioned earlier, some energy-efficiency measures are  
21 particularly weather sensitive. And those are the subset  
22 that we tend to evaluate using a program called  
23 OpenStudio, which is a Department of Energy created  
24 modeling framework that allows us to simulate the impacts  
25 of energy efficiency when you add an energy-efficiency

1 measure to a home or business. And so that informs some  
2 of the savings estimates for those weather-sensitive  
3 measures.

4 Q. So do you compare it to, like, the code as  
5 the baseline or do you compare it to, like, the individual  
6 house you just did the project on?

7 A. (Witness Beppler) We have a set of models  
8 that serve as a baseline based on what is the current code  
9 and standard for both existing construction and then  
10 separately for new construction.

11 A. (Witness Phillips) And those are based upon  
12 representative businesses, as well as residences, both for  
13 single-family and multifamily. And so it's not specific  
14 to any one location or home. It's modeled against a  
15 representative facility or building.

16 Q. So there could be more savings not captured  
17 in the model here if you do a program at a house that's  
18 not up to code?

19 A. (Witness Beppler) There could also be less  
20 savings if you had a particularly efficient home that you  
21 were looking at. So I would say that there is variability  
22 on both sides. What we do is develop representative  
23 models and we do baseline those to the territory to ensure  
24 that the model results are giving us profiles and annual  
25 energy usage that align with the usage of our customers.

1           A.       (Witness Goff) And, again, if we have  
2 evaluator results, then we will use those.

3           Q.       Do you think measuring from a code captures  
4 the above and below; is that why you use it?

5           A.       (Witness Beppler) I think that represents an  
6 accurate baseline to establish the savings potential of  
7 measures that are above the sort of code default.

8                   So one of the things that we've talked about,  
9 Commissioners, previously is that we have seen  
10 transformation in the market where some of these  
11 energy-efficiency savings potential are reduced because  
12 the sort of minimum or baseline equipment has gotten more  
13 efficient over time. And so establishing those reference  
14 points as the standard efficiency options is appropriate  
15 to measure the savings of those energy-efficient measures.

16          Q.       Okay. Switching again, looking at the  
17 proposed commercial custom program, if all the -- so this  
18 is where you go to, like, a commercial business and you  
19 work with them to make specific changes in their property.  
20 Shouldn't that, by definition, be cost-effective?

21                   Why does it need a waiver?

22          A.       (Witness Goff) For the commercial custom  
23 program?

24          Q.       Yeah.

25          A.       (Witness Goff) So if that program -- so the

1 customer -- just backing up history. The commercial  
2 prescriptive program is almost like a menu of options.  
3 It's if you install this measure, you get a certain  
4 percent -- or certain incentive. For the commercial  
5 custom program, that's for a larger project, more  
6 complicated projects, where customers may want to go  
7 deeper, have something specific to their facility. And so  
8 the program has been operating under the same incentives  
9 for awhile now. And so we have expanded the caps  
10 associated with that program in order to generate larger  
11 projects to get larger savings and to really incent the  
12 customers to be able to go deeper if they're able.

13 And, again, to get to 741 gigawatt-hours, the  
14 expansion of those caps helps us get there. So in order  
15 to achieve that level of savings -- we've never achieved  
16 that level before. We are doing things different than we  
17 have in the past in order to reach that target.

18 Q. When was Georgia Power's most recent  
19 commercial saturation study?

20 A. (Witness Phillips) I don't recall when the  
21 commercial -- the previous commercial saturation study was  
22 done. I believe we filed it as part of a data request.  
23 And so I don't recall that date.

24 We -- I do know that we just have recently  
25 conducted a new residential saturation study. And that

1 has also been provided in a data request. And that was in  
2 response to the '22 IRP, which directed Georgia Power to  
3 update its residential saturation study.

4 Q. Is it fair to say that the commercial  
5 saturation study wasn't in the three-year cycle?

6 A. (Witness Phillips) We did not update the  
7 commercial saturation in the last years.

8 Q. Would you agree that it's important to  
9 examine where growth is occurring on the system and to  
10 target energy-efficiency measures there?

11 A. (Witness Phillips) When you say growth, could  
12 you be more specific what you're referring to?

13 Q. Load growth.

14 A. (Witness Phillips) Well, I think growth is an  
15 -- isn't a -- it's a variable that needs to be considered.  
16 As Dr. Beppler stated, in our modeling we model  
17 representative facilities, we model both residential and  
18 commercial facilities, when trying to calculate the  
19 potential savings.

20 And I think the potential TEAPOT study. One  
21 of the first steps in the TEAPOT study is the market  
22 characterization. So we do consider changes to the  
23 market. That's one of the first steps.

24 And then once we complete the market  
25 characterization, then we begin the measure



1     characterization.    So I think growth is considered.  
2     Inherently it's considered in the forecast, which is part  
3     of that market characterization and developing a baseline  
4     forecast for the potential study.    So certainly growth is  
5     important and I think we capture that to some extent in  
6     our analysis.

7             A.       (Witness Beppler) I will just add there, when  
8     we're talking about growth, we're often talking about new  
9     facilities, which are installing measures or equipment  
10    that is more efficient or is based on the latest building  
11    codes and standards.    So there actually is more potential  
12    available in the existing market for customers who maybe  
13    don't have as new of equipment or whose buildings were  
14    built before some of the recent evolution in codes and  
15    standards.

16            A.       (Witness Goff) That's right.    At the end of  
17    the day, we want to go to where the potential is in the  
18    most cost-effective manner that we can for the benefit of  
19    our customers.

20            Q.       Did y'all watch the panel two days ago?  
21                      First panel, but the first day?

22            A.       (Witness Goff) Yes.

23            Q.       They said that improvements and efficiencies,  
24    like in -- this isn't a quote.    I'm paraphrasing.  
25    Improvements and efficiencies in, like, servers at a data

1 center will just lead to more densely packed data centers.  
2 That if servers improve, they'll just add more.

3 Is it Georgia Power's position that there are  
4 no energy-efficiency gains to be gotten from data center  
5 customers?

6 A. (Witness Goff) No, I don't think that's the  
7 company's position. There are certain measures included  
8 in our commercial programs that I think would -- data  
9 centers could participate in.

10 But, in general, what we hear from the data  
11 centers in working with them, and I think this is what  
12 Panel 1 expressed, is the data centers are very efficient.  
13 And as they continue to get more efficient, then they're  
14 going to take that extra capacity to add more to their  
15 operations.

16 So I don't think that we're saying there's no  
17 efficiency. I think that -- to the extent that they can  
18 be more efficient, that's great. But, to your point, what  
19 we're hearing right now in the market is that that would  
20 be kind of taken up with additional usage on their side.

21 A. (Witness Beppler) Yeah. And it's --

22 VICE-CHAIRMAN ECHOLS: Ms. Goff, let me ask  
23 you --

24 MS. GOFF: Yes, sir.

25 VICE-CHAIRMAN ECHOLS: In the conversations,

1           these are new buildings. So the SEER rating on the  
2           HVAC units that they're putting in, have you had --  
3           are they putting ENERGY STAR units in?

4           Do you know; are they lower SEER, higher  
5           SEER?

6           Have you had any conversations about that?

7           MS. GOFF: I don't know the SEER  
8           specifically. I saw some metric -- and I wish I  
9           could remember what it was called.

10          But it was essentially a metric around the  
11          efficiency of their non-server usage. That has  
12          gotten dramatically more efficient over time in one  
13          of the presentations I saw.

14          So I can't equate that to a SEER rating for  
15          you, but they have shown -- I've been in a meeting  
16          where they've shown how they are getting more  
17          efficient with their non-server -- the parts of the  
18          facility that are not the servers.

19          VICE-CHAIRMAN ECHOLS: I went to the data  
20          center conference over here in Midtown. And they  
21          were -- there were a number of vendors there who  
22          were touting insulation, different  
23          energy-efficiency things for -- you know, for data  
24          centers, in terms of technology and efficiency. I  
25          don't know how many of them are doing it, but the

1 vendors are paying the fee to get over there in  
2 front of them.

3 MR. PHILLIPS: And I think to Dr. Beppler's  
4 point -- and this point was also made by Panel 1.  
5 We are working closely with many of the new data  
6 centers, the ones that are selecting Georgia Power  
7 as their energy provider.

8 We have a number of existing data centers  
9 that we serve today and have served for a number of  
10 years. And data centers, being commercial  
11 customers, are eligible to participate in any one  
12 of our commercial energy-efficiency programs.

13 MS. GOFF: We've got hundreds of measures out  
14 there and then the custom program can be something  
15 custom to their facility.

16 DR. BEPPLER: And I just want to be clear,  
17 and if you'll indulge me a little bit. I know  
18 there were some economists in the room earlier.  
19 I'm not -- I can't see if they're still there.

20 But Jevons paradox was, I think, the Panel 1  
21 term that you were referring to.

22 BY MR. SHERRIER:

23 Q. Yeah.

24 A. (Witness Beppler) It's also known as the  
25 rebound effect. So it's not that there isn't

1 energy-efficiency potential for data centers, it's just  
2 that when you make and use more efficient it may lead to  
3 additional adoption and usage in that end-use.

4 And so what we're saying is that we don't  
5 anticipate that the -- just because the chips or the  
6 servers become more efficient that the overall usage of  
7 the computing power would decline. We think that those  
8 customers are likely to just add more because the use  
9 cases have expanded.

10 Q. Okay. So is it Georgia Power's position that  
11 there are no net energy efficiency gains to be gotten from  
12 data center customers?

13 A. (Witness Phillips) Well, I don't -- I don't  
14 think we've made that as a position. I don't think we've  
15 stated that.

16 A. (Witness Beppler) No. So the utilization of  
17 any one unit becomes more efficient and then that can lead  
18 to more units.

19 A. (Witness Goff) But at the end of the day,  
20 we're going to continue to monitor. We have a flexible  
21 process. And so as we learn more, we will incorporate  
22 that into all of our assumptions and continue to bring  
23 forth plans to this Commission based on the latest and  
24 greatest information.

25 Q. The TEAPOT study from this cycle found that

1 ENERGY STAR servers and data centers had the highest  
2 achievable potential savings by 2035; right?

3 A. (Witness Phillips) Can you refer to a  
4 specific page?

5 Q. Yes. It's page -- Table 2-12, maybe on  
6 page 4.

7 A. (Witness Phillips) Did you say page 4?

8 Q. Yeah. Unless it cut off. Table 2-12.

9 A. (Witness Phillips) Okay. I'm at 2-12.

10 Q. Yeah. And then it's line 16.

11 A. (Witness Phillips) Yes. So, Commissioners,  
12 Table 2-12 is the commercial top 20 measures in 2024  
13 achievable potential savings. And what this table is  
14 comparing is the top 20 measures and the megawatt savings  
15 in the year 2024 versus the megawatt savings in 2025.

16 And in the year 2025, ENERGY STAR servers do  
17 have the largest potential, in terms of megawatt savings,  
18 in that year. And so we certainly see opportunity for  
19 data centers or servers specifically.

20 It's important to note that there are a  
21 number of servers across the state that aren't in data  
22 centers. They're in buildings, they're in facilities  
23 where they could qualify for these energy-efficiency  
24 programs if they upgrade.

25 And so this is specifically directed towards

1 servers. Obviously data centers dealing with a  
2 concentration of servers would be a customer that could  
3 participate. And so with the future growth in data  
4 centers, we are reflecting that to some extent in the  
5 potential study in this table and in our results.

6 A. (Witness Goff) And I'll also point you to  
7 page 29, Appendix H, of our DSM application. This is the  
8 commercial custom measures.

9 Again, I don't have all the details on every  
10 single measure. There's hundreds of them. But there's  
11 very specific data center measures included in these  
12 commercial programs.

13 So to the extent a data center can be more  
14 efficient and take advantage of what we've offered here,  
15 that -- that's great. That is part of our program design.

16 Q. Am I reading the proposed plan right that the  
17 plan is for -- under the commercial prescriptive program  
18 for ENERGY STAR servers, that the estimate is 34 servers  
19 each year?

20 A. (Witness Goff) Where are you -- is that in  
21 the TEAPOT study?

22 Q. No.

23 A. (Witness Goff) Okay. Is it in -- I've got  
24 Appendix H open. Is it in Appendix H?

25 Q. I think it's in one of the document responses

1 where you gave more information about the measures.

2 A. (Witness Goff) Okay. I don't have all the  
3 data requests here. I know there's a lot of work papers  
4 provided, too.

5 What I've got here is there are a list of  
6 measures in Appendix H, if that's something that you're  
7 asking about. I'm happy to look.

8 Q. Well, yeah. Could you tell me about the best  
9 practice measures for data centers?

10 What does that mean?

11 A. (Witness Goff) I don't know specifically.  
12 I'm very confident the design team and the implementation  
13 team would be able to tell you. But I do know that there  
14 are at least three measures on this page, both on the top  
15 and then three on the bottom, that have data centers  
16 associated with them.

17 So there are options out there, in addition  
18 to things like, you know, building shell and other HVAC.  
19 And, again, the custom program is great because if a  
20 customer has something that's specific to their facility,  
21 they can come to us with what those ideas are and work  
22 with the contractor to qualify for those incentives. So  
23 data centers are not the focus of our program design, but  
24 there are certainly options out there available for them  
25 if they want to participate.



1 Q. Thank you.

2 They can come to you. Do you go to them?

3 A. (Witness Goff) I'm sorry. Say it one more  
4 time.

5 Q. Do you -- you said they can come to you to  
6 participate. Do you go to them?

7 A. (Witness Goff) Heck, yeah. I mean, we work  
8 with our customers every day. We have people in the  
9 customer voice group, national accounts group, our region  
10 external, our sales group. I mean, we're with customers  
11 every single day.

12 Sorry. I get --

13 Q. I like --

14 A. (Witness Goff) Everybody is laughing.

15 COMMISSIONER PRIDEMORE: That's good. Heck,  
16 yeah.

17 MS. GOFF: I mean, yeah. Bring it on.

18 Anything that we can --

19 COMMISSIONER PRIDEMORE: If you're not  
20 passionate about what you do, why do it?

21 MS. GOFF: Anything we can be more efficient  
22 for the benefit of our customers is something we  
23 should all be passionate about.

24 BY MR. SHERRIER:

25 Q. I'm going to shift over to you, Dr. Beppler,

1 in a second.

2 But, Ms. Goff, you mentioned you've seen a  
3 presentation about an analysis of data. Was that -- tell  
4 me about that, please.

5 A. (Witness Goff) I wish I could remember the  
6 metric. It's been several months. I don't have the  
7 slides.

8 But it was something around -- there was the  
9 server efficiency and then there was the efficiency of the  
10 rest of the building. And after I'm going to probably be  
11 a little loose on details.

12 But what my takeaway was is that the data  
13 centers themselves -- that non-server efficiency had  
14 gotten markedly improved over time. And so happy to  
15 provide more details once I have them. I just don't have  
16 them here today.

17 Q. Yeah. I would love that.

18 Was it a Georgia Power study?

19 A. (Witness Goff) I honestly -- it's been  
20 probably -- it's been many months. So I don't remember  
21 the specifics.

22 Q. Okay. Yeah, I would love to follow up about  
23 that.

24 Shifting to demand response, but staying with  
25 data centers. So demand response I'm here meaning shaving

1 peak loads on high-demand days. Georgia Power is  
2 projecting a need for nearly 9 gigawatts of new capacity  
3 by 2031. More than 80 percent of that is from data  
4 centers.

5 The previous panel testified that Georgia  
6 Power could ask to certify 8,500 megawatts of new  
7 resources the month after this IRP ends. I think that we  
8 can agree those are big numbers. So big that a reduction  
9 of just 10 percent of this new large load could save bill  
10 payers more than an entire new combined-cycle unit.

11 So I say that to say that I apologize in  
12 advance if this feels repetitive. But I want to be as  
13 clear as possible in the record about how y'all are  
14 approaching this moment.

15 Has Georgia Power Company asked existing data  
16 center customers whether they're willing to reduce their  
17 loads on high-demand days?

18 A. (Witness Beppler) As I think was previously  
19 stated, we're talking with our customers on a continuous  
20 basis. And I think we have a robust portfolio of programs  
21 that these customers can participate in. That includes  
22 our interruptible programs, as well as our new DER  
23 programs, which are designed specifically for customers  
24 who may be bringing backup generation, like many of these  
25 data center customers are.

1                   In addition, many of these large customers  
2                   are taking service through a rate which includes a dynamic  
3                   price signal. So they are already receiving information  
4                   about when the optimal time to reduce their usage is to  
5                   benefit the system. Historically we have not seen these  
6                   data centers be particularly price responsive, but  
7                   certainly they have the ability to respond to those prices  
8                   in realtime.

9                   Q.       You say: We are in conversation. Who  
10                  approaches them to discuss RTP rates?

11                  Who approaches them to discuss the  
12                  demand-response programs that Georgia Power offers?

13                  A.       (Witness Beppler) So I'm not familiar with  
14                  all of the specific conversations that are had. But as  
15                  part of the contracting process, there's conversations  
16                  with our customer choice, economic development team, our  
17                  sales team, who are aware of these program options and can  
18                  communicate about the benefits of participation or the  
19                  incentive structures that are available through these  
20                  specific rate options.

21                  A.       (Witness Goff) And, again, the DER programs  
22                  are a great option for data centers, too. And that allows  
23                  us to hopefully leverage assets that they may be using for  
24                  resiliency to the benefit of the grid.

25                  So there's a wide variety of things that data

1 centers can contribute and participate in that the company  
2 is already offering.

3 Q. Are any of you on the large-load governance  
4 team?

5 A. (Witness Goff) Yes. I am involved with  
6 several meetings associated with large-load customers.  
7 And there's a lot of governance that is taking place  
8 across the company. These are large customers and so  
9 large governance -- governance around large loads is  
10 important.

11 Q. I mean the specific large-load governance  
12 team that Witness Robinson referred to in his testimony.

13 A. (Witness Goff) No. I don't think any of us  
14 are involved with that one.

15 Q. Is anybody from your departments on the  
16 large-load governance team?

17 A. (Witness Goff) Not the one that he was  
18 describing. But, again, there's lots of -- there's lots  
19 of governance taking place across the company. We want to  
20 get this right. We all have an aligned incentive around  
21 making sure that we're planning the system appropriately  
22 to be able to deliver reliable and affordable electricity  
23 to our customers.

24 A. (Witness Beppler) Yeah. And I'll recall -- I  
25 think Witness Robinson testified in many of those

1 conversations with data centers -- I believe he said  
2 they're often looking for five 9s reliability. And so  
3 that is a paramount importance to them.

4 To the extent that they have the willingness  
5 or ability to participate in programs, we have options  
6 available for them. And we think that provides value, but  
7 we are certainly not mandating participation in the  
8 programs.

9 Q. I'm going to come back to a lot of things  
10 that y'all said, but I'm going to go through this list.

11 Does anybody from y'all's department talk to  
12 data centers in the pipeline about demand response?

13 A. (Witness Goff) People that we work with and  
14 -- I don't know that we talk to the data centers  
15 themselves.

16 Well, yeah. So we have been in conversations  
17 and/or groups that we work with about our DER programs  
18 specifically. So we're trying to get customers enrolled  
19 in those programs. There's a lot of benefits that can be  
20 had for the system through that participation. So, yes.

21 A. (Witness Beppler) I would agree, yes. We  
22 have been in conversation with data centers or the  
23 companies that are driving some of this data center group.

24 Q. When you talk about the demand response, are  
25 you talking about 2 percent, 5 percent, 50 percent of

1 their load?

2 A. (Witness Beppler) I'm not sure I follow you.

3 Q. When you describe the options to them for  
4 demand response, do you talk through different  
5 percentages?

6 And, again, 10 percent of a 1,000 megawatts  
7 is a lot.

8 A. (Witness Beppler) So the structure of our  
9 existing demand response and DER programs enables  
10 flexibility in the amount of demand response that a  
11 customer would want to enroll in a program. So there's an  
12 option. They could enroll -- to use your numbers,  
13 2 percent or 50 percent. The structures are designed to  
14 be flexible for their arrangements.

15 Q. Are you in discussions with committed  
16 customers -- committed being the Georgia Power term --  
17 about whether those data center customers are willing to  
18 reduce their loads on high-demand days?

19 A. (Witness Beppler) I can't speak to specific  
20 conversations, but I think as we've -- we've stated a  
21 couple of times, there are a number of options available  
22 for them to participate in programs, as well as incentives  
23 through the underlying rates to encourage them to reduce  
24 their load during those high-demand periods.

25 A. (Witness Goff) So the company already has two

1 DER programs that are supply-side programs. The larger of  
2 those two is the one that would probably be most  
3 applicable to data centers. That's already been approved.

4 What we have included in this filing is a  
5 new, large customer-owned option that would be more akin  
6 to a demand-response option, as you're describing.  
7 Hopefully that will be approved. I know the Commission  
8 will consider it. And then that would be another option  
9 that we would work with data centers to see if that's  
10 something that they would like to participate in.

11 As Dr. Beppler mentioned, there's RTP,  
12 there's the curtailable load tariff that's already out  
13 there. There's a variety of options out there for our  
14 customers, whether they're a large load, small load.  
15 There's a lot -- there's a lot of options out there with  
16 the benefit of trying to create the most efficient grid  
17 that we can for the benefit of all customers.

18 Q. Have y'all put together, like, a data center  
19 package of: Here's your demand-side options?

20 A. (Witness Beppler) I don't know if there's a  
21 specific package, but there have been a number of  
22 proposals and we do have some decks that outline the  
23 specific program options available for customers to  
24 participate. Our sales and implementations teams are  
25 having regular conversations with customers utilizing



1 those resources.

2 A. (Witness Goff) and hopefully this flexible  
3 framework is an economic-development tool. I mean,  
4 hopefully the fact that Georgia Power has such reliable  
5 service, but rates that are, you know, affordable for our  
6 customers, and a variety of options for data centers to  
7 participate in these type of programs, that should be  
8 something that's very attractive for the state.

9 Q. When new service is requested, what efforts  
10 does the company make to encourage the customer to build  
11 to higher efficiency standards than code?

12 A. (Witness Beppler) I don't think that we're in  
13 the practice of dictating to our customers what equipment  
14 they should be installing, but certainly we have programs  
15 available to them that might incentivize more efficient  
16 end-uses.

17 Q. Of the committed data centers, how many  
18 megawatts of load flexibility is Georgia Power planning  
19 for?

20 A. (Witness Beppler) Can you be more specific  
21 with load flexibility?

22 Q. How many demand-side option --  
23 demand-response option megawatts from these data center  
24 customers is Georgia Power planning for?

25 A. (Witness Beppler) I don't believe that we

1 have any for -- any megawatts on the demand-side ledger  
2 for new -- new projects or these new programs to this  
3 point. We do have some megawatts reflected for customers  
4 that are enrolled in our existing Demand Plus Energy  
5 Credit Program, which is one of our longest standing  
6 interruptible programs.

7 In addition, we do take into account the  
8 historical response of customers in developing the  
9 forecasts. And so to the extent we've seen customers  
10 respond to price signals through things like RTP, we would  
11 incorporate that in the forecast, as well.

12 A. (Witness Goff) And the structures there, the  
13 company has proactively brought programs forward to this  
14 Commission in order to have those flexibility options  
15 available for our customers. So we want these programs to  
16 be successful and hopefully create efficiency, again, for  
17 all customers.

18 Q. Me, too. Let's talk about those programs.

19 I want to look at the demand-side options  
20 that Georgia Power does give some capacity credit to now  
21 on the resource ledger.

22 Is that the Territorial Base Case versus  
23 Existing Capacity Cable?

24 A. (Witness Beppler) Can you point me to a  
25 specific reference?

1 Q. Technical Appendix II.

2 A. (Witness Goff) I've got Technical Appendix I.

3 A. (Witness Phillips) Do you have a copy?

4 Q. I might. It's very tiny numbers, though.

5 This is a big spreadsheet.

6 I have 2023 and 2022, which I will give y'all  
7 in a moment, I suppose, but I don't have the current one.

8 Y'all okay?

9 A. (Witness Goff) Where is it?

10 Q. The Technical Appendix II, the Territorial  
11 Base Case versus for Existing Capacity.

12 Are you familiar with the resource ledger?

13 A. (Witness Beppler) Yes.

14 Q. It shows how much capacity Georgia Power is  
15 forecasting for specific demand-side options in part of  
16 it; right?

17 A. (Witness Beppler) Correct.

18 Q. Would it surprise you that Georgia Power's  
19 total forecasted capacity for demand-side options in this  
20 case is lower than what it was in 2023?

21 A. (Witness Beppler) Are you speaking to the  
22 program capacity or the planned capacity?

23 Q. Planned.

24 A. (Witness Beppler) Okay. Commissioners, it  
25 doesn't necessarily surprise me. I think, as we testified

1 to yesterday, there was some megawatts included for the  
2 DER customer pilot that was approved.

3 Assuming that we would fully enroll that  
4 program, moving into this cycle we elected to remove those  
5 megawatts until we have specific customers contracted to  
6 participate in that program. So I think that's probably  
7 what's causing that planned megawatts to decline between  
8 vintages.

9 Q. We'll look at the demand plus energy credit  
10 and the realtime pricing DPEC in the RTP.

11 Is it fair to describe those two programs as  
12 large customer demand-response programs where you can get  
13 demand reductions in response to pricing? I believe you  
14 were kind of talking about this a moment ago.

15 A. (Witness Beppler) Yes. I think I clarified  
16 that DPEC is sort of your traditional demand response.  
17 RTP operates a little bit differently where it's not  
18 specific event-caused, Commissioners, but rather a  
19 provision of a continuous stream of price data that  
20 indicates what system costs are in any given hour.

21 Q. For DPEC, would it surprise you if the  
22 current resource ledger planned for less than  
23 100 megawatts?

24 A. (Witness Beppler) I don't have the specific  
25 number here, but I -- that doesn't surprise me. As we go

1 into each planning cycle, we look at the enrolled  
2 customers in these programs and then we do a continual  
3 best practices of evaluating the available response and  
4 how that aligns with our periods of system need or the  
5 areas in time where we're most likely to be reliability  
6 challenged and see how those megawatts of the customer  
7 load shape align with the system needs.

8 That enables us to provide an ELCC, effective  
9 load carrying capability, for those programs. And so  
10 that's updated each vintage, Commissioners, and can result  
11 in a little bit of difference between vintages in the  
12 actual number of megawatts that we reflect for planning  
13 capacity on the ledger for those programs.

14 A. (Witness Goff) And if you zoom out, I think,  
15 on page 9 of our testimony, lines 19 through 20, or, let's  
16 see, 18 through 20, it says: By 2028, our DSM portfolio  
17 -- now that includes things like DSM, DPEC, CDR, RTP,  
18 other things, that's 1,400 megawatts or approximately  
19 8 percent of the current peak demand.

20 So, you know, that is a -- when you kind of  
21 zoom out and do a culmination of all the things that are  
22 available, that's the number that's available through our  
23 testimony.

24 Q. The DPEC capacity, though, is flat for the --  
25 all 20 years. Do you not expect that program to get more

1 savings over time?

2 A. (Witness Beppler) I'm sorry. Can you be a  
3 little more specific?

4 Q. On the resource -- on the resource ledger  
5 it's flat across for 20 years. It's the same savings as  
6 today.

7 A. (Witness Beppler) You mean the projections of  
8 future savings on the ledger --

9 Q. Yeah. Capacity.

10 A. -- are consistent through time? Yeah.

11 So, Commissioners, based on our best  
12 available information, we continue to reflect those  
13 savings out into the future. Because we anticipate that  
14 those customers who are currently enrolled will stay  
15 enrolled in the program.

16 To the extent new customers sign up for that  
17 program, or the customers who are on that program expand  
18 their operations over the amount of demand response  
19 they're committing to, we would update those numbers to  
20 reflect that.

21 As I mentioned, this is an annual process.  
22 So we're currently -- or we're constantly applying the  
23 best available information on the amount of the response  
24 available to inform the demand-side ledger.

25 Q. Will it be updated before July of this year?

1           A.       (Witness Beppler) I -- I don't believe it  
2 will be before July. It's updated consistent with the  
3 annual IRP process. So each cycle, as we identify all of  
4 the supply-side resources, we do the same thing on the  
5 demand-side.

6           Q.       I suspect based on those answers that it  
7 might be similar here. But on RTP, can you describe that  
8 kind of in simple terms with RTP and how it shows up as  
9 capacity?

10          A.       (Witness Beppler) Sure. So I want to be  
11 clear. There is a component of RTP which is reflected as  
12 a reduction in the load forecast. That's sort of the  
13 normal RTP response.

14                 What's captured in the ledger, Commissioners,  
15 is what we sometimes refer to as extreme response. But  
16 essentially that is a response that would be anticipated  
17 if those RTP prices got above the normal or typical  
18 threshold that we see for those costs. And so that is  
19 reflected separately as a demand-side option. It reflects  
20 larger response than you would anticipate when prices are  
21 higher.

22          Q.       A lot of Georgia Power's retail sales are  
23 under the RTP tariff; right?

24          A.       (Witness Beppler) That is correct. I believe  
25 the figure is roughly a third of Georgia Power's retail

1 load is -- receives a dynamic price signal.

2 Q. Because that includes data centers. But do  
3 you expect data centers to also enroll in that tariff?

4 Have you seen them do that to date?

5 A. (Witness Beppler) I believe some data centers  
6 are being served through RTP or a dynamic rate, yes.

7 Q. So why is the RTP capacity credited in the  
8 resource ledger also flat for 20 years?

9 A. (Witness Beppler) Again, the ledger reflects  
10 our best available information. And historically we have  
11 not seen data center customers that we have today on the  
12 RTP rates be particularly price responsive. To the extent  
13 that in the future those responses materialize, we would  
14 update the megawatts that are reflected on the ledger to  
15 reflect that.

16 A. (Witness Goff) And as Mr. Valle pointed out  
17 in Panel 1, there's a constant evaluation of where our  
18 forecast is, where actuals are coming in. And so as  
19 Dr. Beppler described, flexible framework. And so as we  
20 learn more, all of that best information is incorporated  
21 into our assumptions.

22 Q. Is that why the -- the numbers for RTPs  
23 changed in between 2023 and now?

24 A. (Witness Beppler) I think part of that change  
25 also reflects that we lost a particularly price-responsive



1 customer. Witness Valle could have spoken a little bit  
2 better to the specifics of that. But I do know that there  
3 was some -- some change in customer mix and one of those  
4 very price-responsive customers is no longer taking  
5 service.

6 Q. Thank you. That does explain that.

7 Would it take less than six years to change  
8 those numbers?

9 Like, could you increase the capacity of  
10 those in under six years if you got better price response  
11 signals out?

12 A. (Witness Phillips) When you say better price  
13 response signals, what do you mean by that?

14 Q. Of a third of the sales, it's, like, 100  
15 megawatts is responding to the price.

16 A. (Witness Beppler) No, no, no. So  
17 clarification. As I mentioned before, that's just a  
18 portion of the price response. Some of it is captured in  
19 the forecast.

20 That is just the portion that is above the  
21 standard price deviation that we see currently in RTP. So  
22 it reflects those extremely high-priced scenarios where  
23 RTP prices would be above the traditional thresholds, or  
24 what we've seen historically. And so with those higher  
25 prices we would expect to see some additional response on

1 top of that that is captured in the forecast.

2 A. (Witness Goff) And I think that's very  
3 consistent. Mr. Valle and Dr. Beppler can confirm, but I  
4 think these processes are very consistent with the  
5 processes that we've been employing for many years now.

6 Q. I think that's right. I think that things  
7 are changing in the short term is why I'm asking about  
8 this in such detail.

9 A. (Witness Goff) That's right. And, again, we  
10 are monitoring in the short term for the latest and  
11 greatest information to incorporate into our planning  
12 process.

13 Q. And the first panel said that there was a  
14 different nature to this load -- excuse me -- and that  
15 Georgia Power is talking to other utilities about best  
16 practices, how they're responding to data center requests.

17 What are -- are there other new programs in  
18 the works that aren't in the IRP yet?

19 A. (Witness Beppler) I think Section 10.5  
20 specifically discusses that we're having ongoing  
21 conversations and trying to meet customer needs. So what  
22 we've put forward in this proposal is a new large customer  
23 owned resiliency option.

24 I think that is the only new large customer  
25 or DER or DR program, but we are continuing to look at

1 best practices, available options, listen to the needs of  
2 our customers. And making sure that we're not only  
3 meeting the needs of those potential participating  
4 customers, but that by offering these programs we'll be  
5 able to deliver benefits to all customers, as well.

6 Q. Have you -- has Georgia Power considered  
7 requiring all new large loads to do some kind of demand  
8 response, given the scale of this?

9 A. (Witness Beppler) I'm not aware of any sort  
10 of mandate to participate. But we do think that there is  
11 value in having options available to these customers.

12 A. (Witness Goff) And, again, the programs we  
13 offer, they offer benefits to the participating customer  
14 and they offer benefits to all customers. And so we do  
15 have a suite of programs that are available for all of our  
16 customers, large customers and small customers.

17 Q. But what about temporal and spacial workload  
18 shifting? Have y'all -- have y'all worked with data  
19 centers about reducing demands through those ways?

20 A. (Witness Beppler) Again, I think many of  
21 these data centers already have those incentives through  
22 the rate that they are taking service under. They can  
23 reduce their operating costs by shifting their usage to  
24 lower-cost hours, which correspond to hours where it's  
25 more efficient and cheaper to operate the system.

1 Q. But it's not in the capacity plan yet?

2 A. (Witness Beppler) Again, as I've stated, we  
3 continue to update these based on the best available  
4 information. So some portion of that response is baked  
5 into the forecast. There's some additional response  
6 that's also captured on the resource ledger.

7 And as we see response change over time, be  
8 it through new customers added to the system or changing  
9 behavior of those customers, then we would reflect those  
10 changes in the resource ledger.

11 A. (Witness Goff) And I will say we are here to  
12 talk through the programs that we're offering. How the  
13 ultimate capacity plan and the supply-side plan comes  
14 together, that really is a Panel 1 topic.

15 Q. On the demand side, have you looked at maybe  
16 quicker interconnection times for large loads that are  
17 willing to do load flexibility?

18 A. (Witness Beppler) One of the advantages of  
19 the new program that we've introduced, the large customer  
20 owned resiliency program, is that it will be on the demand  
21 side as opposed to the colocation program which was  
22 previously approved.

23 The intent of that is to shorten the  
24 interconnection timeline. So we've heard discussion of  
25 FERC Order 2022, which mandated that cluster study

1 process. That extended the timeline for supply-side  
2 resource interconnection.

3 This new program will provide faster  
4 interconnection timelines because it won't be subject to  
5 those same FERC-mandated interconnection processes.

6 Q. Turning to the distributed energy resource  
7 programs that y'all have mentioned -- and apologies to  
8 everybody. That is RAS, DRC, DCL, and DCO?

9 A. (Witness Beppler) Yes.

10 Q. None of them have any subscribers?

11 A. (Witness Beppler) Currently, no. As -- as we  
12 testified yesterday to some questions from staff, we are  
13 in a series of ongoing conversations with interested  
14 customers. So we have seen that customers are interested.

15 And we've continued to make progress in  
16 discussing sort of more specific details around contract  
17 language and equipment types and things of that nature.  
18 So there's momentum building and we see interest from our  
19 customers, but we don't have anyone enrolled to date.

20 A. (Witness Goff) Based on all the smirks, maybe  
21 it's the names of the programs. Maybe we need to update  
22 our acronyms.

23 Q. But, yeah. I don't know. I'm not a brand  
24 name person.

25 Are you considering other design changes,

1     though, in addition to names?

2             A.       (Witness Beppler) So we did request approval  
3     from the Commission in this proceeding for a change for  
4     the DER customer-owned program. So that's DCO, if we're  
5     following along in the acronym alphabet here.

6             And that is to extend the potential  
7     contracting duration from -- through 2031, as the language  
8     currently is written, to up to 15 years. And the intent  
9     of that change is to provide some more certainty and  
10    benefit to participating customers who are having to make  
11    the upfront investments in these resources and the  
12    interconnections to enable them to be used for the benefit  
13    of all customers, while also extending the duration of  
14    time that all customers are going to benefit from  
15    procuring that capacity at below avoided cost.

16            Q.       Why aren't you recommending any changes to  
17    the other three?

18            A.       (Witness Beppler) Because we continue to see  
19    customer interest in those and we've introduced a new  
20    program here, which sort of rounds out the portfolio. We  
21    think now we have a suite of programs that can meet all of  
22    these individual customer needs.

23            So customers are not a monolith. They have  
24    unique needs and preferences, as far as ownership type,  
25    payment structure, all of those things. And so we think

1 having a portfolio of options available to them is likely  
2 to lead to the most success in enrolling customers.

3 Q. You mentioned that you're in discussions  
4 around DCL and DCO. Is it accurate to say that of the 11  
5 customers you're in discussions with, none of them are  
6 greater than 50 megawatts?

7 A. (Witness Beppler) I don't recall specifically  
8 the megawatt numbers. But, subject to check, I'm willing  
9 to accept that.

10 Q. So is it fair to say that not -- no one in  
11 the large-load pipeline is in discussions about the four  
12 existing programs?

13 A. (Witness Beppler) I would not agree with that  
14 statement. As we testified to earlier, Commissioners,  
15 we're having conversations specifically with some of these  
16 large-load customers about the options available to them.  
17 We may not have made firm proposals to any individual site  
18 for those customers, but they are certainly aware of the  
19 options to participate.

20 The other thing I'll highlight is sort of  
21 beyond the specific customers in the pipeline. We're also  
22 engaging with these customers in a number of collaborative  
23 exercises. So one of those that I think was mentioned  
24 yesterday was an EPRI initiative called DCFlex. And so  
25 that is conversations between utilities and these large

1 load or data center customers about how to best take  
2 advantage of any potential flexibility in their operations  
3 for the benefit of the system.

4 Q. If a large-load customer enrolled in one of  
5 these four programs -- or five, if the proposal gets  
6 approved?

7 A. (Witness Beppler) I think it would still be  
8 four programs. So DRC and RAS are sort of linked under  
9 the customer program, yeah.

10 A. (Witness Goff) And they each have different  
11 qualifications. So depending on loads, the size of the  
12 customer, they may or may not be eligible for all four.

13 Q. Let me try again. If a large-load customer,  
14 like a data center currently in the pipeline, enrolled in  
15 one of these programs, DER programs, could you see those  
16 capacity benefits in less than six years?

17 A. (Witness Beppler) Yes.

18 MR. SHERRIER: Thank you. I don't have any  
19 other questions. I appreciate the Panel's time.

20 CHAIRMAN SHAW: Do you need a break?

21 Let's try to go to 12:30.

22 Panel, do y'all need a break?

23 MS. GOFF: No.

24 DR. BEPPLER: Doing fine. Thank you.

25 CHAIRMAN SHAW: Mr. Jones, we'll go ahead and



1 call the Solar Energy Industries Association,  
2 unless you would want to wait until after lunch?

3 How much time do you need?

4 I might have to bring somebody else up that  
5 can fill in this gap.

6 MR. JONES: Commissioner Shaw, I probably  
7 will take past 12:30. If you would like to call  
8 somebody else out of order, that would be fine with  
9 us.

10 CHAIRMAN SHAW: Mr. Moreland.

11 MR. MORELAND: I would go past 12:30  
12 probably.

13 CHAIRMAN SHAW: Ms. Coyle.

14 MS. COYLE: I can do it in 10.

15 CHAIRMAN SHAW: All right.

16 UNKNOWN SPEAKER: Not the hero we deserve,  
17 but the one we need.

18 CHAIRMAN SHAW: Are you good with that, Liz?

19 MS. COYLE: I'm absolutely good with that.  
20 Thank you.

21 CROSS-EXAMINATION

22 BY MS. COYLE:

23 Q. I thought I would be saying good morning, but  
24 obviously here we are afternoon. Good afternoon. Good to  
25 see you all.

1                   And I do just have just a few really  
2 clarifying questions for all this excellent cross that has  
3 already happened.

4                   I wanted to start going back to where we  
5 started yesterday afternoon. Mr. -- there were a lot  
6 of -- there were a lot of numbers crossed -- sorry --  
7 tossed around when -- the conversation with Mr. Collado.  
8 And I just want to clarify. And, again, there were some  
9 questions just recently by Mr. Sherrier.

10                  Your expectation to achieve the 0.75 percent  
11 the 750 gigawatt-hours, would increase the current budget  
12 from roughly 94 million to 570 to 580 million.

13                  Would that start in 2026?

14           A.       (Witness Goff) Yes.

15           Q.       And you put that yesterday -- you put that in  
16 the context of some supply-side spending comparisons. You  
17 compared -- and you had mentioned again this morning with  
18 Mr. Sherrier, you compared the amount of -- you said that  
19 since 2011, 27 -- 4,700 gigawatts of savings have been  
20 achieved.

21                  Am -- am I correct that you compared that to  
22 plant -- one of unit, two --

23           A.       (Witness Goff) So -- yeah. So coming into  
24 this I wanted to have an analogy of what is 4,700  
25 gigawatt-hours of energy reduction compared to. And so I

1 asked my friends in resource planning. And it's the  
2 Georgia Power share of what Vogtle Unit 2 produced last  
3 year. So that's the amount that we've achieved since 2011  
4 to the benefit of customers.

5 Q. So one year of one level --

6 A. (Witness Goff) That's right.

7 Q. -- of unit in one of the older units?

8 A. (Witness Goff) Yes.

9 Q. Okay. But --

10 A. (Witness Goff) But significant.

11 Q. But significant. And so would you say that  
12 in that -- and so if you're looking at a budget next year  
13 of 570 million, could you put that in the context of what  
14 it would cost -- you know, as opposed to building another  
15 Plant Vogtle, for example, if you put it in the context of  
16 the potential cost of the entire supply-side program  
17 that's included in this IRP.

18 A. (Witness Goff) I can't do that. I don't have  
19 that information. I apologize.

20 Q. You couldn't -- so if you're -- okay.  
21 Maybe -- maybe one of the other -- if it's 570 -- you're  
22 estimating 570 to 80 million for -- for these programs  
23 starting in 2026.

24 You have no way of comparing that to the  
25 potential cost of the entire IRP system?

1           A.       (Witness Goff) No. The only comparison I  
2 have is that currently our budgets are about 90 million.  
3 So the budgets to achieve .75 percent are five to six  
4 times what we are implementing today.

5           Q.       But would you say that this -- this is the  
6 budget that's in -- the current one that's in the  
7 millions, looking ahead it's in the millions.

8                    Wouldn't you say that previous supply-side  
9 budgets have been more in the billions range?

10          A.       (Witness Goff) That's probably a better  
11 question for Panel 1. But, again, through these IRP  
12 processes, we bring forward the most economic proposals to  
13 the Commission to be able to reliably and affordably serve  
14 our customers across the state.

15          Q.       In a cost-effective way for these programs  
16 you feel; that these --

17          A.       (Witness Goff) The cost-effectiveness  
18 measures are included in what we file for the DSM  
19 programs.

20          Q.       And I just wanted to -- again, follow up with  
21 some cross from Ms. Brown yesterday. You mentioned  
22 yesterday that you were looking to -- she asked you about  
23 the definition for LMI.

24          A.       (Witness Goff) Yes.

25          Q.       And you answered that you hadn't fully

1 decided how you were going to define that, but you  
2 mentioned the possibility of trying to expand the program  
3 to increase eligibility and to potentially -- going up to  
4 304 percent of federal poverty level; is that correct?

5 A. (Witness Goff) That's correct. That's  
6 specific to our EASE program and so --

7 Q. It's just to the EASE?

8 It's not to the other programs; just to EASE?

9 A. (Witness Goff) That's right. HopeWorks is a  
10 501(c)(3) so we can't dictate to them what their income  
11 qualifications will be. But as we go through an RFP to  
12 select an implementer for EASE -- make sure I said that.  
13 HopeWorks is a 501(c)(3).

14 Did I say that correctly?

15 Q. Yeah. Right.

16 A. (Witness Goff) And then EASE is the one that  
17 we're working to expand the definition of that income  
18 eligibility.

19 Q. Okay. So it would be the Georgia Power EASE  
20 program only, not -- so HopeWorks would not -- what you  
21 define for the EASE program would not apply to HopeWorks?

22 A. (Witness Goff) No. Because they're a  
23 501(c)(3), we can't dictate those eligibility requirements  
24 to them. So what we have proposed is the expansion to low  
25 to moderate income in our EASE program.

1           Q.     Okay.  And so in the -- so how will you --  
2     what will your -- marketing, I guess, is the question.

3                     How will you work to expand the program to  
4     serve those additional customers?

5           A.     (Witness Goff) So we will go through an  
6     RFP to select an implementer for these programs.  And the  
7     caps on EASE and HopeWorks are designed to be set at  
8     \$5,000 per home.  We are expanding the measures.  So  
9     there's lists of all the measures are included in our  
10    filing.

11                    So we've expanded the measures that are  
12    including -- that are included in those programs.  And  
13    like I've mentioned, we expanded, as we've been  
14    discussing, the eligibility requirements for EASE itself.

15           Q.     And how many more customers do you think  
16    you'd be able to serve?

17           A.     (Witness Goff) It's like 17 times more homes  
18    than what we're implementing today.

19           Q.     And then keeping in that vein, let's talk  
20    about EASE and I'll -- so the other new program that you  
21    have, including the pilot and I have a couple of questions  
22    about the CSS, PS -- I agree with Bob.  We need a -- we  
23    need a better name.

24           A.     (Witness Mallard) We're taking suggestions.

25           Q.     EASE is such a nice name.  So, you know,

1 something -- it would be good to have a name so it's  
2 easier to call it.

3 But, you know, with -- when EASE started up  
4 when it was a new program three years ago, there was a  
5 real slow period of time to ramp it up. Obviously there  
6 were supplier issues back then, other things. You know,  
7 pipe -- you know, some related to the end of the pandemic.

8 But, you know, what are -- what plans for  
9 some of these other new programs -- because you've got  
10 several new programs in this filing -- to have -- ramp  
11 things up faster than you were able to do with the EASE  
12 program?

13 A. (Witness Goff) So in the DSM application  
14 there's one new program, the residential products program.  
15 And so we would go through a third-party RFP to select an  
16 implementer for that and then try to hit the ground  
17 running, sharing detailed plans with staff for input prior  
18 to going to market.

19 I don't know if there's other programs --

20 A. (Witness Mallard) Yeah. I can speak to the  
21 residential solar plus storage program. And as we've  
22 discussed, the plan is to use an implementation partner to  
23 roll that program out. And the expectation would be a  
24 partner that has some experience with these type of  
25 programs in other -- in other states and other

1 jurisdictions. And so leveraging their experience will  
2 help us be able to roll out the program just as quickly as  
3 we can.

4 I'll make one more comment related to the LMI  
5 back to the Solar Plus Storage program. The conversation  
6 yesterday was related to what potentially could be an LMI  
7 limit. I just want to reiterate we want to make sure that  
8 we are making our program compatible with other sources of  
9 funding that potentially could be used, like the Solar for  
10 All, like maybe potentially corporate sponsorship. And so  
11 the development of any LMI parameters would be in  
12 consideration of what might be allowable or required by  
13 some of those other plans.

14 Q. Okay. Sure. And you actually anticipated  
15 one of my questions, which is that you do -- you do expect  
16 to coordinate with Solar for All?

17 A. (Witness Mallard) Yes.

18 Q. I'm assuming GEFA?

19 A. (Witness Goff) Yes.

20 Q. And what about some of the partners in the  
21 broader income-qualified space, including some of the  
22 discounts -- working with HopeWorks and Salvation Army and  
23 some of those other partners who are working directly with  
24 the LMI customers that you might be targeting?

25 A. (Witness Goff) Absolutely. The company, the



1 target, we work collaboratively with GEFA, with community  
2 action agencies, with -- I mean, folks all across the  
3 state. We want these programs to be successful and we  
4 really want to benefit customers in the most need. So  
5 absolutely, yes.

6 Q. And then just looking at your testimony on  
7 page 40, the bottom lines of that question on that page,  
8 lines 20 to 26 -- and you talked some with Mr. Sherrier  
9 about this earlier. But this is where you're talking  
10 about the -- the potential --

11 A. (Witness Phillips) What page, Ms. Coyle?

12 Q. Page 40, lines 20 to 26.

13 You talked about, like, a check-in approach.  
14 That's the paragraph -- it looks like Mr. Beppler wants --  
15 wants to answer that one. How do you -- how will you best  
16 identify opportunities to scale the program?

17 When -- you know, what are you looking for  
18 when you say, "You know, this is going so well," maybe a  
19 year and a half, two years into it. What's the mechanism  
20 by which you would do this check-in and potentially go  
21 from pilot to full program sooner than later?

22 A. (Witness Beppler) Yeah. I think one of those  
23 is if we reach the target that we have identified, in  
24 terms of enrolled megawatts for it, conditions of change  
25 substantially such that it would require an update.

1                   So, you know, as we're implementing these  
2 programs, we -- as Witness Goff mentioned, we want them to  
3 be successful. So if there's changes in the industry, in  
4 the marketplace, in technology, that allow new  
5 opportunities, then we would certainly seek the feedback  
6 of the Commission on any updates.

7                   Q.       Okay. And I apologize. I meant Dr. Beppler  
8 I apologize.

9                   A.       (Witness Beppler) No worries.

10                  Q.       So continuing there, do you have -- and going  
11 back to the previous question, have you identified a  
12 target percentage that you want to be in that LMI  
13 category?

14                  A.       (Witness Beppler) We've not identified a  
15 specific target percentage or carve-out. You know, one of  
16 the things that we have been doing is working and having  
17 conversations with those other sources of funding to make  
18 sure that we can sort of identify opportunities for a  
19 collaboration there, such that if -- if they're installing  
20 solar through some of those other channels, then we could  
21 partner to, you know, encourage the adoption of storage  
22 resources alongside those -- those assets.

23                  Q.       So in making -- in doing that analysis, I'm  
24 wondering if -- while you're considering the possibility  
25 of scaling up, if some segments are performing better than

1 others -- let's say, that the LMI segment is not  
2 performing as well as other customers -- would you take  
3 some additional steps to try to identify and address  
4 reasons for that -- that gap?

5 A. (Witness Beppler) Yes. I think part of the  
6 intent in proposing this pilot with two participation  
7 channels is that while we got a lot of robust feedback in  
8 the development, we know that, you know, we might not get  
9 everything right exactly out of the gate. And so we'll  
10 continue to learn and adapt from this implementation to  
11 inform future program design.

12 Q. And you could make changes realtime?

13 A. (Witness Beppler) I don't know if I want to  
14 commit specifically to realtime. But as we get new  
15 information, we continue to update our program designs,  
16 yes.

17 Q. Well, and going back to EASE and the early  
18 days of EASE, there did need to be some tweaks, you know,  
19 without necessarily even going back to the Commission.

20 Are you-all going to have the flexibility  
21 to -- I'm not saying you're not going to inform the  
22 Commission. I certainly assume you're going to inform the  
23 demand-side mandatory group like when I was in staff here.

24 But, you know, if you identify some real  
25 challenges, maybe it's in the marketing, you can take

1 steps earlier in the process to try to correct those, like  
2 you did with EASE, is that right?

3 A. (Witness Beppler) Yes. I think what we've  
4 outlined here is -- is a framework. There are some  
5 details that we will still need to work through with the  
6 implementation partner that we select to go and implement  
7 these programs. So certainly as we come across any future  
8 barriers to implementation, we'll try and make adjustments  
9 or changes as necessary to make sure that these programs  
10 are successful.

11 MS. COYLE: Great. Thank you. No further  
12 questions.

13 Thank you. And I did it.

14 CHAIRMAN SHAW: Thank you, Ms. Coyle.

15 All right. Y'all, we're going to break.  
16 We're kind of -- got a long way to go. So we're  
17 going to break for -- for, let's say, 50 minutes  
18 and come back in at 1:20. And -- well, let's say  
19 1:25. Let's try to get in at 1:25.

20 And to just give you a little info on what  
21 we're thinking, I think we're going to be going  
22 probably late tonight and I'm considering maybe --  
23 and I'll finalize this when we come back from  
24 lunch. Maybe taking like a 30-minute, 45-minute  
25 break somewhere around 5:30, 6:00 so everybody can

1 get a little snack, DoorDash if you need to,  
2 whatever. But we'll see you-all at 1:25.

3 (A recess was held.)

4 CHAIRMAN SHAW: Okay. Thanks to everybody.  
5 I hope everybody had a nice little quick lunch  
6 break. We'll get started again.

7 Before we do move on to the Panel, was there  
8 any housekeeping matters to take up at this time?

9 MS. WHITFIELD: Chair, I do have one  
10 housekeeping matter. I wanted to let you know that  
11 GIPL and Southface have worked with Georgia Power.  
12 Georgia Power has gone back to the independent  
13 evaluator of the pending All-Source RFP to discuss  
14 with them our request yesterday about information  
15 about the types of resources that are currently  
16 still in the All-Source RFP.

17 And Georgia Power and the independent  
18 evaluator and staff have all agreed to provide the  
19 megawatts by fuel type --

20 CHAIRMAN SHAW: Okay.

21 MS. WHITFIELD: -- of the resources that  
22 have -- that are still in the competitive tier of  
23 the All-Source RFP.

24 CHAIRMAN SHAW: Okay. Well, good. Thank  
25 y'all for all getting together on that.

1 MS. WHITFIELD: And we really appreciate  
2 their quick work on that.

3 CHAIRMAN SHAW: Yep. Thank y'all. Hopefully  
4 that same spirit will continue today.

5 All right. We'll pick up where we left off.  
6 Panel, I'll remind you that you're still under  
7 oath.

8 Georgia Solar Energy Industries Association.

9 MR. JONES: Chairman, Commissioners, Steven  
10 Jones, Matthew McKagen on behalf of the Georgia  
11 Solar Energy Industries Association.

12 CROSS-EXAMINATION

13 BY MR. JONES

14 Q. Hello, panel.

15 A. Hello.

16 Q. Again, my name is Steven Jones. Thank you  
17 for the opportunity to ask you some questions today.

18 A. (Witness Mallard) Sure.

19 Q. I will address my questions generally to the  
20 panel, but if somebody in particular -- maybe one person,  
21 I'm thinking -- wants to answer, let me know and feel free  
22 to answer.

23 Just some foundational questions here. The  
24 IRP, you would agree, recognizes the need for additional  
25 clean energy?

1           A.       (Witness Mallard) The IRP recognizes the need  
2 for -- to procure a portfolio of resources to serve our  
3 customer needs. It's made up of dispatchable capacity  
4 resources, as well as energy-benefiting resources of --  
5 that are renewable, yeah.

6           Q.       Do you have a specific amount that you would  
7 like to achieve by a specific date?

8           A.       (Witness Mallard) So we talked about the  
9 modeling a little bit yesterday. The Aurora model now  
10 does have the capability to select energy-benefiting  
11 resources to supplement the dispatchable capacity  
12 resources. The Aurora model indicates that an additional  
13 4,000 megawatts by 2035, if approved at economical prices,  
14 would provide benefits for customers.

15          Q.       And the Aurora model calls for that because  
16 it sees that renewables can be cost-effective and provide  
17 value to customers?

18          A.       (Witness Mallard) That's right. Again, if  
19 procured at economical prices.

20          Q.       As well as -- and you've talked about this a  
21 lot -- the sustainability goals of certain customers?

22          A.       (Witness Mallard) Yeah. We're definitely  
23 informed by customer needs and procuring renewable  
24 resources allows us to offer subscriptions to those  
25 customers.

1           Q.     And I know you've answered some questions  
2 about the RCBF framework and the replacement of the -- or  
3 the addition of the locational value of transmission --

4           A     (Witness Mallard) Uh-huh.

5           Q     -- or distributed resources; is that correct?

6           A.     (Witness Mallard) Yeah. It's the -- it's a  
7 change in the avoided transmission component that we're  
8 going to apply as part of the evaluation of distributed  
9 generation RFP resources.

10          Q.     And you answered some questions previously in  
11 the cross-examination about how that locational value was  
12 determined. So I won't go back into that.

13                 But, generally, that recognizes that what --  
14 that generation as close to load as possible is important;  
15 correct?

16          A.     (Witness Mallard) Yeah. Placing generation  
17 where it is most valuable on the system due to proximity  
18 of load or due to existing load flows and grid  
19 infrastructure, all of those come into play as part of  
20 that evaluation.

21          Q.     Where do you see concentrations of load on  
22 your system?

23          A.     (Witness Mallard) Generally in and around  
24 Metro Atlanta and North Georgia.

25          Q.     Where do you see concentrations of



1 large-scale utility solar in Georgia?

2 A. (Witness Mallard) Generally South Georgia,  
3 more specifically Southwest Georgia.

4 Q. And why is that?

5 A. (Witness Mallard) Solar has -- has located in  
6 Southwest Georgia and South Georgia in general because of  
7 the characteristics of the land. It's generally flat.  
8 It's generally easy to -- to turn into solar -- solar  
9 facilities.

10 CHAIRMAN SHAW: Just don't say we're cheap.

11 MR. MALLARD: I won't say -- don't -- I  
12 wouldn't do that.

13 And then, traditionally, access to headroom  
14 on the transmission system. What's changed a  
15 little bit now is focus on land use and a  
16 tightening of that headroom to access to the  
17 transmission system.

18 BY MR. JONES

19 Q. So would you say, as a general rule of thumb,  
20 the -- as we decrease the size of the solar system, it's  
21 easier to get it closer to load?

22 A. (Witness Mallard) I'd say as you decrease the  
23 size, it's easier to find parcels of land where you can --  
24 where you can place the solar without -- without incurring  
25 additional cost or mitigations. You could still -- a

1 small facility could still be placed in a location that is  
2 not advantageous.

3 A. (Witness Beppler) But I -- I will just add  
4 that as you decrease the size, you also lose some of the  
5 economies of scale that benefit the -- the costs of those  
6 resources.

7 Q. Which is one of the great reasons why this  
8 Commission's directed RFPs, right, is because you then  
9 have companies bidding projects in that ensure that there  
10 is a value provided to customers; correct?

11 A. (Witness Mallard) Yes. Correct.

12 Q. And the Renewable Integration Study, to that  
13 end, recognizes that the company and the system can accept  
14 significant increases in solar penetration while  
15 maintaining reliability; is that right?

16 A. (Witness Mallard) That's true.

17 Q. And part of that is the integration of  
18 storage; correct?

19 A. (Witness Mallard) That's correct.

20 Q. But storage doesn't always have to be paired  
21 with solar; right?

22 A. (Witness Mallard) No, no. It doesn't have to  
23 be paired with solar. There are some benefits from  
24 colocated storage, but stand-alone storage placed on the  
25 system also can offer those benefits.

1 Q. What are those benefits?

2 A. (Witness Mallard) The ability to have  
3 dispatchable capacity that can -- that could be dispatched  
4 to meet the generation needs of the system.

5 Q. And reduces curtailment?

6 A. (Witness Mallard) It -- it could. It depends  
7 on the relationship of the amount of storage and the  
8 amount of solar on the system, and also the location of  
9 both. Additional storage could have the -- could offer  
10 reduced curtailments of solar on the system.

11 Q. Would you say as storage becomes more  
12 prevalent in solar systems that the company is learning  
13 lessons?

14 A. (Witness Mallard) Yes. We learn lessons  
15 every -- every procurement, every cycle, every -- every  
16 facility that interconnects to the system.

17 Q. Every IRP the company learns lessons; right?

18 A. (Witness Mallard) Yes.

19 Q. And developers learn lessons; right?

20 A. (Witness Mallard) That's true.

21 Q. So with every IRP, with every RFP, with every  
22 iteration, we're taking incremental steps forward; right?

23 A. (Witness Mallard) I believe that's true.

24 Q. And that's an important process; right?

25 A. (Witness Mallard) That's the fundamental part

1 of the renewable success that we've had in this state is  
2 we continue to try to improve our procurements, to make  
3 them the most beneficial for the customers that we serve  
4 and make sure that the procurements work for all the  
5 stakeholders involved.

6 Q. Have you seen -- has the company seen more  
7 storage paired with utility-scale solar or with  
8 distributed solar?

9 A. (Witness Mallard) In the distributed RFPs  
10 heretofore, they've been solar only. There has been no  
11 procurement of storage through DG RFPs. We see storage  
12 installed at customer sites, at customer locations, but  
13 there has not been storage -- there has not been the  
14 ability for storage to be paired with solar through the DG  
15 procurements.

16 Q. And any other type of resource procurement  
17 is -- does the company have any PPAs for DG solar paired  
18 with storage?

19 A. (Witness Mallard) Other than -- no. I don't  
20 think there's any PPAs that are connected at distribution  
21 voltage that are paired -- solar PPAs that are paired with  
22 storage.

23 Q. So going back to the importance of learning  
24 lessons, there's still a lot to learn about pairing  
25 batteries with DG solar; right?

1           A.       (Witness Mallard) Yes.

2           Q.       Do you think it would be productive to have a  
3 pilot program for solely DG solar so that the company  
4 could learn lessons from that?

5           A.       (Witness Mallard) No. I wouldn't propose  
6 that at this time. I think what we proposed to add  
7 storage to are successful DG RFPs will offer the  
8 opportunity to bring those valuable storage resources onto  
9 the system and be able to learn from those types of  
10 interconnections and procurements.

11          Q.       So there wouldn't be value in isolating  
12 storage and solar in a separate pilot so you can study  
13 that independently from other solar resources that might  
14 not be paired with storage?

15          A.       (Witness Mallard) Theoretically there could  
16 be, but that's not what we proposed.

17          Q.       Okay. But, theoretically, there could be  
18 benefits to that -- such a pilot?

19                   What things could you learn from such a  
20 pilot?

21          A.       (Witness Mallard) Just the -- some of the  
22 basics that we just talked about. The nature of the  
23 interconnection, the contractual requirements, the ability  
24 of the market to actually deliver on these resources.

25                   Some of the feedback we've gotten from the

1 marketplace is that storage can be hard to come by for --  
2 especially for small installations. And so those are  
3 among many of the learnings that we would -- we expect to  
4 have and expect to get through this proposed modification  
5 to the DG RFP to add storage.

6 Q. So through the DG RFP or a separate pilot,  
7 you would learn things such as how those systems operate  
8 with flexibility; correct?

9 A. (Witness Mallard) Sure. How the systems can  
10 operate and how the company can dispatch them and what  
11 their response is like, what that value is offered to the  
12 system. That is one of the learnings we expect to get  
13 through the -- through the DG RFP.

14 Q. We can sum that up as flexibility and  
15 control; right?

16 A. (Witness Mallard) Sure.

17 Q. I'd like to ask some questions now about  
18 your -- the company's existing renewable programs and  
19 RFPs. Let's start with the customer-sided  
20 solar-plus-storage program.

21 That arose out of the 2023 IRP Update; right?

22 A. (Witness Mallard) That's correct, yes.

23 Q. And you've had a number of questions about  
24 the specifics of the program and those thresholds. I  
25 won't rehash those. I do want, if you could, though, go

1 back and give me an overview of the pricing options  
2 because there are two different buckets in that program;  
3 right?

4 And so help me understand the difference  
5 between the pricing in the two buckets.

6 A. (Witness Beppler) Sure. So, Commissioners,  
7 the two buckets, as counselor referred to it, are channels  
8 for participation. One is the company-directed. That's  
9 where there will be a large up-front incentive of \$750 per  
10 kW for participants who agree for a 10-year contract for  
11 utility control over those assets.

12 In the customer-directed channel, there is an  
13 annual enrollment of \$15 per kW up front, and then an  
14 ongoing pay-for-performance incentive of \$1.50 per kWh  
15 during utility-called events.

16 Now, let me also say there is a particular  
17 incentive for the LMI and MUSH segments that we discussed  
18 a little bit. So in the company-directed option, that  
19 up-front incentive for LMI and MUSH customers would be  
20 \$1,000 per kW. And in the customer-directed option, that  
21 annual enrollment incentive would be \$45 per kW.

22 Q. So in the company-directed model, there's no  
23 perform-based incentive; it's just that up-front payment?

24 A. (Witness Beppler) That's correct.

25 A. (Witness Goff) And that's because the

1 utility -- the company would be directing the use of that  
2 battery during that time.

3 Q. But in either -- in both buckets, or in both  
4 what you call participation --

5 A. (Witness Beppler) Channels, pathways.

6 Q. Pathways, okay. As long as we're on the same  
7 page. If -- with the ongoing performance incentive, the  
8 capacity values decrease to 75 percent; correct?

9 A. (Witness Beppler) In both models the  
10 incentive was determined using that shared savings  
11 mechanism where 75 percent of the projected avoided costs  
12 are reflected in the incentive to participating customers.

13 Q. So you're not paying full avoided costs for  
14 the capacity of the batteries?

15 A. (Witness Beppler) That's correct. And the  
16 design there is to ensure that nonparticipating customers,  
17 those who might not be able -- or eligible to participate  
18 for one reason or another are still deriving value and  
19 benefit from the company offering this program.

20 Q. But in the performance incentive, that  
21 15kW -- \$15 per kW, that's an up-front, one-time payment?

22 A. (Witness Beppler) No. That would be an  
23 annual enrollment incentive.

24 Q. So it seems like this program recognizes that  
25 there's certainly capacity value for battery storage;



1 correct?

2 A. (Witness Beppler) Yes. That's fair.

3 Q. But the company thinks that that has to be  
4 discounted from the avoided cost?

5 A. (Witness Beppler) The discount, as I just  
6 described, is to ensure that there's benefits that accrued  
7 in nonparticipating customers, as well. And it takes into  
8 account that there's additional costs associated with  
9 implementation and administration of these programs.

10 Ultimately, we want them to be cost-effective  
11 as a whole. And so the benefits need to exceed the total  
12 cost not just of the incentives, but also the  
13 implementation and program administration costs.

14 A. (Witness Mallard) I'll just contrast that to  
15 how we procure it through competitive RFPs where we cover  
16 a lot of the administrative costs of the program through  
17 bid fees, winner's fees, other payments for the  
18 interconnection guidance and other things like that.

19 This program is going to rely on that  
20 discount of the total capacity value to cover some of the  
21 costs of administering the program. Again, trying to make  
22 sure we're recovering the cost from the cost causers.

23 Q. Has the company done calculations to ensure  
24 that the 25 percent will only cover program costs to the  
25 administration?

1           A.       (Witness Beppler) No. I don't think it's  
2 specific to just covering those costs. Like -- like we've  
3 said a couple of times, the intent is that benefits accrue  
4 not just to participating customers, but also to all  
5 customers from offering these programs.

6           Q.       So other resources that are paid at avoided  
7 cost is -- is there a discount on that avoided cost for  
8 administration of those resources?

9           A.       (Witness Beppler) I'm not sure I follow the  
10 question.

11          Q.       So if -- if I have a resource, let's just say  
12 it's a QF or something else, is there -- it's paid avoided  
13 cost, is there payment discounted for administration?

14          A       (Witness Beppler) No. And those are  
15 fundamentally different structures. I think this shared  
16 savings approach is consistent across our suite of  
17 customer programs. So we see that in the DER customer  
18 programs. There's similar mechanisms with other certified  
19 DSM programs. But QFs and other structures that Witness  
20 Mallard can speak more to are a very different structure.

21          A.       (Witness Mallard) Yeah. And we -- we do  
22 collect administrative costs from QFs. QFs are going to  
23 pay monthly administrative fees, monthly metering fees.  
24 Proxy QFs that are procured through capacity solicitations  
25 pay similar fees -- similar bid fees and winner's fees

1 that we collect from other RFP participants. So just a  
2 difference in the mechanism of covering the administrative  
3 costs for these programs.

4 A. (Witness Beppler) And, Commissioners, I'll  
5 just highlight, in the design of these incentives, we did  
6 do some benchmarking across peer utilities. We think  
7 these are competitive incentives to encourage adoption.  
8 Those incentive levels should enable the company to  
9 revolver roughly a third of the up-front costs of these  
10 storage assets.

11 So we think that's a sufficient incentive to  
12 help move the market and motivate additional adoption of  
13 these technologies.

14 Q. Is this -- this pilot's really about  
15 addressing system peaks; right?

16 You dispatch the batteries to reduce peak?

17 A. (Witness Beppler) I think that is one of the  
18 primary use cases, yes.

19 Q. What are the other use cases?

20 A. (Witness Beppler) I think as we continue to  
21 get familiar with these resources, there's -- there's  
22 other value stacks that we can explore, as far as  
23 ancillary services and -- and reserves and things of that  
24 nature.

25 Being able to unlock some of those value

1 streams is predicated on having control of these assets.  
2 And so Witness Robinson in the previous Panel talked about  
3 the investment in utility-centric DERMS. And that's one  
4 of the technology platforms that will enable us to  
5 potentially unlock some of those future value streams.

6 A. (Witness Mallard) And one other value stream  
7 is the value that accrues to the host customer through  
8 resiliency. And so customers that want to host batteries  
9 at their site likely also are driven by a resiliency need.

10 A battery is still a premium resource. A  
11 customer-sided battery is still a premium resource.  
12 Customers who are interested in their own resiliency  
13 needs, what this program offers is the ability to get more  
14 value. Not just have the battery in reserve for the few  
15 hours a year when there may be a power outage, but to be  
16 able -- for the company to extract that value, share it  
17 with other customers, and reduce the total cost to  
18 participate by those customers.

19 Q. In terms of resiliency, in both buckets or  
20 both opportunities or channels, whatever we're calling  
21 them, customers would experience that resiliency benefit?

22 A. (Witness Beppler) Yes.

23 Q. In terms of when you're calling those  
24 batteries for use, in the customer-directed they had the  
25 option to opt out. But in the company-directed, they

1 would not have the option to opt out; correct?

2 A. (Witness Beppler) That's correct.

3 Q. Do you think the company is fairly good at  
4 being able to predict when those peaks are that they'll  
5 want to call on those resources?

6 A. (Witness Beppler) Yes. I -- I do think we  
7 will continue to get the best information available. So  
8 we do have currently approved with our DERMS capability  
9 the option for visibility and predictability. So those  
10 will help understand when the peaks are occurring on the  
11 system.

12 One of the challenges in the  
13 customer-directed model -- and we spoke a little bit  
14 yesterday about the ELCC associated with that -- is that  
15 it requires 24-hour advanced notice or maybe in an  
16 emergency situation, 75.

17 So the requirements to give customers  
18 advanced notification, there could be some variation in  
19 when the exact peak occurs. But generally, yes, the  
20 company is good at understanding and predicting when those  
21 peaks are going to occur.

22 Q. And really this whole program is about  
23 getting resources closer to load; right?

24 Resources that you can dispatch?

25 A. (Witness Beppler) I think the intent of the

1 program is to unlock additional value associated with  
2 dispatchable resources and encourage those to be used in a  
3 manner that aligns participating customer incentives with  
4 the benefits to all customers.

5 Q. You think --

6 A. (Witness Goff) Participating customers get a  
7 benefit and then all other customers get the benefit of  
8 procuring that capacity for less than we otherwise would.

9 Q. So do you think -- let's drill down on that  
10 for a second actually.

11 So you're going to be able to procure energy  
12 at less than you otherwise would. So it's less than what  
13 your avoided cost would be?

14 A. (Witness Beppler) Correction. Sorry. I  
15 didn't mean to interrupt you. But you said energy and  
16 Witness Goff said capacity. I think there's an important  
17 distinction there.

18 Q. Please elaborate.

19 A. (Witness Beppler) The batteries themselves  
20 are based on avoided capacity values. So that's really  
21 the dispatchable nature of those resources.

22 Q. Do you think you'd be able to predict those  
23 peak or those call events within 24 hours in advance?

24 A. (Witness Beppler) With -- with a reasonable  
25 degree of accuracy, yes.

1 Q. Two days in advance?

2 A. Again, this is not my area of expertise. I  
3 think -- but we do have realtime operations who are  
4 constantly monitoring and forecasting the -- the needs of  
5 the system. Obviously there can be events that change  
6 those needs that might happen very quickly. And that is  
7 the value of these dispatchable resources is to react in  
8 near realtime such that if you have changes in either  
9 generation resource availability, a cloud comes over and a  
10 lot of solar drops off the system, or loads suddenly  
11 increase because you have a cold winter morning, you need  
12 the ability to operate these things in a dispatchable  
13 nature to provide that full value.

14 A. (Witness Goff) And as a data point, we do  
15 offer notification for existing thermostat DR program. So  
16 it's typically 24 to 48-hour notice there.

17 Q. So there will be realtime communication  
18 between the company and those resources?

19 A. (Witness Beppler) Yes. Through an  
20 implementation partner and a grid-edge DERMS platform, as  
21 it's sometimes described.

22 So Witness Goff mentioned our existing  
23 residential DR program. Through that we use the grid-edge  
24 DERMS to communicate with all of those potentially  
25 thousands of individual devices. In a company-directed

1 channel, we anticipate that communication being very near  
2 realtime.

3 In the customer-directed channel, the  
4 individual communications will be more sporadic and have  
5 maybe some slightly advanced notice required. And that's  
6 reflected in the differing incentive calculations that we  
7 talked through yesterday.

8 Q. And that DERMS contractor, that program, the  
9 OS, that's a new program; correct?

10 A. (Witness Beppler) Can you -- can you specify  
11 which DERMS --

12 Q. Recently acquired.

13 A. (Witness Beppler) You're -- you're referring  
14 to the utility-centric DERMS?

15 Q. Correct.

16 A. (Witness Beppler) Yes. That is currently in  
17 the implementation phase. So it was select- -- the vendor  
18 was selected recently and now it's going into  
19 implementation.

20 Q. Would that be the same that's used -- would  
21 that be the same system that's used to dispatch batteries  
22 attached to solar?

23 A. (Witness Beppler) Depending on the scale of  
24 those resources. So if you're dealing with a customer  
25 program like -- like the pilot that we're describing where



1 you have potentially thousands of very small-scale  
2 resources, you might have an additional grid-edge DERMS,  
3 which plugs into that larger utility-centric DERMS system,  
4 which is communicating across a variety of asset classes  
5 and channels.

6 If you're talking about more of the DG-sided  
7 or scale solar-plus-storage systems, those might plug  
8 directly into your grid-centric DERMS.

9 Q. So it's -- the holistic idea here is then  
10 that there's significant opportunities for the company to  
11 learn about deployed batteries, either stand-alone or  
12 paired with solar; correct?

13 A. (Witness Beppler) Yes. The intent of this  
14 pilot is to gain learnings about the technology, as well  
15 as the customer behavior when dealing with these colocated  
16 assets.

17 Q. In the company-directed model, is there an  
18 outer limit on how many events the company could call?

19 A. (Witness Beppler) There's not. In fact, we  
20 envision that there may be up to daily discharge that can  
21 be good for the health of the batteries, but also helps  
22 additional benefits accrue to both participating and  
23 nonparticipating customers.

24 Q. If you're in the -- but if I've got a  
25 battery, right, and it's -- and the company is calling on

1 it and I don't know when it's going to be called, as a  
2 customer, then I don't have the certainty of knowing how  
3 much I can rely on that battery or when because the  
4 company could call it when I may need it; right?

5 A. (Witness Beppler) Well, we have committed to  
6 reserving 20 percent of the battery capacity for  
7 participating customer use. So, in other words, we would  
8 never discharge the battery below that 20 percent  
9 threshold to ensure that there's always some resiliency  
10 benefit available for our customers.

11 Q. But there's a cost to the customer each time  
12 it's discharged then; correct?

13 A. (Witness Beppler) I would disagree.

14 Where is the cost?

15 Q. The customer is losing the ability to utilize  
16 their battery should the company direct that it be used?

17 A. (Witness Beppler) The customer received a  
18 750- or \$1,000-per-kW incentive to participate in the  
19 program. And part of that contractual relationship is  
20 that that benefit was provided to the participating  
21 customer in exchange for the use of that battery.

22 A. (Witness Mallard) Let's contrast the two  
23 channels again because I want to make sure we're not --  
24 we're not mixing. The company-directed gets the larger  
25 up-front incentive. The company gets exclusive dispatch

1 rights down to 20 percent. It will always -- never go  
2 below 20 percent. That resource can be used in times of  
3 grid outage for resiliency for the customer.

4 But if that value proposition doesn't match a  
5 customer's needs, then the customer-directed option  
6 exists. Under that option, a lower up-front incentive,  
7 but the dispatch of the battery is in the control of the  
8 customer.

9 The company will send the dispatch signal.  
10 The customer can opt out. And so if a customer envisions  
11 a need for whatever that is for the battery, then the  
12 customer would simply opt out. It's pay for performance.  
13 So if they discharge, they'll get the credit. If they  
14 don't, they won't. And then they can use the battery for  
15 themselves. So that's the -- sort of the purpose of  
16 having both of the participation channels.

17 Q. Absolutely. And I understand. But what I  
18 hear is that with the customer-directed, it's a lot easier  
19 for the customer to determine the value of that system to  
20 them as opposed to the company-directed. Because with the  
21 company-directed, they have no way of knowing up-front  
22 when they're analyzing that value proposition of how often  
23 it's going to be called.

24 A. (Witness Mallard) I don't think that the  
25 customer would be counting on using the battery for

1 anything, other than resiliency in a grid outage  
2 circumstance. A battery is different even from a  
3 thermostat program or others.

4           There's not a lot of sensible difference for  
5 a customer if the battery is being discharged or not.  
6 Their electrical loads are met by a combination of grid  
7 power, solar power, and the battery power. And so if the  
8 battery is called to dispatch, I would -- I would  
9 postulate that most customers are not even going to know  
10 that -- they're not even going to know that it's being  
11 discharged. They're not going to notice any loss in value  
12 from the battery being discharged.

13           Q.     Unless there's an outage immediately after  
14 the call event?

15           A.     (Witness Mallard) If there's an outage  
16 immediately after the call, again, the battery wouldn't  
17 have been discharged below 20 percent. They can at least  
18 count on that amount of storage remaining.

19           Q.     So all -- so in the company-directed, as a  
20 customer all I can really count on is that 20 percent  
21 because I don't know if I am ever going to have anything  
22 above that in the event of an outage?

23           A.     (Witness Beppler) Just because the lower  
24 threshold is 20 percent doesn't mean that the battery will  
25 only have 20 percent state of charge at all times. There

1 is going to be wide portions of time between those company  
2 discharge events where the battery will likely be much  
3 closer to full capacity.

4 And, Commissioners, I want to remind you,  
5 this was a -- an option that was recommended in both  
6 previous intervenor testimony, as well as in feedback that  
7 we got from the collaboration sessions here at the  
8 Commission. There's a number of other utilities who are  
9 operating a similar model that's been successful and has  
10 had very high customer satisfaction rates.

11 So, again, it's an option available to  
12 customers. If it doesn't meet the needs of a specific  
13 customer, there are other participation options available  
14 for them.

15 Q. Understood. So when you're -- when the  
16 company is looking at these two options, and from a  
17 planning perspective, how are you going to treat the  
18 different participation channels differently from a  
19 resource dispatch perspective?

20 A. (Witness Beppler) Sure. So I think as I  
21 mentioned a little bit yesterday, we envision the  
22 customer-directed model looking more similar to the demand  
23 response programs where it's discreet event calls. The  
24 company-directed model will look more similar to  
25 utility-scale battery assets, in terms of the operation

1 and then the planning megawatts that are reflected for  
2 those assets.

3 A. (Witness Goff) But both will be reflected on  
4 the company's resource ledger to reduce what we would  
5 otherwise be planning for to the benefit of all customers.

6 Q. Let's switch gears. Let's talk about the  
7 Customer-Connected Solar Program. That was 25 megawatts  
8 out of the 2019 IRP?

9 A. (Witness Mallard) That's right.

10 Q. And you've got one customer on that program?

11 A. (Witness Mallard) One customer, two phases of  
12 installation. A megawatt and a half or so at that  
13 location.

14 Q. And this IRP seeks to expand that program;  
15 right?

16 A. (Witness Mallard) We want to expand the  
17 program. We want to do a couple of -- probably most  
18 important things, add the opportunity for customers to  
19 install battery storage for a lot of the same reasons that  
20 we just talked about. Also expand the sizing up to  
21 6 megawatts.

22 A couple other smaller improvements,  
23 including not allowing new customers to participate.  
24 Currently it has to be an existing customer where the  
25 company has the ability to have -- to look at the

1 customer's usage.

2           So we feel like if we can make some of these  
3 changes, it will make this program more attractive to  
4 customers and another option for larger customers who want  
5 to host solar and storage at their facility.

6           Q.     So out of the 25 megawatts, how many  
7 megawatts remain unallocated?

8           A.     (Witness Mallard) Twenty-three and a half,  
9 give or take.

10          Q.     When we're looking at solar across the  
11 system, you would agree that residential or rooftop is  
12 different than utility-scale?

13          A.     (Witness Mallard) The panels themselves are  
14 -- are the same. The way photovoltaic energy is converted  
15 from sunlight into electricity works the same. The nature  
16 of the installations, their efficiency, how they're -- how  
17 the energy gets to the system, those things are different,  
18 depending on the type of installation.

19          Q.     So we can -- can we break -- in terms of  
20 categories, we can look at residential solar, right, as  
21 one bucket?

22          A.     (Witness Mallard) Uh-huh.

23          Q.     Could we look at utility-scale as another?

24          A.     (Witness Mallard) Sure, sure. I might  
25 even -- I might even define them by interconnection. A

1 utility-scale interconnection is transmission generally.  
2 A DG project is distribution system interconnected. And  
3 then, further, we could break it down to customer-sided,  
4 which you might even divide into residential or commercial  
5 industrial.

6 A. (Witness Beppler) And further into  
7 behind-the-meter or in-front-of-the-meter.

8 Q. And they all have different attributes that  
9 you've got to plan for; right?

10 A. (Witness Mallard) They all provide -- they  
11 all provide solar energy to the system. Again, how it  
12 gets to the system, how much we can count on it, what the  
13 contribution is to avoided cost, avoided energy and  
14 capacity costs are different depending on the -- depending  
15 on the type of installation, but also the type of contract  
16 that the company has with the generator.

17 Q. In the IRP at page 102, I read that only  
18 17 percent of customer-sided solar is paired with storage?

19 A. (Witness Mallard) Let me rephrase that.  
20 We've got 17 percent of our solar installations that have  
21 storage now. I think that's a pretty good number.

22 Q. Fair enough. And I'm just trying to get  
23 metrics here.

24 What percentage of utility-scale is paired  
25 with storage?



1           A.       (Witness Mallard) I don't -- I'm not going to  
2 have that information in front of me.

3           Q.       Would you mind getting that information and  
4 getting back to me with it?

5           A.       (Witness Mallard) Sure.

6           Q.       Make a hearing request for it? Thank you.

7           A.       (Witness Mallard) Sure.

8           Q.       And what about stand-alone DG; do you know  
9 what percentage of that is paired with storage?

10          A.       (Witness Mallard) Stand-alone DG, again,  
11 currently those are solar-only procurements. There's no  
12 storage that's been included. That's one of the -- the  
13 basis of the change that we're proposing is to allow  
14 storage with DG facilities going forward.

15          Q.       And what about customer-sided?

16          A.       (Witness Mallard) Yeah. The 17 percent is  
17 the most recent number I have. I don't know that I could  
18 convert that into a megawatts or a number -- a number of  
19 customers. But we are seeing growing interest in  
20 customers installing storage along with solar at their --  
21 at their sites.

22          Q.       Let's talk about utility-scale RFPs for a  
23 minute. You're rolling unallocated or unfulfilled  
24 megawatts from the 2022-2023 utility-scale RFP forward?

25          A.       (Witness Mallard) The unprocured megawatts

1 from 2022-2023 rolled forward into the CARES 2023 RFP  
2 target, which was 2,875 megawatts.

3 Q. But what about the 2023-2024 utility-scale  
4 RFP; were there any unallocated or unfulfilled megawatts  
5 in that RFP?

6 A. (Witness Mallard) Make sure we're talking  
7 about the right ones now. We're talking about CRSP 1,  
8 CRSP 2, and then now CARES is the one that's currently  
9 going. So CRSP 1 was seeking 1,030, procured 970.

10 No. Seeking 1,000, procured 970. 1,030  
11 rolled forward. The 1,030, no resources were procured as  
12 part of that RFP.

13 Those 1,030 megawatts were rolled forward  
14 into the current CARES RFP. And that's part of why that's  
15 such a large target at 2,875 megawatts.

16 Q. If there are unfulfilled megawatts in CARES,  
17 will the company roll those forward?

18 A. (Witness Mallard) Traditionally that's been  
19 the Commission's decision. I would say that decision is  
20 most effectively made at the time that the RFP is issued,  
21 given all the information that we could gather at that  
22 time.

23 Q. If there are -- and the company's got RFPs --  
24 or it's got procurements of solar that it's seeking in  
25 this IRP; correct?

1           A.       (Witness Mallard) Correct.

2           Q.       If there are unfulfilled megawatts from those  
3 RFPs, will the company ask to roll those forward?

4           A.       (Witness Mallard) I think -- I think, again,  
5 that would be past precedent and the expectation. The  
6 exact nature of their request and how those would be  
7 allocated would be most efficiently made at the time of  
8 the RFP, taking into account the current conditions.

9           Q.       Are there unfilled megawatts from DG RFPs  
10 that the company previously issued?

11          A.       (Witness Mallard) Yes.

12          Q.       Can you tell me more about those?

13          A.       (Witness Mallard) Probably not quite as well  
14 as I could recite the utility-scale, but I can say DG RFPs  
15 out of the 2016 cycle procured just under 90 megawatts  
16 when the target was 150. So some megawatts rolled forward  
17 into the 2022 cycle.

18                   Again, about 85 megawatts procured then. So  
19 we issued the 2023 DG RFP with a target that was  
20 100 megawatts, plus the rollover. That RFP procured  
21 42-ish megawatts. Those additional megawatts rolled  
22 forward. And the current RFP we're seeking in the  
23 neighborhood of 250 megawatts.

24                   So in the DG, that -- again, without the  
25 specifics of the exact amounts, the unused megawatts have

1 rolled over and are -- currently were part of the target  
2 of the ongoing 2024 DG RFP.

3 Q. And will those unfulfilled megawatts in that  
4 RFP roll forward to future RFPs?

5 A. (Witness Mallard) I think that's a decision  
6 best made at the time with all the information that the  
7 company and the staff has in front of them. Past  
8 Commission precedent has been that unfilled megawatts be  
9 rolled forward.

10 Q. And the IRP recognizes that renewables are  
11 important and that a significant portion -- a significant  
12 addition of renewables to the system is -- is possible and  
13 needed; correct?

14 A. (Witness Mallard) Yes. That's -- that's what  
15 is the basis behind the case. We want -- we need to add  
16 more renewables to the system. They can provide benefits  
17 to all customers, subscription options for interested  
18 customers if procured at economical prices.

19 Q. And you previously testified that DG has a  
20 locational benefit?

21 A. (Witness Mallard) So, yes. New this time in  
22 the DG RFP is the company is applying the locational value  
23 differentiation as part of the transmission deferment  
24 portion of the RCB framework.

25 A. (Witness Beppler) And I just want to clarify.

1 It could be a benefit or a cost, depending on the specific  
2 zone that that DG facility is interconnecting in.

3 Q. Right. But given -- and the RF- -- and  
4 there's now a locational tool for selection of solar  
5 sites; correct?

6 A. (Witness Mallard) Help -- help me a little  
7 bit more.

8 Q. There's a locational map that Georgia Power  
9 has made available to help siting of distributed  
10 resources; correct?

11 A. (Witness Mallard) Yes. So -- yes. So for  
12 DG, there's the hosting capacity tool that provides a map  
13 showing Georgia Power's distribution facilities, provides  
14 guidance to developers and potential bidders as to which  
15 circuits provide the best location to site DG facilities.

16 Q. With all that, with the updates to the --  
17 with the updates to the RCBF framework, with the siting  
18 methodology, with the -- with the IRP's recognition that  
19 additional renewable resources are important, with the  
20 resource -- with the -- I'm sorry.

21 With the system study that recognizes  
22 additional resources could be added to the system, it  
23 naturally makes sense that we should roll forward any  
24 unfulfilled megawatts -- any unfulfilled megawatts from  
25 prior DG RFPs on a go-forward basis; correct?

1           A.       (Witness Mallard) I can't commit to that.  
2       What I can say is distributed generation is valuable to  
3       the system. Procurement sizes and targets are really  
4       important to make sure that we have successful RFPs. And  
5       so it would be up to the Commission to decide the  
6       disposition of unfilled megawatts. Again, historically,  
7       those unfilled megawatts have been rolled forward per  
8       order of the Commission.

9           Q.       Utility-scale -- the utility-scale RFP  
10      proposed in this IRP has flexible required commercial  
11      operation dates; correct?

12          A.       (Witness Mallard) Yes. That's what we  
13      proposed.

14          Q.       The DG RFP has targeted commercial operation  
15      dates of '27, '28, and '29?

16          A.       (Witness Mallard) That's right.

17          Q.       Why does the DG RFP not have similar flexible  
18      commercial operation dates?

19          A.       (Witness Mallard) Actually, that three-year  
20      window is -- is sort of a flexible window. That's --  
21      that's more potential COD dates than what the company has  
22      offered before. There's --

23          Q.       I'm sorry. Go ahead.

24          A.       (Witness Mallard) There -- there's less  
25      uncertainty around interconnection to the DG system. And

1 so we have not experienced the same potential limitations  
2 around interconnection timeline and maybe a misalignment  
3 and the time you can build a solar facility and the time  
4 it might take to build the interconnection facilities.  
5 That's more of a transmission issue than a DG issue. And  
6 so there's -- there's not really any -- not really any  
7 problem to solve on the DG side that a flexible COD would  
8 allow.

9 Q. You view this then as an enhancement or an  
10 adaptation in this IRP over prior -- over -- this RFP over  
11 prior RFPs?

12 A. (Witness Mallard) The RFP in general or one  
13 of the particular components?

14 Q. The three-year window for the commercial  
15 operation date?

16 A. (Witness Mallard) Yes.

17 Q. -- that's an adaptation or --

18 A. (Witness Mallard) Yes.

19 Q. -- an enhancement, if you will, over priors?

20 A. (Witness Mallard) Yes, it is.

21 Q. And does the IRP recognize that to -- for the  
22 system to realize the benefits that distributed generation  
23 and renewables in general can provide, that RFPs need to  
24 be flexible and need to adapt?

25 A. (Witness Mallard) That's the whole theme of

1 our IRP enhancements that we're proposing, yes, sir.

2 Q. And that goes back to what we talked about  
3 earlier about learning lessons with each IRP and each RFP;  
4 right?

5 A. (Witness Mallard) That's right.

6 Q. What are some of those enhancements in this  
7 RFP.

8 A. (Witness Mallard) For the DG RFP?

9 Q. Yes, sir.

10 A. (Witness Mallard) Yeah. So I would say the  
11 primary enhancement on the DG side is the addition of  
12 battery storage. And so as we've already talked about,  
13 the ability to add dispatchable capacity colocated with  
14 solar can add additional value to the system. We think  
15 that's a real game changer in the DG procurements.

16 Probably the other most fundamental  
17 improvement, Commissioners, is the ability for distributed  
18 generation resources to be subscribed. We've talked  
19 already about the success of the other subscription  
20 programs, CRSP and CARES and CNI Ready. An unmet customer  
21 need are proposing to allow DG facilities to also be  
22 subscribed. Open those up to a larger customer base and  
23 also the added ability for customers to drive additional  
24 procurements beyond the initial target. That has the  
25 ability for -- to really add some additional value, both



1 from the developer side on the nonparticipating customer  
2 side, and, of course, on the part of the subscribing  
3 customer, who can drive the additional procurements beyond  
4 the targets.

5 Q. Any other enhancements to the RFP,  
6 Mr. Mallard?

7 A. (Witness Mallard) I'm sure I could go read  
8 them out, if that would be helpful.

9 Q. Please.

10 A. (Witness Mallard) Just a second. So I'm  
11 reading on page 82 from the main document. So we've  
12 already talked about locational value. We've touched a  
13 little bit on the extended RFP.

14 We didn't talk specifically about the  
15 buy-down part of the RFP. I'll restate that for the  
16 Commission. We talked about it yesterday. But that's  
17 the -- after the traditional competitive phase of the RFP,  
18 the ability for fully evaluated projects to be offered the  
19 opportunity to reprice their submission to a price that  
20 would equal the total net benefit average of the entire  
21 portfolio. It basically is a form of a bid price refresh,  
22 if you will, and would allow additional procurements on  
23 that part of the competitive RFP.

24 VICE-CHAIRMAN ECHOLS: Would you go in  
25 reverse order?

1                   How would you start that?

2                   MR. MALLARD: That's an idea. You could --  
3                   you could do that way and sort of best price wins.  
4                   The other way to do it would be to just solve for  
5                   the -- that total net benefit average and make that  
6                   same price available.

7                   It's going to be a limited number of  
8                   projects, Commissioner. It would only be the  
9                   unselected projects. It would be a limited number  
10                  of projects.

11                  But one way to do it would just be to make  
12                  that price available and any project that could  
13                  meet that price target would be selected.

14                  VICE-CHAIRMAN ECHOLS: Any and all of them?

15                  MR. MALLARD: Any and all of them.

16                  VICE-CHAIRMAN ECHOLS: And they wouldn't have  
17                  to pay another fee of any sort?

18                  MR. MALLARD: No, they wouldn't. They'd be  
19                  meeting the same net benefit value as the rest of  
20                  the portfolio. I think about it this way. If --  
21                  if the company on behalf of customers was satisfied  
22                  with getting 50 megawatts from, you know, 15  
23                  projects or so, if there were three or four more  
24                  projects and could get another 10 or 15 megawatts  
25                  at the same value, would that be a good idea?

1                   As long as we can still handle that from an  
2                   interconnection and integration perspective, I  
3                   think -- I think that makes sense for everybody.

4                   VICE-CHAIRMAN ECHOLS: I think it's one of  
5                   the best, you know, modifications that you're  
6                   suggesting on this. I think that, you know,  
7                   there's -- we've had a lot of developers in the  
8                   past who have missed it.

9                   And they've really -- they've spent a lot of  
10                  money. They want to get in there and this gives  
11                  them a chance to do that. Kind of a second chance.  
12                  I like it a lot.

13                 BY MR. JONES

14                 Q.       These RFP enhancements, how did the company  
15                 develop those?

16                         Or how did you figure out that those would be  
17                 good on a move-forward basis or in future RFPs?

18                 A.       (Witness Mallard) We get that feedback pretty  
19                 regularly from DG market participants. Coming out of the  
20                 last IRP cycle, there was the DG working group, met a half  
21                 dozen times or so, got some feedback directly from the  
22                 market. We've been taking that forward and over the  
23                 course of the last year, the company has hosted feedback  
24                 sessions with multiple solar market participants,  
25                 customers, rooftop solar developers, but most with DG

1 developers.

2           And so these enhancements are based directly  
3 on that feedback. We've had multiple sessions and it  
4 really has been an iterative process where the company has  
5 heard the feedback, offered some solutions. The ones that  
6 seemed to hit the mark, we've kept. Some other ones we  
7 may have let fallen by the wayside.

8           These proposed enhancements represent our  
9 best case to put forward to have successful RFPs based  
10 directly off that feedback from the market participants.

11           Q.     I'm glad you asked about the DG working  
12 group. Explain more about that process.

13                   How many meetings did you have? When did it  
14 start? Kind of walk us through that.

15           A.     (Witness Mallard) Yeah. I don't -- I don't  
16 have all those details. I think there's a data request  
17 maybe that offers that. I can tell you they met a handful  
18 of times.

19                   It was representatives from the company, from  
20 the staff, from the solar development community.  
21 Commissioner McDonald put this forth in the '22 cycle to  
22 ensure a robust feedback process. And, like I said, I  
23 think it's been successful.

24                   I think we got a lot of learnings from that  
25 process. And now, by my way of thinking, it's morphed

1 into this more specific feedback process hosted by the  
2 company with direct feedback from RFP current and future  
3 participants.

4 Q. And how did that exchange of information  
5 happen out of the meetings?

6 What -- did the company create a report based  
7 on those meetings, identifying the feedback and its  
8 responses and analyses?

9 A. (Witness Mallard) Are we talking about the DG  
10 working group?

11 Q. Yes, sir.

12 A. (Witness Mallard) I'm not familiar. Staff  
13 really was the host of the DG working group. Those  
14 questions might be better put to staff. I did not  
15 participate in any of those. We had our representatives  
16 from our DG team participate.

17 And so they're hosted by staff. I believe  
18 Commissioner McDonald, maybe some others, attended at  
19 least a few of those. A really good exchange of  
20 information with the DG market participants.

21 I do think I remember a report or an email  
22 that comes out after those, but I just can't say for sure.  
23 I'm not the -- I'm not the SME on that. I did not  
24 personally attend those meetings.

25 Q. You would -- would you agree, though, that

1 those working groups and things of similar nature, a  
2 collaborative effort between participants, bidders, and  
3 the company and staff, would allow those RFPs and did  
4 allow RFPs to become more flexible and adaptable; thereby  
5 allowing the company to ensure it procures as many of the  
6 megawatts that this Commission has authorized?

7 A. (Witness Mallard) Yes.

8 Q. So that proactive feedback and that proactive  
9 adaptation of RFPs is a good thing; right?

10 A. (Witness Mallard) Yes.

11 Q. Tell me now about the process for RFPs prior  
12 to when they are issued or when bids are solicited.

13 Do you distribute the RFPs to potential  
14 participants prior to them being issued?

15 A. (Witness Mallard) Yes, yes. And for those  
16 not as familiar, the company's request for proposal  
17 process follows the Commission's RFP rules that is in  
18 compliance with the IRP Act. So it's a pretty  
19 prescriptive process to run competitive solicitations.

20 So similar to the way we run utility-scale  
21 RFPs, the company follows the Commission's rules and  
22 executes those RFPs in collaboration with the staff, the  
23 independent evaluator, and the market participants.  
24 Documents are developed based on that feedback we just  
25 talked about, shared with staff for feedback, ultimately

1 posted to the IE website for the market to comment.

2 In conjunction with that, there's a bidder's  
3 conference. Ultimately all that feedback is taken into  
4 account. The company and staff put together the final PPA  
5 and -- RFP and PPA versions. And then those are put  
6 before this Commission for approval before they're issued  
7 to the marketplace.

8 Q. Great. And that sounds really collaborative  
9 and productive. And the resulting RFPs, though -- the  
10 resulting RFPs for DG, we still found that some megawatts  
11 had been unallocated and unfulfilled; is that correct?

12 A. (Witness Mallard) That is correct. But I --  
13 I think that's a feature, not a bug. The company is  
14 procuring resources that provide value to customers. That  
15 depends on the price of the bids, the viability of the  
16 projects. In particular, where they are located.

17 And so the allocation for DG is more of a  
18 regulatory decision, not a model-driven decision. It's  
19 based on the feedback that we've gotten from the  
20 marketplace and the success of the last few RFPs. It's  
21 pretty evident that the market is delivering somewhere in  
22 the neighborhood of 90 megawatts or so per three-year  
23 cycle.

24 I think that's really a success. I think  
25 that's a lot of distributed generation being added to the

1 grid at prices that benefit all customers.

2 So that was foundational to the basis of  
3 proposing the 100-megawatt target going forward, but I  
4 think those targets are just that. They're targets that  
5 allow the company to offer the opportunity to bid the best  
6 price to the marketplace and then the company selects  
7 those projects that provide benefit to customers.

8 Q. Did you recognize the need for RFPs to become  
9 more flexible and adaptive to ensure that the system  
10 captured the valuable -- the value of renewable resources  
11 and the values that can -- those values that can be  
12 offered to customers?

13 A. (Witness Mallard) Yes.

14 Q. So anything that can be done to ensure that  
15 the company, along with participants, and in conjunction  
16 with staff are tailoring those RFPs to be successful as  
17 possible is important; correct?

18 A. (Witness Mallard) No. I wouldn't agree with  
19 that.

20 Q. So you don't think that every effort should  
21 be taken to ensure that the RFP procures the resources  
22 that this Commission has directed?

23 A. (Witness Mallard) No. And the word  
24 "anything" is -- is really wide open. No. Everything has  
25 a cost. Running RFPs has a cost; the cost of the



1 employees that work on it, the cost to the development  
2 community to go out and find the project locations, the  
3 cost of the independent evaluator, the time it takes.

4           There is absolutely an efficiency to the RFPs  
5 that has to be taken into account. Doing everything to  
6 hit a target that's not mathematically based, in my  
7 opinion, is not the right thing to do on behalf of  
8 customers.

9           Q.     But there's -- there is significant expanse  
10 to each RFP, I would definitely agree, which is the reason  
11 why we should do our best to ensure that each RFP is fully  
12 subscribed or as fully subscribed as possible; right?

13           A.     (Witness Mallard) We should do our best to  
14 run an RFP that's fair, that allows market participants to  
15 put their best projects forward, and that allows the  
16 company, along with the staff and the IE, to select the  
17 portfolio of projects that we deem provide value to all  
18 Georgia Power customers.

19           Said more simply, solar at any price is not a  
20 good value for customers. The value for customers is in  
21 procuring solar at prices that provide benefits as we  
22 compare those prices to our long-term avoided costs.

23           A.     (Witness Beppler) Commissioners, we want this  
24 process to be iterative, we want it to be responsive, but  
25 we also want it to be protective of all of our customers.

1           Q.     You could boil that down to a successful RFP;  
2 right?

3                     That's the goal?

4           A.     (Witness Mallard) Is what? Restate the  
5 question, please.

6           Q.     The goal is for every RFP to be successful;  
7 correct?

8           A.     (Witness Mallard) Yes. And I guess the --  
9 the definition of successful is in the eye of the  
10 beholder, Counselor.

11          Q.     Fair enough.

12                     Let's talk now about DERMS. Explain --

13                     CHAIRMAN SHAW: I have a question before you  
14 move on from that point. So I just want to applaud  
15 our renewables staff for the hard work that they do  
16 working with y'all and the community --

17                     MR. MALLARD: Yes, sir.

18                     CHAIRMAN SHAW: -- because they play a  
19 critical role in all of this. And I just want to  
20 applaud Jamie and her staff for all y'all are  
21 doing. Because I think -- we think we're doing it  
22 right here and we couldn't do it without y'all.

23                     But, Wilson, you -- you know, feel free to  
24 elaborate on how hard our staff works.

25                     MR. MALLARD: I would be glad to. The

1 collaboration with the staff is critical to the  
2 successful procurement, not just through these  
3 RFPS. But, look, the way that our overall  
4 renewable portfolio and strategy developed over the  
5 last 10 or 15 years, we are doing it the right way.

6 We're not going after some -- some mandate  
7 that's not based in science. We're procuring  
8 resources at the speed that we can do it that makes  
9 sense for customers. Georgia Power, working with  
10 staff, and the development community. I want to  
11 give them a lot of credit, too.

12 The folks that are active as stakeholders in  
13 the state of Georgia, they are the -- they're the  
14 hard workers out there, finding sites, developing  
15 projects, getting the projects built and  
16 interconnected. It takes all of that to bring  
17 these projects in before this Commission for -- for  
18 approval and for guidance as we continue to expand  
19 solar.

20 I -- I'm a little biased, I know, but I think  
21 we've got one of the best markets for renewable  
22 energy in the whole country in Georgia.

23 BY MR. JONES

24 Q. And on behalf of the Georgia Solar Energy  
25 Industries Association, we applaud staff, too. They've

1     been wonderful and instrumental in fulfilling the  
2     renewable procurements that this Commission has ordered.

3             A.       (Witness Phillips) And I'll just add, I don't  
4     think the positive interaction and relationship with staff  
5     is isolated just to renewables. Staff has certainly been  
6     responsive from a DSM perspective, as we continue to try  
7     and meet goals and be innovative and flexible. And we  
8     certainly appreciate the partnership that Georgia Power  
9     has with staff from a DSM perspective, as well.

10            Q.       I've got one, maybe two more questions. And  
11     then I'd like to talk about DERMS, if that's okay?

12            A       (Witness Mallard) Yeah.

13            Q       Well, you know, I had another idea. I'm  
14     going to move quickly. DERMS is my last topic.

15                    Mr. Mallard, you said procuring from a -- I  
16     forget your exact words. I won't ask the court reporter  
17     to read it back. But you said it makes sense to procure  
18     renewable resources in a calculated mathematical fashion.

19            A       (Witness Mallard) Right.

20            Q       Would you say that prior RFPs and the amount  
21     of resources sought to be procured there were based on  
22     that scientific approach, if we can just call it that?

23            A.       (Witness Mallard) Yeah. We talked a little  
24     bit about the change that happened in Aurora in 2022 that  
25     allowed Aurora to select solar resources. That really is

1 a big significant change. And so before that and after  
2 that you're going to divide the development of the solar  
3 targets into two categories. Now it's absolutely math and  
4 science based. And Aurora indicates the amount of  
5 resources that -- that the company seeks to -- to procure.

6 It's more of a policy decision how those  
7 resources are divided between utility-scale, DG, or other  
8 types of resources. This Commission provided a lot of  
9 leadership all the way back in the ASI days by not just  
10 procuring the least-cost resources, which would, in almost  
11 all circumstances, be utility-scale, but instead ensuring  
12 a carve-out for distributed generation that we've already  
13 talked about as providing a lot of benefits to the state  
14 of Georgia.

15 Q. And you'd agree the Commission has made the  
16 right policy decision in the amount of DG resources it's  
17 ordered procured in prior RFPs?

18 A. (Witness Mallard) I will agree, but let me  
19 say it slightly different. The Commission providing these  
20 DG targets and then allowing the competitive market  
21 process to show how many valuable projects are out there,  
22 that is absolutely the right thing to do. A target is --  
23 is just that. But the Commission's approval and guidance  
24 to procure resources that are deemed valuable based on  
25 their price and their other benefits, that is the real --

1 that's the real secret that has made our procurements so  
2 successful.

3 Q. And you acknowledge the need that  
4 procurements have to adapt, to evolve, and be flexible to  
5 reach those targets set by this Commission?

6 A. (Witness Mallard) Yes.

7 Q. Okay. The amount of DG resources that the  
8 company seeks in this IRP, are those based on that  
9 scientific approach?

10 A. (Witness Mallard) The underlying amount --  
11 the 4,000 megawatts by 2035, that's the underlying  
12 mathematical target. We then paired that with the  
13 practical and the experience that we've had looking at  
14 past RFPs and how much we've procured.

15 So the long-term target is solved for by math  
16 and science. The allocation between DG and utility-scale  
17 and the exact targets for each RFP, that's informed by our  
18 experience in prior RFPs and our expectation for future  
19 conditions in the market.

20 Q. And now I'd like to moved to DERMS. Can you  
21 tell me, in implementing DERMS -- give me your 30,000-foot  
22 view just so we can get onto this topic. I know you  
23 discussed it in prior testimony, but let's shift gears  
24 there.

25 A. (Witness Beppler) Can you be more specific in

1 your question?

2 Q. Give me your elevator speech, please, on  
3 DERMS.

4 A. (Witness Beppler) Sure. Highest level,  
5 Commissioners, DERMS is a system of system which provides  
6 visibility, predictability, and hopefully with -- if the  
7 request in this case is granted, control of distributed  
8 assets so that they can deliver value to the system.

9 Q. And how -- what is that implementation?  
10 Is that through a company resource or is that  
11 a third-party resource?

12 A. (Witness Beppler) So the company has  
13 contracted with a vendor to provide this software  
14 platform. That will then get implemented by integrating  
15 this specific software platform with some of the customer  
16 -- the company's existing systems -- our energy management  
17 system, our advanced distribution management system, and  
18 others -- to really give us that system of systems so that  
19 we can operate distributed assets in the most valuable way  
20 for our customers.

21 Q. DERMS is about maximizing value of DERs;  
22 right?

23 A. (Witness Beppler) I think that's fair, yes.

24 Q. What is the request for DERMS in this IRP?

25 A. (Witness Beppler) It is to enable control of

1 third-party-owned assets. So the ability to dispatch  
2 specific program-enrolled resources, like the  
3 solar-plus-storage assets that we were describing earlier.

4 Q. Does that -- does it contemplate an  
5 aggregator or someone aggregating smaller resources that  
6 then the company can then call on to dispatch?

7 A. (Witness Beppler) So, again, one of the  
8 benefits of a utility-centric DERMS is the ability to  
9 incorporate these third-party or edge DERMS. I think you  
10 used the term aggregators. That's the -- the platforms  
11 which are communicating with the individual end-use  
12 devices.

13 So a couple of examples, Commissioners, would  
14 be the -- the implementation of our residential DR program  
15 or the managed charging program. Both of those use an  
16 edge DERMS, which will then integrate into and communicate  
17 with the utility DERMS.

18 MR. JONES: Okay. Those are all the  
19 questions I have. Thank you, Panel.

20 MR. MALLARD: Thank you.

21 MR. JONES: Thank you, Commissioners.

22 CHAIRMAN SHAW: Thank you.

23 Georgia Solar.

24 MR. MORELAND: Hey, Commission. Thank you.

25 Thank you, Chairman.



1 CHAIRMAN SHAW: Thank you.

2 MR. MORELAND: Hey, Panel. I have some good  
3 news. The topic that I will be asking questions  
4 about is just about the residential and small  
5 commercial solar and battery pilot programs. So  
6 I'm going to start off with Mr. Phillips.

7 CHAIRMAN SHAW: I just want to mention one  
8 time that if some of your questions have already  
9 been asked, it's already there.

10 MR. MORELAND: I understand. And I  
11 appreciate that. I have been crossing some off.

12 CHAIRMAN SHAW: Okay.

13 MR. MORELAND: So I will try to -- I will try  
14 to be brief.

15 CROSS-EXAMINATION

16 BY MR. MORELAND:

17 Q. So the capacity -- the target capacity for  
18 this program is currently at 50 megawatts; right?

19 A. (Witness Beppler) That's correct.

20 Q. And there's two different pathways that  
21 customers can choose. And that capacity has been divided  
22 evenly between those two pathways for 25 megawatts each;  
23 correct?

24 A. (Witness Beppler) Yes.

25 Q. What is the rationale for -- for just doing

1 it at a split 25/25?

2 A. (Witness Beppler) I think we want to, you  
3 know, have options available for customers. Certainly one  
4 of the learnings that comes out of this might be that one  
5 pathway is more attractive and then we could adjust going  
6 forward. But an even split seems like a good place to  
7 start.

8 Q. So if one of the pathways were to be more  
9 popular than the other and say -- let's just say the  
10 company-directed pathway sells out quickly, there's still  
11 capacity left in the customer-directed pathway, would that  
12 possibly trigger the situation where Georgia Power would  
13 go back and look at the addition of more capacity?

14 A. (Witness Beppler) Yes.

15 Q. If just one of them -- so, in other words,  
16 customers wouldn't be restricted to use the other pathway  
17 because the other one is already sold out?

18 A. (Witness Beppler) No. I think if we -- if we  
19 reached either of the pathway targets, that's an  
20 opportunity where we'd come back and -- and utilize that  
21 check-in approach.

22 A. (Witness Mallard) And we'd be informed by  
23 the -- the information that we'd have of projects in the  
24 pipeline, interest of potential projects. If one was  
25 significantly more popular than the other, we could

1 reallocate. But, more likely, it would be a request just  
2 to -- just to procure more.

3 Q. And will Georgia Power provide regular  
4 reporting updates to the public on the -- how much  
5 capacity is left in each pathway?

6 A. (Witness Beppler) Yeah. I don't think we've  
7 defined all the details of that, but certainly would be  
8 open to providing information on how the subscriptions and  
9 enrollments are -- are trending.

10 Q. And so it's to be determined then if that  
11 reporting would be based on, you know, at application or  
12 at PTO, for example?

13 A. (Witness Beppler) Sorry. Could you repeat  
14 the end of that question?

15 Q. Yeah. If we're doing regular reporting,  
16 like, say, monthly reporting on the capacity that's left  
17 in each pathway, is that reporting going to be based on  
18 when the application is made to participate in the program  
19 or upon PTO?

20 In other words, how will the industry have  
21 any insight into what that pipeline looks like?

22 A. (Witness Mallard) Yeah. I think we'll work  
23 closely with staff and then look from the marketplace to  
24 determine that. We definitely gained a lot of knowledge  
25 over the last few years from the -- from the monthly

1 netting pilot, and, then again, just the heightened level  
2 of customer applications that we've seen over the last few  
3 years. And so we'll work closely with staff to understand  
4 what is the most meaningful metric to report.

5 Q. Okay. Going back to that check-in mechanism  
6 that's on page 40, line 20, of your testimony. Just to  
7 quote a portion of it, it says: The company will -- well,  
8 in the event the company reaches the target enrollment  
9 before the 2028 IRP, the company will present to the  
10 Commission potential program modifications based on  
11 lessons learned and seek approval, et cetera.

12 Does that mean that the company could look at  
13 potential program modifications in addition to the  
14 capacity number?

15 In other words, would the company be looking  
16 at -- at modifying some of the incentives that is -- are  
17 available?

18 A. (Witness Beppler) I don't think that's off  
19 the table. You know, as we testified earlier, we  
20 understand that, you know, conditions change. And so as I  
21 said to the previous counselor, we want to be responsive  
22 to that, but also protective.

23 So the intent of this target was to identify  
24 what we think is achievable and reasonable. It wasn't to  
25 imply scarcity. We want these programs to be successful.

1                   We believe that they deliver value both for  
2 participating customers and nonparticipating customers.  
3 So we're going to do what we are able to to ensure a  
4 successful program implementation.

5           A.       (Witness Goff) And this is really in response  
6 to feedback we got through the collaboration sessions of:  
7 Please don't put a cap on it. We want it to be more of a  
8 target.

9                   And so this is direct response to the  
10 feedback through those processes.

11           Q.       For the capacity target I understand. But it  
12 seems like you're leaving yourself room to adjust some of  
13 the incentives available, as well. So, for example, if  
14 the customer-directed pathway were to sell out quickly and  
15 we need more capacity for that particular pathway, then  
16 that could also give you an opportunity to adjust either  
17 downward or upward the up-front incentive and the ongoing  
18 performance incentive; is that correct?

19           A.       (Witness Beppler) I don't think that's off  
20 the table. One of the appeals and another piece of  
21 feedback we heard is that we wanted a clear incentive  
22 structure and a clear signal to the market. So I don't  
23 think we would want to be continuously changing that. But  
24 to the extent that there is a fundamental shift in market  
25 conditions or -- you know, we have not seen success with

1 certain program elements, then we could recommend changes  
2 to the Commission if we came back.

3 A. (Witness Mallard) I think it might be -- the  
4 changes we consider might be more the mechanics of  
5 participation and how the program was working. The values  
6 for the incentives are based on long-term system costs. I  
7 think those are unlikely to change significantly, even  
8 within a three-year cycle.

9 So the changes we would make I think -- and  
10 not an exact science, but the type of thing that could be  
11 made in a -- an energy admin cycle type of an approval,  
12 not a fundamental program redesign outside of the IRP.

13 Q. Okay. I appreciate that. Thank you.

14 Let's talk about the system size  
15 requirements. How did the company arrive at 20-kilowatts  
16 AC for residential?

17 A. (Witness Beppler) Yeah. So, again, one of  
18 the pieces of feedback that we heard was that there was a  
19 desire to allow larger systems than just 10-kW limit in  
20 RNR. We thought 20 kW was a limit that would avoid  
21 triggering incremental costs, as far as infrastructure  
22 upgrades. When you get much beyond that, then you might  
23 have to upsize service levels or transformers to be able  
24 to accommodate that potential pushback. So this is a  
25 balance of trying not to incur additional costs while

1 being responsive to the feedback that we heard.

2 Q. Maybe an example will help -- help me  
3 understand a little bit further. The Tesla Powerwall 3,  
4 as you may know, has a maximum continuous power rating of  
5 11.5 kilowatt-hours -- or kilowatts AC; correct?

6 A. (Witness Beppler) Subject to check --

7 Q. Subject to check.

8 A. (Witness Beppler) -- I am willing to accept  
9 that, yeah.

10 Q. Okay. So based on the 20-kilowatt AC limit,  
11 how -- what's the largest you could size your solar energy  
12 system to be paired with that?

13 A. (Witness Beppler) If you were able to export  
14 the full amount of that battery, then you would be limited  
15 to 8 1/2 kW of solar.

16 Now, I will -- I will say that that is just  
17 to receive the participation incentive. So there is --  
18 again, there's other options for participating and we have  
19 discussed previously a number of different programs that  
20 could potentially stack, be that solar-plus-storage, RNR.  
21 They have some different limitations.

22 There's optionality for customers. If the  
23 specific restrictions on this program don't meet a  
24 customer's needs, then there's other ways for larger  
25 systems potentially to participate.

1           Q.     Okay.  So just to -- I'm -- not to belabor  
2 this, but you're assuming that both -- in the example that  
3 I just cited, that the 8 1/2-kilowatt solar system and the  
4 Tesla Powerwall 3 are both discharging a hundred percent a  
5 hundred percent of the time to reach that 20-kilowatt  
6 limit?

7           A.     (Witness Beppler) No.  But they do have the  
8 possibility to export at that 20 kW.  And so we're not  
9 assuming that all of that will be happening at the same  
10 time, but we're protecting against the case where that  
11 would be occurring.

12          Q.     Do we know about how often we think that  
13 would happen?

14          A.     (Witness Beppler) I can't speculate on that,  
15 no.

16          Q.     Would it be possible to maybe look at how  
17 often that could happen and then discount it  
18 appropriately?

19          A.     (Witness Beppler) It only has to happen once  
20 to trigger the types of costs.  If you start pushing back  
21 energy beyond that and you have a transformer that blows,  
22 only one time and the transformer needs to be replaced.

23                 So, you know, this is about protecting the  
24 system.  We think the 20 kW size threshold is going to  
25 cover the vast majority of systems that would potentially



1 be participating in this program. But, as I mentioned,  
2 there is, you know, other options outside of this program  
3 if customers are interested in larger systems.

4 Q. Okay. Let's look at the incentives  
5 particularly for the customer-directed. If we're  
6 forecasting avoided generation capacity value at \$1,000  
7 per kilowatt and then taking the net present value  
8 discounted to 75 percent of the shared savings model, then  
9 \$750 per kilowatt for the -- for the up-front incentive  
10 for the company-directed pathway makes perfect sense;  
11 right? 75 percent of 1,000.

12 A. (Witness Beppler) Yes. I think there was a  
13 couple of steps that you might have glossed over in there  
14 in that you're taking the net present value of avoided  
15 capacity costs over that 10-year contract life to get that  
16 \$1,000 per kW and then applying that 75 percent. But  
17 generally, yes, you're correct.

18 Q. So then could you just help me understand,  
19 how did you get to the incentives for the  
20 customer-directed program based on that avoided cost  
21 value?

22 A. (Witness Beppler) Sure. So, Commissioners,  
23 the generation capacity avoided costs were consistent  
24 across both streams. For the customer-directed, we took a  
25 levelized average of the 3-year cycle, so '26 through '28.

1 We determined a dollar per kW based on those avoided  
2 generation capacity costs and then we looked at the  
3 expectation of the number of hours it would be called a  
4 year.

5 And so we said the company is committed to  
6 calling these resources a minimum of 50 hours a year. And  
7 we took that generation capacity value and spread it out  
8 over those 50 hours to determine that dollar per kWh  
9 pay-for-performance incentive, plus that \$15 up-front  
10 enrollment incentive.

11 A. (Witness Goff) And I believe this might have  
12 been submitted through a data request, too. If you want  
13 more information, that may be also helpful to you.

14 Q. Okay. Great. Thank you very much.

15 So with the customer-directed pathway,  
16 consumers have optionality there. They can opt out of an  
17 event if they want?

18 A. (Witness Beppler) That's correct.

19 Q. Can they also opt out of a certain number of  
20 hours per event?

21 A. (Witness Beppler) Yes.

22 Q. So they can say, just for an example: Yeah,  
23 I want to do this event, but just for one hour?

24 A. (Witness Beppler) That's correct.

25 Q. Okay. Also, for the customer-directed, there

1 is no agreement that has to be signed for that program?

2 A. (Witness Beppler) I -- I don't agree with  
3 that. So either participation channel would have a  
4 customer agreement. The difference I think you may be  
5 referring to is sort of the longer term nature of the  
6 contract in the company-directed option.

7 A. (Witness Mallard) Yeah. And all projects  
8 would have to follow company current interconnection  
9 guidelines in their connect per -- per Georgia Power and  
10 Southern Company direct policies.

11 Q. How long will the up-front and performance  
12 incentive be available for the customer-directed?

13 A. (Witness Beppler) We've -- we've committed  
14 through this IRP cycle. So '26, '27, '28.

15 Q. Did the company consider a longer term for  
16 the customer-directed program?

17 A. (Witness Beppler) We didn't. We think there  
18 is an option for those customers who are interested in a  
19 longer term in the company-directed option. Certainly if  
20 we -- if we hear that feedback through the pilot, then  
21 that's something we can consider going forward.

22 Q. Does the company agree that a term with a  
23 longer price lot, quote-unquote, would likely provide  
24 greater certainty for developers and program participants?

25 A. (Witness Beppler) Yes. I think that's fair,

1 but then there's also risks introduced for -- for  
2 nonparticipants.

3 And I want to be clear, we've -- we've  
4 committed to offering this level of incentive for the --  
5 the pilot window in the next IRP cycle. That isn't to say  
6 that we anticipate that this program goes away.

7 As I mentioned earlier, we want to make this  
8 something that's successful. And so anticipate that maybe  
9 with a few modifications based on feedback we receive,  
10 this is something that continues beyond the pilot phase.

11 Q. So it is possible that those incentives, both  
12 the up-front and performance incentive, could be increased  
13 in the next IRP?

14 A. (Witness Beppler) Those incentives are based  
15 off of our avoided costs. So as avoided costs change,  
16 we'll update the calculation of those incentives.

17 Q. Okay. Did the company complete an analysis  
18 comparing the total incentive dollars spent under the  
19 customer-directed option through three years versus the  
20 up-front incentive payment under the company-directed  
21 program?

22 In other words, you know, how did the -- how  
23 do those fair to -- from the customer and the benefits to  
24 the customer?

25 A. (Witness Beppler) I don't know that we did

1 that specific analysis. I will say that the source of the  
2 avoided costs and the assumptions that were used to derive  
3 the incentives were consistent between the two programs.

4 Q. Is it safe to say just -- if the incentives  
5 for the customer-directed program were consistent over a  
6 10-year period of time, then they would land at or around  
7 the same as the company-directed?

8 A. (Witness Beppler) Around the same. I will  
9 note there is a slightly different ELCC value. So we  
10 talked about that a little bit yesterday, Commissioners.  
11 The effective load carrying capacity differs slightly  
12 between the two program options. But outside of that,  
13 yes, you would get a similar value from 10 years of  
14 participation in both channels.

15 Q. And as far as the 4-hour duration per event,  
16 can you tell us a little bit about how we landed on four  
17 hours for that one?

18 A. (Witness Beppler) Sure. So we did hear  
19 feedback and we looked at peer programs. Four hours was  
20 something that we thought was reasonable, given the sort  
21 of technological capabilities.

22 That's not to say we'll necessarily always  
23 call 4-hour events, but the 4-hour event designation  
24 helped maximize that ELCC. So it enabled us to reflect  
25 higher incentives for that program participation channel.

1           Q.     Is the number of hours -- is that directly  
2 correlated with how the up-front incentive is calculated?

3           A.     (Witness Beppler) Can you be specific with  
4 the -- what you mean by the number of hours?

5           Q.     Yeah. So for the -- for the  
6 customer-directed, the up-front incentive is divided by  
7 four.

8           A       (Witness Beppler) Yes.

9           Q       Whereas, as in the company-directed, it's  
10 divided by two.

11          A.       (Witness Beppler) Yes.

12          Q.       And I think we've talked about this before.  
13 But just if you could entertain me just for a minute,  
14 what -- shortly, what is the difference there and why is  
15 there a difference in how that up-front is -- is  
16 calculated?

17          A.       (Witness Beppler) Yeah. So, again,  
18 Commissioners, we were -- we were trying to maximize the  
19 value that we could provide, both in terms of to benefit  
20 the system, but also reflect in incentives.

21                 Under the company-directed model where we're  
22 having more realtime dispatch capabilities with the  
23 batteries a 2-hour battery is capable of receiving  
24 100 percent ELCC at present. And so that is the benchmark  
25 that we use to define the incentive level.

1                   On the customer-directed, as I mentioned,  
2       it's going to look much more like a demand-response  
3       program, in that additional advance notice results in a  
4       different ELCC. To try and maximize the value associated  
5       with that, we used a 4-hour event window because that has  
6       a higher ELCC rating. And so that would maximize the  
7       incentive that we could offer through that participation  
8       channel.

9                   Q.     You mentioned there's a minimum number of  
10      hours, 50 hours per year. Based on company modeling, can  
11      you anticipate what a maximum number of hours would look  
12      like?

13                  A.     (Witness Beppler) So we haven't committed to  
14      a maximum for a couple of reason, Commissioners. One is  
15      that, as we already discussed, customers have the ability  
16      to opt out. So if -- if there's larger number of hours  
17      and they don't want to participate, they can simply opt  
18      out.

19                         But it gives the company a little bit more  
20      flexibility in managing the number of events and the hours  
21      dispatched. Where if we get to the end of a year and  
22      we've already hit 50, but you're on one of those cold  
23      winter morning December 31st, you can still utilize those  
24      resources. And to the extent that customers respond,  
25      they'll be continued to pay for that performance beyond

1       that 50-hour event.

2               Q.       Okay.  Do you recall if any of the  
3       collaborators in the two feedback meetings suggested  
4       4 hours?

5               A.       (Witness Beppler) I don't recall if that was  
6       a specific recommendation, but I do know that we got some  
7       recommendations.  And -- and, again, we looked at some  
8       peer programs which -- which had similar ranges of -- of  
9       event hours.

10              Q.       Okay.  Let's talk about payments, payment  
11       options.  So under the company-directed, who will be  
12       responsible for issuing payments for the enrolled  
13       projects?

14                      Is that the company?  Is that the integration  
15       provider?

16              A.       (Witness Beppler) So I -- I think the answer  
17       to your question will depend slightly on the  
18       implementation vendor selected.  I will say I do intend --  
19       we do intend that the payments will not be reflected on a  
20       customer's bill, but would be a separate payment.  And  
21       that is really just for ease of implementation.

22                      When you start trying to incorporate things  
23       into the bill, it can add complexity and -- and time.  So  
24       to bring this to market as quickly as possible, we think  
25       it's going to be more straightforward to have those



1 payments be separate. Whether they are issued directly by  
2 the company or a third-party vendor, I don't know at this  
3 point.

4 Q. That answered another question. Thank you.

5 Who will be eligible to receive the up-front  
6 payments; customer or if there's a third-party provider?

7 How -- is there a restriction on where that  
8 payment could be made?

9 A. (Witness Beppler) So I think what you're  
10 getting at is the potential to assign the incentive to a  
11 third-party?

12 Q. Yes.

13 A. (Witness Beppler) Yes. We have considered  
14 that option. I think that's something we're willing to  
15 entertain. That would be similar to some of our -- our  
16 DSM programs.

17 So we'll need to ensure some customer  
18 protections to make sure that that incentive is truly  
19 being passed on to the customer, but we understand that in  
20 some of the participation pathways and means of accessing  
21 these behind-the-meter resources that would allow easier  
22 implementation. So, yes.

23 Q. So some kind of an assignment mechanism is  
24 what you're contemplating?

25 A (Witness Beppler) Right.

1           Q       Is that also true for the performance  
2 incentive under the customer-directed pathway?

3           A.       (Witness Beppler) So I think the performance  
4 incentive would have to be customer specific, given that  
5 they are the one directing more of the usage associated  
6 with that.

7           Q.       Okay. Let's talk about the grid charging.  
8 Under the company-directed option, the battery can only be  
9 charged with a paired solar system; is that correct?

10          A.       (Witness Beppler) Under the company-directed  
11 option, the battery would be restricted to charging just  
12 from the solar. And the reason there, Commissioners, is  
13 we didn't want to be compelling customers to use more  
14 electricity to charge those batteries.

15          Q.       Is it possible that energy storage systems  
16 not eligible to charge from the grid could have less  
17 availability -- available discharge capacity?

18          A.       (Witness Beppler) That is possible, yes.

19          Q.       Which could lead to less capacity available  
20 to discharge during -- during an event?

21          A.       (Witness Beppler) Yes.

22          Q.       But you'll be able to monitor that and be  
23 able to see all that?

24          A.       (Witness Beppler) Another one of those  
25 benefits of the DERMS systems we've been discussing.

1           Q.       So customers would not be eligible to charge  
2 from the grid ahead of a storm event or any suspected  
3 outages?

4           A.       (Witness Beppler) Again, the intent there is  
5 that the battery resource would be charged exclusively by  
6 the solar so that the company who's directing the  
7 operation of those assets would not be forcing the  
8 participating customer to purchase more electricity, more  
9 of our product.

10                   Now, to your point, as we continue to gain  
11 learnings with the program, that's a design element that  
12 we could consider moving forward is to allow grid -- grid  
13 charging for those in the company-directed option, as  
14 well.

15           Q.       Do you anticipate that requiring the solar to  
16 charge the battery could have an impact on the benefits to  
17 the customer in that it would be -- the customer would  
18 have less use for offsetting its own electricity usage or  
19 time of use, arbitrage type of thing?

20                   So could requiring the solar charge the  
21 battery limit the ultimate benefits to the customer?

22           A.       (Witness Beppler) I'm willing to agree that  
23 by limiting the charging to the solar, you do potentially  
24 restrict the -- all the potential availability of the  
25 battery. But you also provide some protections for the

1 participating customers in ensuring that they will not be  
2 required to purchase more electricity to charge those  
3 resources than are being directed on the company's behalf.

4 Q. Are you familiar with the Duke PowerPair  
5 program?

6 A. (Witness Beppler) Generally, yes.

7 Q. And they also require the battery to be  
8 charged with solar?

9 A. (Witness Beppler) There are a number of your  
10 models that we've looked at that have a similar  
11 requirement, yes.

12 Q. For the Duke PowerPair program, they offer a  
13 36 cent-per-kilowatt incentive -- up-front incentive for  
14 the solar because the solar is required to charge the  
15 battery.

16 Did -- did the company contemplate an  
17 incentive for the solar?

18 A. (Witness Beppler) We didn't directly  
19 contemplate an incentive for the solar. I will say the  
20 structure of the two programs' incentives is very  
21 different. So I don't necessarily know that that's an  
22 apples-to-apples comparison.

23 In addition, as we've discussed previously,  
24 Commissioners, participating customers will also have the  
25 opportunity to participate in RNR, which already provides

1 an incentive for the solar itself. And the intent of this  
2 solar-plus-storage program is really to encourage  
3 additional adoption of battery storage, not necessarily  
4 just stand-alone solar.

5 A. (Witness Mallard) Again, I'll just make  
6 another note about North Carolina. They've got a solar  
7 goal, a state mandate, and so incentives for solar are  
8 likely driven by compliance with that state mandate.

9 Q. All right. Let's talk about --

10 VICE-CHAIRMAN ECHOLS: Are you talking about  
11 the carbon plan -- their carbon plan or what?

12 MR. MALLARD: Yeah. North Carolina, its --  
13 the goal -- I can't remember the name of the plan.  
14 But a goal for certain amount of solar. It would  
15 be my expectation that that's --

16 VICE-CHAIRMAN ECHOLS: Yeah. They call it  
17 the carbon plan.

18 MR. MALLARD: Okay.

19 VICE-CHAIRMAN ECHOLS: But they previously  
20 had an RPS.

21 MR. MALLARD: Yes.

22 Okay.

23 DR. BEPPLER: Yeah, they don't have an RPS.

24 VICE-CHAIRMAN ECHOLS: Thank you.

25 BY MR. MORELAND

1           Q.     On page 41, line 16, of your testimony --  
2 I'll let you get there. It says: The pilot will leverage  
3 the battery inverter for measuring performance and does  
4 not penalize customer for non-performance.

5                     Do you see that?

6           A.     (Witness Mallard) Yes. 16.

7           Q.     So for the company-directed, will there be  
8 any minimum performance requirements?

9           A.     (Witness Beppler) Can you repeat the  
10 question?

11          Q.     For company-directed pathway, will there be  
12 any minimum performance requirement?

13          A.     (Witness Beppler) Yes. I think the specific  
14 line in the testimony is, I believe, referring to the  
15 customer-directed option where you're -- where we're  
16 talking about not penalizing customers for  
17 non-performance.

18                     In the company-directed option there would be  
19 some performance requirements. We haven't exactly  
20 determined those details. I think we would work with our  
21 implementation partner to -- to define those and include  
22 those as part of the customer contract.

23          Q.     Okay. I'm sorry. I read it like three times  
24 and it wasn't clear if that line referred to a particular  
25 pathway. So I appreciate you clearing that up.

1                   Do we know what those requirements are for  
2 the company-directed pathway yet?

3           A.       (Witness Beppler) Again, as I stated, I think  
4 we'll work with our third-party implementation partner to  
5 define those. And any requirements would be included in  
6 the customer contracts.

7           Q.       Does the company anticipate any clawbacks for  
8 any of -- for the up-front incentive if there's  
9 noncompliance under the company-directed?

10          A.       (Witness Beppler) Yes. I do think in order  
11 to participate -- or to protect nonparticipating  
12 customers, if these assets are not meeting the sort of  
13 performance requirements, we would have a clawback  
14 provision to ensure that we didn't pay incentives beyond  
15 the value that's realized for nonparticipating customers.

16                   In addition, that optionality can actually  
17 provide a benefit to participating customers who might  
18 want to, say, move or sell their home the ability to sort  
19 of end that contract and return a prorated portion of that  
20 up-front incentive based on their participation to date.  
21 It provides them additional optionality.

22          A.       (Witness Goff) But, again, everybody should  
23 know going in based on customer agreement: Here are the  
24 expectations. Here's what's going on in the program.

25                   So everything should be very transparent so

1 people know what's being agreed to.

2 Q. A hundred percent agree. And I want to talk  
3 about that in just a minute.

4 And that answered my -- you said prorated. So  
5 that answered my next question.

6 And then, you know, who would be responsible  
7 for paying that -- that clawback back; the customer or --

8 A. (Witness Beppler) Yeah. The -- I think it  
9 would be the participating customer or the recipient of  
10 the incentive.

11 Q. That makes sense.

12 For the customer-directed program, kind of  
13 the same line of questioning. If for some reason the  
14 customer did not participate for that minimum 50 hours per  
15 year, are there clawbacks associated with that incentive?

16 A. (Witness Beppler) No. And given the  
17 pay-for-performance model, the incentives would be sort of  
18 post hoc. So we would pay out the incentives after the  
19 annual performance cycle. And so to the extent a customer  
20 opted out or elected not to participate in specific  
21 events, their incentive would be reduced, but we wouldn't  
22 have the need to claw anything back.

23 Q. So you wouldn't claw back the up-front \$15  
24 per kilowatt --

25 A. (Witness Beppler) No.



1 Q. Okay. Annually; right?

2 A. (Witness Beppler) That's correct.

3 Q. All right. So I have to ask, just to be  
4 clear, there are no instances under which the incentives  
5 would be clawed back for the customer-directed program?

6 A. (Witness Beppler) Again, it's only a one-year  
7 contract. So we don't think there would be a need to have  
8 any sort of clawback for that participation pathway.

9 Q. Okay.

10 A. (Witness Goff) But never say never. I mean,  
11 when you said that, that sounded very like you --

12 Q. I know.

13 A. (Witness Beppler) Ominous.

14 A. (Witness Goff) Yeah. It sounded ominous. I  
15 mean, the idea is with the customer-directed option, we  
16 think customers would want to participate in that so they  
17 would respond to events and get additional value.

18 Q. Right.

19 A. (Witness Goff) So that's the goal.

20 A. (Witness Beppler) The incentives are in line  
21 such that if they want to receive value from those assets,  
22 they are encouraged to participate. That's the basis of a  
23 pay-for-performance model.

24 Q. When designing the program, did the company  
25 consider benefits to the participating customer?

1           A.       (Witness Beppler) Yes.

2           Q.       As well as the company?

3           A.       (Witness Beppler) Yes. I think we just went  
4 through a pretty exhaustive list of the monetary  
5 incentives available to participating customers.

6           Q.       Did you compare the total benefits to the  
7 customer versus the costs of the underlying asset --

8           A.       (Witness Beppler) Yes.

9           Q.       -- as part of that analysis?

10          A.       (Witness Beppler) I think I mentioned this  
11 earlier. Based on our sort of our guidance of the cost of  
12 battery storage systems, we think that these incentives  
13 will cover roughly a third of the up-front costs. When  
14 you consider the potential to stack federal incentive  
15 dollars available through the IRA, that might get you  
16 another third of the cost. So you're getting beyond half  
17 of the up-front cost of the storage incentive through  
18 program participation.

19          Q.       Okay. All right. Let's talk about the  
20 application process. Maybe we haven't fleshed that out  
21 yet. But just to ask: There will be an application  
22 process to participate in the program.

23                   Do you anticipate that being through  
24 PowerClerk?

25          A.       (Witness Beppler) Yes, I do think that we

1 will use PowerClerk or a similar application, vendor.  
2 We've had some initial discussions. We released an RFI  
3 to -- to the market to gain some insight into the  
4 capabilities of -- of different vendors and implementors.  
5 And that was included as their ability to interface with  
6 that PowerClerk process. So not definitive, but, yes, we  
7 anticipate utilizing some of the existing processes.

8 A. (Witness Mallard) Yeah. And just the short  
9 answer is still TBD. PowerClerk generally focuses on the  
10 interconnection application. The customer acquisition  
11 will be -- depend on ultimately our selection of that  
12 implementation partner.

13 And so once we select that partner,  
14 understand their capabilities, marry that with our own  
15 capabilities that are established for interconnecting  
16 customer-sided projects now, that's where -- we'll put it  
17 all back together and get feedback from the marketplace  
18 and staff and come up with what's hopefully an easy and  
19 efficient application process.

20 Q. Maybe streamline so -- maybe you can only  
21 apply once and provoke the interconnection and -- and this  
22 program?

23 A. (Witness Mallard) We can dream.

24 Q. All right. Good enough.

25 Do you anticipate there being a fee to apply

1 for this program?

2 A. (Witness Beppler) No.

3 Q. Who is eligible to submit the application?

4 Do we know that yet?

5 In other words, is it the customer, is it the  
6 installer, is it the system owner, all of the above?

7 A. (Witness Beppler) I don't know that we've  
8 worked out those details specifically. So TBD on that.

9 Q. Any other documentation that you anticipate  
10 that would be required as part of an application for this  
11 program?

12 A. (Witness Mallard) The -- the typical  
13 documentation that's already required for interconnection  
14 including the one-line diagrams and the contracts, I think  
15 those would be modified for this program. And, again,  
16 those might differ based on the size and the type of -- of  
17 customer.

18 So those -- we have existing solar and  
19 storage facilities now. If any of those existing  
20 processes or application details need to be modified,  
21 that'll be something that we'll work out through the  
22 process.

23 Q. And just another one to put out there is:

24 You know, at what point will an application be submitted?

25 You know, at -- at what point in the project development

1 phase?

2 In other words, you know, maybe in order to  
3 -- I mean, do you anticipate a rush of applications just  
4 so people can get in before the capacity limits are done,  
5 or do they have to have the project along at a particular  
6 point before they're eligible to apply for this program?

7 A. (Witness Mallard) Again, we've -- we've  
8 learned a lot over the last few years with implementing  
9 our customer-sided programs. As it currently stands,  
10 projects really do have to be ready to go. All the data  
11 has to be complete in PowerClerk. And so I would foresee  
12 a similar type of a process where a project really does  
13 need to be designed and developed and ready to go to apply  
14 for the program.

15 Q. If a customer is on the R rate or the GS  
16 rate, they'll need to switch their plan; is that correct?

17 A. (Witness Beppler) Yes. Those are not options  
18 that are available for participation in this program.

19 Q. And do we anticipate when that would need to  
20 happen?

21 Is that at PTO; at the application process?

22 A. (Witness Mallard) I haven't thought about  
23 that one yet. At one of those -- one of those times, yes.  
24 Certainly before the system operates.

25 Q. Okay. That's important, right, because when

1 are the applications --

2 A (Witness Mallard) Sure.

3 Q When is the application going to be accepted,  
4 when are the up-front payments going to be repaid along  
5 that phase. You know, if it's -- if it's after PTO,  
6 that's different than if it's paid during another phase of  
7 the development project.

8 A. (Witness Mallard) Understood.

9 Q. And then customer protections. Have you  
10 considered options to ensure customer protections are  
11 maintained under this program?

12 One idea that our members came up with was  
13 perhaps to develop a disclosure form for customers so they  
14 know the ins and out, what's allowed, not allowed, as far  
15 as the program is concerned.

16 A. (Witness Beppler) I don't know that we've  
17 explicitly considered that. But throughout the  
18 development of the program, we've been taking feedback and  
19 envision that we will continue to do so as we move into  
20 the implementation.

21 A. (Witness Mallard) Yeah. And customer  
22 protection is of utmost importance to the company. I know  
23 it is to the solar marketplace, as well. So we want to  
24 make sure that customers are protected from -- from, you  
25 know, all types of providers. Both the ones that we know

1 locally and maybe some new ones that might be invited into  
2 the marketplace based on the rollout of a new program.

3 Q. Has the company considered having installers  
4 be certified and registered to be able to offer this  
5 program to their customers?

6 A. (Witness Beppler) We have not explicitly  
7 considered that. Again, working with our implementation  
8 partner, we are aware that there are some peer programs  
9 who have some of those similar qualifying requirements.  
10 So we'll lean on the expertise of the implementing partner  
11 to help identify some -- that or additional consumer  
12 protections.

13 Q. Great. How do you intend to -- this is my  
14 last line of questioning. How do you intend to procure  
15 the implementation partner?

16 A. (Witness Beppler) Through an RFP process.

17 Q. And how long do you think that will take?  
18 Should this be approved, of course.

19 A. (Witness Beppler) Itself, I -- I envision,  
20 following a hypothetical approval from this Commission,  
21 that's something we would do akin to do what we do on the  
22 demand-side programs. So in the third quarter of this  
23 year, we would prepare and put forward to the market that  
24 RFP.

25 Q. Do you anticipate a start date for the

1 program?

2 A. (Witness Beppler) We -- we don't have a  
3 particular date identified. As you mentioned, we will  
4 have to go to the market to identify that implementation  
5 partner.

6 Based on responses that we heard from our  
7 RFI, you're looking at probably four to six months from  
8 selection of that partner to enable customer enrollment.  
9 So I think the midpoint of 2026 is probably a reasonable  
10 expectation for when we could begin enrolling customers if  
11 this program is approved.

12 MR. MORELAND: Okay. Thank you. I  
13 appreciate it.

14 Thank you, Commissioners.

15 CHAIRMAN SHAW: Thank you. Georgia WAND and  
16 Vote Solar.

17 MS. KVIEN: Good afternoon, Commission. Can  
18 you hear me all right?

19 CHAIRMAN SHAW: You might want to just  
20 straighten that thing up and pull it a little  
21 closer to you.

22 MS. KVIEN: Thank you.

23 CROSS-EXAMINATION

24 BY MS. KVIEN:

25 Q. First, I had some clarifying questions for



1 the Panel about the company's proposal to expand  
2 eligibility under EASE and Hope Works to moderate-income  
3 customers?

4 A. (Witness Mallard) Could you speak up just a  
5 little, please.

6 Q. I will. Is this a little bit better?

7 A. (Witness Mallard) Yes.

8 Q. All right. Thank you.

9 I have hearing problems myself, so I  
10 definitely understand.

11 If I understand the company's testimony  
12 correctly, it has not yet determined how it will define a  
13 moderate-income customer, and it plans to define this  
14 during program implementation; is that correct?

15 A. (Witness Goff) That's correct. And just to  
16 clarify, it's the expansion of the definition for EASE.  
17 In program design, we anticipate that going up to maybe  
18 300, possibly even 400 percent of the federal poverty  
19 level. But ultimately, we will allow our implementers  
20 some flexibility, and all of those detailed plans will be  
21 shared with staff for input prior to us going to market.

22 Q. Thank you. Does the company plan to lump  
23 low- and moderate-income customers together into a single  
24 LMI class for purposes of determining EASE and Hope Works  
25 eligibility, or does it plan to use its existing

1 low-income classification and separately define moderate  
2 income for purposes of eligibility determinations?

3 A. (Witness Goff) Make sure I'm familiar with  
4 what your -- say it one more time, to make sure I'm  
5 familiar with the existing classification you're  
6 describing.

7 Q. The existing eligible customers.

8 A. (Witness Goff) So currently, EASE and Hope  
9 Works are based on income qualified customers, so that's  
10 currently defined as 200 percent of the federal poverty  
11 level. That's what's being implemented during this cycle.  
12 What we're proposing here is an expansion of EASE going  
13 into the next cycle.

14 Q. And that would be treated as a single class  
15 of eligible customers?

16 A. (Witness Goff) And when you say "class," I  
17 think, like, class of customers, like, residential,  
18 commercial, industrial.

19 Q. Oh.

20 A. (Witness Goff) Maybe that's not what you  
21 mean.

22 Q. That was not my intent. I just meant were  
23 you going to have one definition that encompassed all of  
24 the eligible customers?

25 A. (Witness Goff) So we would let the

1     implementor determine those actual qualifications. Again,  
2     those detailed programs/plans will be shared with staff.  
3     Once we determine what those qualifications are, our  
4     implementation team will work very hard with that  
5     implementor to make sure that we're targeting those  
6     customers in the most need in order for us to hit those  
7     program goals.

8             Q.     Thank you.

9                     And have funds allocated to these programs  
10     ever been underutilized or not been fully spent in  
11     previous years?

12             A.     (Witness Goff) I don't have the actual spend.  
13     I don't know off the top of my head where we were compared  
14     to that, but I do know that we have expanded the measures.  
15     We've expanded the income qualification, and, again, we're  
16     targeting, like, 17 times more homes in the proposed case  
17     than what we're implementing today.

18             Q.     Thank you.

19                     Would you agree that, as a general matter,  
20     low-income customers who could usually benefit the most  
21     from these types of programs are often the least likely to  
22     participate unless there is targeted outreach and support?

23             A.     (Witness Goff) I don't know, but I do know we  
24     do have a lot of experience implementing programs for our  
25     customers in the most need. And, again, we're expanding

1 these programs. We want them to be successful. We work  
2 with the DSM working group. We work with staff. We work  
3 with our implementation team, with our third-party  
4 implementor, in order to get that outreach and to target  
5 the customers.

6 With EASE and Hope Works, there's a  
7 \$5,000-cap per home. So, in other words, these customers  
8 benefit by no-cost improvements for them based on the  
9 programs that we've laid out. So there is a benefit to  
10 these programs that helps the customers have more comfort  
11 in their home. They get the benefit of those  
12 energy-efficiency savings, and hopefully it reduces their  
13 bill through the participation in these pathways.

14 Q. Thank you.

15 Does the company have a plan in place to  
16 conduct that outreach for the expanded newly eligible  
17 customers for these programs?

18 A. (Witness Goff) Not today. And, again, we  
19 want to go through that RFP process. We want to allow the  
20 flexibility for the implementor to bring best practices,  
21 and those plans will be shared with staff for input. So  
22 we do want that outreach to be successful.

23 And then as we continue to implement, the DSM  
24 working group presumably will continue to meet. So to the  
25 extent that there's feedback and we can continue to work

1 with that group through that implementation from '26 to  
2 '28 to continue to incorporate best practices, we will.

3 Q. Thank you.

4 I'd like to next discuss the company's  
5 proposed modifications to the DG RFP process and its plans  
6 for the two DG RFPs.

7 A. (Witness Mallard) Yes.

8 Q. The company testified earlier that there were  
9 a number of challenges that required modifications to  
10 enhance its RFP procurement processes, and that was on  
11 page 26 of your testimony. The company also testified  
12 that it has not procured the full amount of resources in  
13 the past several DG RFPs. With the improvements that the  
14 company is proposing to the DG RFP process, does the  
15 company expect to be able to procure a larger percentage  
16 of, or the full amount of DG resources that it is approved  
17 for?

18 A. (Witness Mallard) Yes. The company expects  
19 the enhancements to the RFP process will make the RFP more  
20 successful overall, that combined with the procurement  
21 targets at 250 megawatt RFPs in a three-year cycle. We do  
22 think that's the most efficient allocation of those  
23 megawatts. And, yes, we're optimistic that those RFPs  
24 will be able to achieve those targets.

25 But, again, we're bounded by procuring

1 resources that provide benefits to customers. We're going  
2 to stop. We're going to not procure more expensive  
3 resources just to meet a target. If they don't provide  
4 benefits to all customers, we're not going to select those  
5 in the RFP.

6 Q. Understood.

7 Did I understand correctly the company's  
8 testimony earlier that the amount of DG resources selected  
9 for RFPs -- or for these two RFPs was informed by the  
10 amount procured in previous RFPs?

11 A. (Witness Mallard) That's right. That's  
12 right. In the 2016, just short of 90 megawatts. Similar  
13 for the RFP in the 2019 cycle. In the 2022 cycle, there  
14 were two RFPs, and the first one procured around  
15 42 megawatts. There's good response to the ongoing RFP,  
16 so we expect to hopefully be in that ballpark or more.

17 And so, yes, those procurements over the  
18 three-year cycle informed our selection of 100 megawatts  
19 for this cycle split into two separate RFPs.

20 Q. Thank you.

21 If the amount of DG resources in these RFPs  
22 was informed by the amount procured in previous RFPs,  
23 which had issues fully procuring resources, and at least  
24 in part because of necessary process improvements that the  
25 company is now making, in what ways has the company

1 considered that in setting its 100-megawatt target?

2 A. (Witness Beppler) I'm sorry. Will you repeat  
3 that question one more time?

4 Q. Sure. So if the company has had issues  
5 procuring the full amount of DG resources in the last  
6 several DG RFPs, and the company's target -- current  
7 target was informed by those previous RFPs, essentially,  
8 I'm asking why are those previous RFP results an  
9 appropriate guide for setting the 100 megawatt target now?

10 A. (Witness Mallard) Understood. Using the  
11 information from the previous RFPs is appropriate because  
12 we're basing it on selected projects, not the targets from  
13 those RFPs. I would agree, it wouldn't be appropriate to  
14 base the current RFP target on the old targets. Instead,  
15 one of the improvements is we've looked at the results  
16 from the prior RFPs. Those are the amount of megawatts  
17 that have proved beneficial to customers, looking at their  
18 price and the benefits they offer when compared to avoided  
19 costs. So it's the fact that we're basing it on selected  
20 projects that gives us confidence that that's a reasonable  
21 target for the next RFP cycle.

22 Q. Would you agree that DG resources offer  
23 important reliability and resiliency benefits to the grid?

24 A. (Witness Mallard) DG resources offer  
25 reliability benefits to the extent they add capacity value

1 and energy to the system. Resiliency, if we're talking  
2 about recovery from or avoidance of a grid outage, a solar  
3 facility by itself without battery storage doesn't provide  
4 very many resiliency benefits. That's a reason that the  
5 company proposes adding battery storage to the upcoming  
6 RFP is to get some additional resiliency benefits from  
7 these resources.

8 Q. And to what extent has the company accounted  
9 for these reliability and resiliency, in the case of  
10 storage being present along with the project, in  
11 determining its procurement targets for DG resources?

12 A. (Witness Mallard) So to go back -- and we'll  
13 talk again about we use a little math and science to come  
14 up with the long-term target. These are energy resources.  
15 These resources are selected by Aurora because they're  
16 projected to save customers money, provide benefits over  
17 the life of the assets if procured at economical prices.

18 Then the allocation between utility scale and  
19 DG is made as a policy decision by the Public Service  
20 Commission through this IRP processes. Then the amount of  
21 resources that's selected is based on the RFP evaluation  
22 process using the RCB solar-avoided costs, and the  
23 Commission approved an evaluation model that we use in our  
24 RFPs.

25 It takes into account the benefits that the



1 project provides, including the avoided energy, any  
2 capacity benefit that they might bring is also evaluated,  
3 as well as other components in the RCP framework that are  
4 all considered, ultimately, in that value proposition that  
5 the company secures through those RFPs.

6 Q. Thank you.

7 I have a few questions about the company's  
8 solar and storage program proposal as well. You mentioned  
9 earlier in your testimony that the 50-megawatt target for  
10 the solar plus storage program is a target and not a cap;  
11 is that correct?

12 A. (Witness Beppler) Yes.

13 Q. In practical terms, what is your distinction  
14 between a "target" and a "cap"?

15 A. (Witness Beppler) I think a "cap" implies  
16 scarcity and the removal of the option to go beyond that;  
17 whereas, a "target" is more about an achievable level that  
18 we can implement without implying that those opportunities  
19 won't be available for future participation.

20 Q. Thank you.

21 You testified earlier that if the company  
22 were to meet one of the 25-megawatt targets within the  
23 greater 50-megawatt target for the solar plus storage  
24 program before the next IRP, the company would return to  
25 the Commission before allowing more participation; is that

1 correct?

2 A. (Witness Beppler) Yes.

3 Q. If the target is named as such because it's  
4 not meant to be a cap, why is the company proposing it in  
5 a way where it might be necessary to return to the  
6 Commission before allowing further participation in the  
7 program? In what way is that distinguishable from a cap?

8 A. (Witness Beppler) As we've mentioned,  
9 Commissioners, this is a pilot, and so we do want to  
10 continue learning through the implementation. We think  
11 25 megawatts in each of these channels is sufficient to  
12 gain enough learnings about feedback and potential  
13 modifications that we would return to the Commission.

14 It is distinguished from a cap in that a cap  
15 would imply that you wouldn't continue beyond that, and we  
16 absolutely have the intention that, when we would return  
17 to the Commission, it would be to make modifications to  
18 allow us to continue offering the program.

19 Q. Has the Commission previously raised caps on  
20 programs that Georgia Power has proposed or put into  
21 effect?

22 A. (Witness Beppler) Yes. A good example is the  
23 residential demand response. So if you look back at the  
24 levels in 2022, that was at 25,000 devices, I think. What  
25 got approved in the '23 IRP update was a doubling of that

1 program to 50,000 devices. We're here seeking approval in  
2 this case for a tripling, so it would potentially reach  
3 150,000 devices.

4 So, yeah, I do think there is precedent where  
5 successful programs have continued to be expanded.  
6 Ultimately, that would be a Commission policy decision.

7 Q. But you would similarly return to the  
8 Commission for essentially permission to raise your  
9 target; is that correct?

10 A. (Witness Beppler) That's right.

11 Q. Does the company have any specific plans for  
12 a stakeholder review to expand the program based on the --  
13 based on any early success of the program or high demand?

14 A. (Witness Beppler) I don't know that we've  
15 outlined any specific details, but as we've said  
16 consistently, across all of our program offerings, we are  
17 trying to incorporate feedback and would anticipate doing  
18 that in this program as well.

19 A. (Witness Mallard) Yeah. We would anticipate  
20 making a program filing, if the program is approved in the  
21 IRP, subsequent to the IRP, with more of the details of  
22 the program for Commission approval. And so through that  
23 process, more feedback could be input into the program.

24 Q. Thank you.

25 In the company's testimony, the company said

1 it was addressing upfront cost barriers for  
2 low-to-moderate-income customers through the removal of  
3 the discount factors application to customers in these  
4 segments and the allowing of the stacking of funding  
5 sources. Are there any further ways that the company is  
6 addressing barriers to LMI participation?

7 A. (Witness Beppler) I will highlight one  
8 additional opportunity, which is in the customer-directed  
9 option. We have the ability for stand-alone storage to  
10 participate through that channel, so you wouldn't  
11 necessarily have to have available roof space to  
12 participate in that participation channel.

13 Q. Thank you.

14 What plans, if any, does the company have to  
15 do outreach to low-to-moderate-income customers on this  
16 program?

17 A. (Witness Beppler) As we've mentioned, we've  
18 been in collaboration with some other potential sources of  
19 funding, including those solar-for-all dollars. We think  
20 that's a really cost-effective way to target those  
21 populations.

22 Q. And when the company was designing the  
23 company-directed option under the solar plus storage  
24 program, did the company consider granting participants a  
25 very limited degree of opt-out ability so that the company

1 would maintain control for the vast majority of the use of  
2 the system, but the customer would have a limited chance  
3 to opt out during, maybe, emergencies? For example, one  
4 or two opt-outs per year?

5 A. (Witness Beppler) We did not explicitly  
6 consider that in designing the program, no.

7 Q. Moving on to my last topic, I'd like to  
8 discuss the company's DSM efforts with data centers and  
9 large-load customers. You testified earlier that the  
10 company has engaged with large-load customers like data  
11 centers about demand-side flexibility?

12 A. (Witness Goff) That's correct.

13 Q. In this engagement, has the company asked its  
14 large-load customers what it might -- what might be  
15 lacking from its current DSM program offerings to further  
16 incentivize their participation?

17 A. (Witness Beppler) Yes. One of the things  
18 that we heard was large-load customers had a preference  
19 for customer ownership of assets that might participate in  
20 a DER program, and we've addressed some of that feedback  
21 with the new offering that we've put forward in this  
22 filing, the large-customer-owned resiliency program.

23 A. (Witness Goff) And as we spoke to before,  
24 there are options available for data centers to  
25 participate in our DSM programs. That's not the focus of

1     them, but they absolutely have the option to participate.  
2     Those measures included -- data centers are some of the  
3     largest energy users, and they have every incentive to be  
4     as efficient as they can. They're extremely sophisticated  
5     and monitor this stuff. So, you know, for those reasons,  
6     there are options. And we'll continue to get feedback,  
7     but that's something to just consider.

8             Q.     Thank you.

9                     Were there any other -- just wanted to make  
10     sure, were there any other things that those customers  
11     identified as potentially lacking from current DSM  
12     programs, besides the one example?

13             A.     (Witness Goff) Again, "lacking" -- I don't  
14     think that there's a lack. I think these are extremely  
15     large, sophisticated companies, and they have every  
16     incentive to do this on their own. There are options  
17     available to them, and so they can participate. But, you  
18     know, to the extent they're able to, that's great, but  
19     they also are potentially doing that on their own as well.

20             Q.     Has the company discussed with these  
21     large-load customers about how just a small amount of  
22     flexibility on their part during peak periods could result  
23     in systemwide benefits for all customers, including a  
24     lower-per-unit cost of electricity, a reduction of the  
25     likelihood that expensive new peaking plants or networks

1 needed to -- would be needed to accommodate that new load?

2 A. (Witness Goff) That is an industry  
3 conversation. I think that is absolutely being had across  
4 the industry. Dr. Beppler mentioned the DCFlex initiative  
5 going on with EPRI. And, you know, data centers have  
6 expressed an interest in being partners in the grid.

7 Georgia Power has proactively brought  
8 programs to this Commission to allow for that flexibility  
9 and for those resiliency assets and other things to be  
10 used for the benefit of all customers. So a variety of  
11 options from a DER space. And as Dr. Beppler mentioned  
12 before, from a curtailable load perspective, from a rate  
13 perspective, the tools are there from a Georgia Power  
14 perspective. We've brought forward additional options in  
15 this IRP to continue to expand that portfolio.

16 Q. Given that data centers represent a vast  
17 majority of load growth in Georgia, and that even a small  
18 amount of flexibility from those customers could yield  
19 system benefits, is there a reason the company has not  
20 developed a data-center-specific DSM program to help  
21 realize those DSM benefits?

22 A. (Witness Goff) These are sophisticated large  
23 users. To create a program, stand-alone, for them --  
24 again, we typically don't do that. We like to have  
25 programs that can all bucket under one program. That

1 reduces administrative costs, it makes things more cost  
2 effective. And so to carve out another program for data  
3 centers alone, you know, I think we would be concerned  
4 about the cost effectiveness of that, given the potential  
5 benefits that would provide.

6 A. (Witness Beppler) And I'll add there that our  
7 existing DSM programs are funded by all residential and  
8 commercial customers, so restricting eligibility of  
9 participation to just one specific type of customer would  
10 be inappropriate.

11 A. (Witness Phillips) And we have a number of  
12 measures or energy-efficiency options available to data  
13 center customers, whether it is around more  
14 energy-efficient servers, around whether it's a building  
15 envelope, or some of the systems for cooling the facility.  
16 Those options are already existing in our current  
17 programs.

18 A. (Witness Goff) The options are there, and we  
19 feel like we've provided them in a cost-effective way.

20 Q. You earlier testified in response to  
21 Mr. Sherrier that you have not offered incentives, like  
22 faster interconnects, for customers who are willing to  
23 provide a certain amount of load flexibility; is that  
24 correct?

25 A. (Witness Beppler) No, I would disagree. I



1 think the testimony was actually that the new program  
2 offering is intended to do exactly that, which is expedite  
3 some of the timelines associated with participation in  
4 those programs and getting that capacity reflected on  
5 ledger for the benefit of all customers.

6 Q. All right. Thank you.

7 Has the company engaged with other utilities  
8 in the country about programs that they have offered that  
9 are designed to encourage data centers and large-load  
10 customers load flexibility, such as PG&E's Flex Connect  
11 program that allows those loads to be connected faster in  
12 exchange for flexibility at the margin when the system is  
13 constrained?

14 A. (Witness Goff) We have engaged with other  
15 utilities across the industry. I don't know about PG&E  
16 specifically, but, yes, we absolutely are engaging across  
17 the industry. Any best practices we can learn, we always  
18 want to learn best practices.

19 Q. Were the company's existing demand-response  
20 programs designed with modern data centers specifically in  
21 mind or were they designed with more traditional customers  
22 in mind?

23 A. (Witness Beppler) I think it depends  
24 specifically on the program that you're referring to.  
25 Certainly, we think the structure of those programs makes

1     them suitable for participation from our traditional  
2     industrial customers, but also for these new data center  
3     customers that you describe.

4             Q.     Do you believe that the company's existing  
5     DSM programs offer benefits and incentives tailored to the  
6     uniqueness of participants like certain data centers who  
7     would be able to have near-instantaneous response by  
8     adjusting workloads?

9             MS. PRYOR:  Objection.  I'm sorry, but the  
10     witnesses have answered these questions multiple  
11     times.

12            COMMISSIONER PRIDEMORE:  So many times.

13            MS. PRYOR:  Asked and answered.

14            CHAIRMAN SHAW:  Please try to stick to  
15     questions that have not already been asked.

16            MS. KVIEN:  I'm sorry.  I thought I was  
17     addressing a unique point there about instantaneous  
18     response.  Apologies if it was already covered.

19            I will conclude my questions there.

20            CHAIRMAN SHAW:  Okay.

21            MS. KVIEN:  Thank you.

22            CHAIRMAN SHAW:  Next is MARTA.

23                    CROSS-EXAMINATION

24     BY MS. STURM:

25             Q.     Good afternoon, Commissioners.  Good

1     afternoon, Panel. I'm going to turn our attention to a  
2     totally different topic, the V2G program. One, let me  
3     commend you-all for adding that. I think that's a great  
4     pilot program to bring in. I'm curious, was any  
5     consideration given to expanding that program or maybe  
6     doing a companion program to incorporate public  
7     transportation fleets?

8             A.     (Witness Beppler) Yeah. I don't know that  
9     we've explicitly considered that to this point, but that's  
10    something we would certainly be open to in the future,  
11    yes.

12            Q.     Well, you answered my second question.

13            MS. STURM: Thank you. That's all I have.

14            CHAIRMAN SHAW: All right. Microsoft.

15            MR. DOWDY: No questions, Mr. Chairman.

16            CHAIRMAN SHAW: Resource Supply Management.

17                    CROSS-EXAMINATION

18    BY MR. BAKER:

19            Q.     Good afternoon, Commissioners. Good  
20    afternoon, Panel.

21            A.     (Multiple Witnesses) Good afternoon.

22            Q.     Robert Baker for Resource Supply Management.  
23    A few preliminary questions. Could you tell me if Alabama  
24    Power and Mississippi Power have DSM programs also?

25            A.     (Witness Beppler) I'm not sure that that's

1       germane to the Georgia Power IRP.

2               Q.       Well, let your attorneys make that -- I'm  
3       asking in regard to, first, do they have them? Are there  
4       programs that are in place in Mississippi and Alabama that  
5       Georgia Power can get the benefit of their experience and  
6       apply it here in Georgia? Or vice versa, Georgia apply in  
7       your sister companies?

8               A.       (Witness Goff) Yeah, I --

9               A.       (Witness Phillips) I believe they do have  
10       programs. I'm not familiar with the specifics of either  
11       the Mississippi or Alabama Power programs.

12              A.       (Witness Goff) Well, and as we stated before,  
13       we do look for best practices across the industry. We  
14       absolutely want to incorporate the best practices that we  
15       can for the benefit of our customers here in the state.

16              Q.       Thank you. Thank you.

17                      Of Georgia Power's approximately 2.7 million  
18       customers, about how many of your customers participate in  
19       the DSM programs today, just approximately?

20              A.       (Witness Goff) I don't have those numbers.  
21       In general, there are more customers, from a customer  
22       count perspective, that participate in our residential  
23       programs, but a lot of energy savings come from our  
24       commercial programs. So it may be more savings per  
25       customer on the commercial side. I don't have the

1 customer count here with me today. That might have been  
2 a -- that might have been in a DR somewhere, I can't  
3 remember.

4 Q. Okay. So you wouldn't know if it was  
5 10 percent participation or 15 percent or anything?

6 A. (Witness Goff) I don't. But what I can say  
7 is that, again, we have been at these programs for a long  
8 time. We've proposed some additions to our program plans  
9 for this cycle, and with the Commission's approval, would  
10 anticipate being in those programs in the future. So as  
11 you zoom out and look over a long period of time, you  
12 know, hopefully, we're providing, and our aim is to  
13 provide benefits to as many customers as we can.

14 Q. Thank you.

15 And how do you define "a participant" in the  
16 DSM program? And I'll refer you to your Appendix B  
17 entitled, "Summary Of DSM Program Participation."

18 A. (Witness Phillips) What was that appendix?

19 Q. Appendix B.

20 A. (Witness Phillips) Is that in the application  
21 for certification of DSM?

22 Q. It was attached to your testimony, part of  
23 your testimony.

24 A. (Witness Goff) Appendix B, Summary of DSM  
25 Program Participation?

1           Q.     I understand from your attorney it's the  
2 application.

3           A.     (Witness Goff) Yes, sir. Appendix B, Summary  
4 of DSM Program Participation.

5           Q.     Yes, ma'am.

6           A.     (Witness Goff) Yes.

7           Q.     How do you define "a participant"?

8           A.     (Witness Goff) So in this exhibit, and I'll  
9 invite Mr. Phillips to weigh in here too. This is labeled  
10 the number of installed measures, so this would be a  
11 projection of the number of installed measures for both  
12 residential and commercial, by program, for the forecasted  
13 period.

14          A.     (Witness Phillips) And it's certainly  
15 possible that one customer could install multiple of these  
16 measures. I think that's obvious, given the fact that in  
17 2026 we're projecting 3.7 million measures, which is above  
18 the number of unique customers that we have.

19          Q.     All right. So if somebody was having their  
20 home energy -- made energy-efficient, if they replaced  
21 four windows, that would be considered four  
22 participation --

23          A.     (Witness Phillips) Four unique measures --  
24 four unique installations of that particular measure, yes.

25          Q.     All right. Thank you.

1                   And on the chart, something that just struck  
2 me is that in some of the categories, they don't change.  
3 The numbers don't change over the 12-year period that that  
4 chart covers. Why is that? Why is there no -- I could  
5 point you to -- the residential demand response is 150,000  
6 throughout the entire 12-year period, commercial custom is  
7 456 throughout the 12-year period. Why no fluctuation  
8 or --

9                   A.       (Witness Phillips) The reason for no  
10 fluctuation in the demand-response program is, like  
11 Dr. Beppler just testified, historically that has been  
12 capped at the number of devices approved by this  
13 Commission. So in the '22 IRP, that number was 25,000;  
14 the '23 IRP update, that number was raised to 50,000; now,  
15 we're seeking approval to increase that number to 150,000  
16 for this particular IRP.

17                  A.       (Witness Goff) And we have expanded the  
18 definition of that program for to be residential  
19 demand-response. So what we have included here is we have  
20 evaluation results on the thermostats, so that's what  
21 we've included from a program design.

22                         As we go through an RFP and select an  
23 implementor, we would be open to a pay-per-performance  
24 model if someone were to bring that, to allow for other  
25 connected devices, if an implementor could achieve those

1 savings within the budget that's approved by this  
2 Commission.

3 Q. Let's say for commercial customers it's 456.  
4 Is that also limited by a cap on participation?

5 A. (Witness Goff) So the commercial custom  
6 program -- and it may be either outlined in the program  
7 plans or in the work papers we've provided -- there are  
8 incentive caps associated with that program. We have  
9 expanded those caps in order to generate larger projects  
10 with larger savings in order to meet these aggressive  
11 targets laid out in the proposed case.

12 Q. Okay. Thank you.

13 For every dollar spent on DSM programs, how  
14 much -- approximately how much goes to customers? Is it  
15 about 25 percent, or what would you estimate, based on  
16 your knowledge?

17 A. (Witness Phillips) Are you asking about  
18 specifically incentives that --

19 Q. Incentives, the rebates that are offered  
20 through the DSM program. So I'm not asking for a specific  
21 dollar amount, but, I mean, about how much of that money  
22 goes directly to the customers?

23 A. (Witness Phillips) Well, I think our entire  
24 incentive budget would go to the customers. Historically,  
25 and I believe in the '22 IRP, on average we were funding



1 about 50 percent of the total incremental costs towards  
2 incentives. And then as we have already stated, in our  
3 proposed case, a number of the programs, we are asking for  
4 funding up to 100 percent incentive for those programs and  
5 those measures.

6 A. (Witness Goff) So give or take, 80 percent of  
7 total budget is incentives, and 100 percent of those  
8 incentives go to the participating customer. The entire  
9 cost of the program is borne by all residential and  
10 commercial customers.

11 Q. Thank you.

12 General question, there has -- with the new  
13 Trump administration and the policies that the Trump  
14 administration either has implemented or what reasonably  
15 could be expected will be implemented, would any of those  
16 have an impact on the programs that you have been putting  
17 forward?

18 A. (Witness Goff) No, and this is something  
19 that, over the years, the company has always designed its  
20 programs to meet the goals with the budgets that are  
21 approved through this process. To the extent federal  
22 funding is available, then that is just an added benefit  
23 to customers where they can take advantage of additional  
24 funds, but our goals are not predicated on that funding  
25 being available. So that doesn't impact what we've laid

1 out in our proposed case.

2 Q. I wasn't thinking so much as funding as far  
3 as just policy -- total policy direction. I think you  
4 probably agree that the Trump administration is probably  
5 going to go 180 degrees from what the Biden administration  
6 had proposing in the past or implemented in the past.

7 A. (Witness Phillips) I'm not aware of any  
8 specific changes to the proposed case that would result  
9 based upon changes at the federal level. Doesn't mean  
10 it's not, I'm just not aware. I do think from an economic  
11 standpoint, for the proposed case, the company evaluated  
12 cost-effectiveness under an MGO economic scenario and a  
13 111 economic scenario. And depending upon what might  
14 happen with some of those rules and legislations, it could  
15 affect the cost-effectiveness, but I think that's another  
16 reason why the company did provide two different views of  
17 economics for the proposed case for this Commission's  
18 consideration.

19 Q. Thank you.

20 And the company submitted, or developed, four  
21 DSM case projects -- case evaluations, and the proposed  
22 case, which is the one that the company is putting  
23 forward, is their recommended case?

24 A. (Witness Phillips) Correct.

25 Q. And isn't one of the company's objectives in

1 the DSM program to minimize upward pressure on ratepayer  
2 rates?

3 A. (Witness Phillips) That is one of the  
4 considerations. Ever since the 2004 IRP, the Commission  
5 directed Georgia Power to bring forth a proposed case that  
6 accomplishes two things: Number one, maximize energy  
7 efficiency, while at the same time minimizing upward  
8 pressure on rates.

9 For this particular IRP, based upon the  
10 results of the Vogtle prudence order, the company was also  
11 directed to file the case that achieved .75 percent of  
12 savings -- .75 percent based upon retail sales, so that's  
13 what our proposed case has included.

14 Q. And that goal would not be achieved through  
15 the capacity and affordability case?

16 A. (Witness Phillips) No. The .75 percent of  
17 retail sales was specifically for the proposed case. That  
18 does result in significant costs, both from an annual  
19 perspective as well as upward pressure on rates and costs  
20 to nonparticipants. As noted in the testimony, the  
21 capacity and affordability case was offered as another  
22 view, another consideration, at lower levels, lower costs,  
23 and lower impact or upward pressure on rates.

24 A. (Witness Goff) And while it doesn't target  
25 .75 percent of sales, it does have other benefits, like we

1 described earlier, in terms of -- it targets programs with  
2 the most capacity benefit and targeting customers with the  
3 most need. It's just an option. Like you mentioned  
4 before, there's lots of options out there, and our case is  
5 the proposed case.

6 Q. For the affordability -- for the capacity and  
7 affordability case, what retail savings does it achieve?

8 A. (Witness Goff) Oh, okay. So the capacity and  
9 affordability case targets or it achieves 310 gigawatt  
10 hours per year of energy reduction; 156 megawatts per year  
11 of demand reduction; at annual budgets of 140 million.  
12 And, again, that compares to the current cycle of  
13 500-gigawatt hours of energy \$90-million budgets, and the  
14 proposed case of 741-gigawatt hours at \$570- to  
15 \$580-million budgets.

16 Q. But your goal here for the proposed case is  
17 .75 percent of total retail sales. What percentage of  
18 total retail sales would be projected to be achieved  
19 through the capacity and affordability case?

20 A. (Witness Goff) So in general, the company  
21 has, I think, about 100,000-gigawatt hours of sales in its  
22 forecast. So whatever 310 is divided by that number, give  
23 or take. But just to reiterate, the capacity and  
24 affordability case is a subset of programs that are  
25 targeting programs with the most capacity benefit and

1 targeting customers in the most need. It's not  
2 necessarily generated to achieve a certain percent of  
3 energy sales.

4 A. (Witness Phillips) The 308, 310-gigawatt  
5 hours that Witness Goff spoke of, is about half of the  
6 741-gigawatt hours. And so relatively, the percent of  
7 total retail sales would be a little less than half of  
8 what the proposed case is achieving.

9 Q. Okay.

10 A. (Witness Goff) But again, the focus is not --  
11 the focus, like we described, is programs delivering the  
12 most capacity benefit and targeting the customers in the  
13 most need.

14 Q. Understood. Understood. But as, I think, as  
15 somebody here said, very on point, is that everything has  
16 a cost. Every -- I think maybe Mr. Mallard was talking  
17 about a different subject, but he basically said, I  
18 think -- purchasing solar, it may have been -- and that  
19 there's a cost for everything, and -- related to the  
20 benefit that you receive, so... In this particular case,  
21 I believe your prior testimony has been that the current  
22 budget is approximately \$90 million, and that could  
23 project -- you're estimating it's going to go up to  
24 \$570 million. Would you agree that that's going to have a  
25 significant impact on the rider that is charged to every

1 single residential and commercial customer on Georgia  
2 Power's system?

3 A. (Witness Goff) So the information about the  
4 impacts to the DSM rider are included in our filing, in  
5 Appendix G of the DSM filing. So that information is made  
6 available.

7 To your point, everything in life, I guess,  
8 has a cost, and everything has a benefit. And for many  
9 IRPs, including this one, we come with our best plan. And  
10 ultimately through the process, we will look to the  
11 Commission to help us balance the cost with the benefits  
12 of what we put forward.

13 Q. Thank you.

14 And would you agree, or would you say, that  
15 it's true that Georgia Power Company can -- Georgia Power  
16 Company's marginal cost of power is much lower -- is lower  
17 than the alleged savings produced by the DSM programs?

18 A. (Witness Phillips) When you refer to "the  
19 marginal cost of power," can you be more specific?

20 Q. All right. It's the -- I'll refer you, then,  
21 to -- I believe it was page 44 of your testimony, in  
22 which -- let's see -- that was 44, line 15. Maybe it's --  
23 it referenced there in the testimony that 4 cents is more  
24 than the company's avoided cost. Let me change that to --

25 A. (Witness Mallard) So this section, Mr. Baker,

1 is talking about the company's solar-avoided-cost rate.

2 We discussed that a little bit earlier. That's the  
3 avoided cost projection that's calculated specifically  
4 based on solar energy's production curve. And so that  
5 amount is meant to represent the avoided energy costs of  
6 the solar system connected to Georgia Power's grid.

7 Q. Thank you. Now -- so you're saying that you  
8 don't know what the marginal cost of power generation is?

9 A. (Witness Beppler) I would disagree with that.  
10 I think you were asking a line of questions about DSM  
11 savings, and then referenced solar-avoided-costs  
12 calculations. Help us understand the connection.

13 Q. All right. I'll try to clarify my question.

14 Going back to the question, would you agree  
15 that the company's cost of marginal power generation is  
16 less than the cost of the -- less than the savings from  
17 the DSM programs?

18 A. (Witness Beppler) No. I would not agree with  
19 that.

20 Q. Why not?

21 A. (Witness Beppler) The savings associated with  
22 DSM measures are evaluated using the company's avoided  
23 costs. So Witness Phillips can speak more to this, but in  
24 the calculation of the cost-effectiveness tests, the  
25 company uses avoided costs, as you described, marginal

1 costs, to evaluate the benefits associated with offering  
2 those programs.

3 A. (Witness Goff) And those avoided costs are  
4 the same avoided costs that we use -- or marginal costs,  
5 for all of the program design that this panel is  
6 representing. So that's the benefit of this process is we  
7 have consistent assumptions, we have a flexible process,  
8 we continue to evaluate and update those things as part of  
9 this design.

10 A. (Witness Phillips) And I think I can provide  
11 a little more perspective. One of the first steps,  
12 Commissioners, in evaluating energy efficiency, from a  
13 cost-effectiveness standpoint, is identification of the  
14 benefits. And the benefits to the system are the avoided  
15 costs that are realized by participants installing and  
16 implementing energy efficiency.

17 The next step, once you've identified the  
18 benefits, are the costs. And depending upon the  
19 perspective, the costs might be different. But from a  
20 system perspective, the Georgia Power perspective, the  
21 benefits are the avoided costs that are realized by  
22 customers implementing energy efficiency.

23 Depending upon the specific tests, then you  
24 evaluate the costs, and you mentioned the upward pressure  
25 on rates. The RIM test quantifies what that upward



1 pressure on rates is. And the costs included in the RIM  
2 tests are the cost of the programs, both the program  
3 costs, the incentive costs, as well as the lost revenues  
4 that are realized by customers implementing energy  
5 efficiency.

6 And if RIM were equal to 1.0, or greater,  
7 then what that would tell us is that the benefits that the  
8 system is realizing is equal to the cost of the program,  
9 as well as the savings our customers realize by  
10 implementing energy efficiency, but that's not the case.  
11 RIM is negative. Energy efficiency is negative for this  
12 proposed case, as well as previous proposed cases.

13 And what the Commission has directed the  
14 company to do, as I mentioned since the 2004 IRP, is to  
15 seek a balance between maximizing energy efficiency while  
16 minimizing that upward pressure on rates.

17 Q. Thank you.

18 And do any of the residential DSM programs  
19 pass the RIM test?

20 A. (Witness Phillips) No.

21 Q. And --

22 A. (Witness Phillips) Excuse me. The energy  
23 efficiency programs do not pass the RIM test. I believe  
24 the thermostat DR program does past the RIM test.

25 Q. Okay.

1           A.       (Witness Phillips) Were you asking  
2 specifically about residential or commercial programs?

3           Q.       Residential. I was asking about residential.

4           A.       (Witness Phillips) Subject to check, I  
5 believe the only program that does pass the RIM test is  
6 the thermostat DR program.

7           Q.       Okay. Thank you for that clarification.

8                   At page 9, you state that by 2028 -- if you  
9 want to look, it's page 9, line 19. At page 9 you state  
10 that, "By 2028, the current DSM portfolio of  
11 1,400-megawatts will represent 8 percent peak saved,  
12 claimed overwhelmingly from realtime pricing customer  
13 response and not from DSM."

14          A.       (Witness Goff) I'm sorry. Do you mind saying  
15 the page reference one more time? Page 9 --

16          Q.       Page 9, line 19.

17          A.       (Witness Goff) 19.

18          Q.       You got it?

19          A.       (Witness Goff) Yes, sir.

20          Q.       At page 9 there, you talk about the DSM  
21 portfolio of 1,400 megawatts that represents 8 percent of  
22 the peak saved, and that will be claimed overwhelmingly  
23 from the realtime pricing customer response; is that  
24 accurate? Is most of that the savings coming from the  
25 real-time?

1           A.       (Witness Beppler) I don't see anything about  
2 real-time pricing in the lines you've highlighted in the  
3 testimony there.

4           Q.       All right. Well, then doesn't the DSM  
5 response only represent 225 megawatts of savings?

6           A.       (Witness Phillips) Could you ask that  
7 question again, Mr. Baker?

8           Q.       Doesn't the DSM response, as part of that  
9 1,400 megawatts, only represent 225 megawatts of savings?

10          A.       (Witness Goff) So the 1,400 megawatts in the  
11 testimony is -- and I think we might have mentioned this  
12 before, that's a broad number that incorporates things  
13 like DSM, RTP -- RTP -- nonroutine-RTP response, our CVR,  
14 or conservation voltage reduction program, DPEC,  
15 thermostat DR, so that is a broader number.

16                   But you are correct, the proposed case does  
17 deliver 224 megawatts of demand reduction based on the  
18 plans and the budgets that we've put forward in our  
19 proposed case.

20          Q.       Out of the 1,400 megawatts?

21          A.       (Witness Beppler) Can you ask the question  
22 again?

23          Q.       No. No.

24                   Is the 224 megawatts of savings part of the  
25 1,400 that you're claiming on page 9?

1           A.       (Witness Beppler) Yes. The 224 megawatts of  
2 demand reduction would be included in the 1,400 megawatts  
3 of demand reduction through 2028.

4           Q.       Okay. And if 224 megawatts of savings is  
5 from DSM, where did the other 1,200 -- approximately  
6 1,200 megawatts come from?

7           A.       (Witness Beppler) So I think the  
8 1,400 megawatts is including the existing portfolio of DSM  
9 measures, whereas the 224 is referring to the incremental  
10 savings from the newly proposed programs.

11          Q.       All right.

12          A.       (Witness Goff) And, again, the total 1,400  
13 includes things like DSM, our RTP -- nonroutine RTP  
14 response, DPEC, CVR, temp check. So it's a wide variety  
15 of programs, which I think is a benefit because we have a  
16 wide variety of things that we can count towards our  
17 resource ledger.

18                   To the extent the 224 megawatts through the  
19 proposed case is approved, then that number will adjust as  
20 we adjust all of those demand-side options and reflect the  
21 most up-to-date information on our resource ledger going  
22 forward.

23          Q.       Okay. Thank you.

24                   Referring -- I'm going to refer you to  
25 page 20, line 13. At page 20 you state, "The DSM program

1 economics are declining due to substantial resources and  
2 higher incentives needed to achieve high energy savings in  
3 the proposed case."

4 With declining program economic, shouldn't  
5 all failing DSM programs be eliminated?

6 A. (Witness Phillips) Mr. Baker, what line were  
7 you referring to?

8 Q. Thirteen, line -- page 20, line 13.

9 A. (Witness Phillips) And what was your  
10 question?

11 Q. The question is, with declining program  
12 economics, shouldn't all failing DSM programs be  
13 eliminated?

14 A. (Witness Phillips) Well, that's not our ask  
15 of this Commission. For the programs where we already are  
16 in the marketplace, where we already are engaged with our  
17 customers, we have asked the Commission to consider a TRC  
18 waiver for those failing programs. And several of those  
19 failing programs are programs specifically directed  
20 towards income-qualified customers. And this is not the  
21 first time we've asked for a TRC waiver. We did ask for  
22 one in the previous IRP for the thermostat DR program, due  
23 to the changes in system costs, and the costs that that  
24 program now helps avoid. That program is TRC positive.

25 And so while several of the programs in our

1 proposed case do fail TRC, we have asked this Commission  
2 to consider a waiver for those programs so that we can  
3 continue to be in the market, to offer those programs to  
4 our customers, especially our customers who are in  
5 greatest need.

6 A. (Witness Beppler) And I'd like to add, I  
7 think there are additional benefits to the company  
8 offering DSM programs in terms of customer expectations  
9 and customer satisfaction. This is an opportunity to  
10 provide customers agency over their energy decisions.

11 Q. But isn't it true that the company is  
12 eliminating some programs that don't meet the financing  
13 requirements, such as the refrigerator program? I'm sure  
14 customers would love to have you pay them to take away  
15 their old refrigerator, but you're ending the program  
16 because it doesn't make fin- -- it isn't financially  
17 sound. Why not -- isn't that -- shouldn't that be a  
18 policy for all DSM programs?

19 A. (Witness Goff) So we look to the Commission  
20 for the policy. Since 2004, the policy has been to  
21 maximize economic efficiency through TRC, while minimizing  
22 upward pressure on rates. We are asking for  
23 decertification of three programs: The residential  
24 refrigerator recycling, the residential specialty  
25 lighting, and the commercial behavioral.

1                   None of those are cost effective, and so  
2 those are programs that we're asking to discontinue. We  
3 are asking for four TRC waivers in our proposed case in  
4 order to meet .75 percent of sales. Two of those programs  
5 are targeting customers that are in most need.

6                   So when you look around the industry, it's  
7 not uncommon for those type of programs to actually be  
8 assumed of a TRC of one. So two of the waivers, even  
9 though in Georgia we are required to file those as a  
10 request to the Commission, I did just want to note that  
11 those are for that income-qualified and low-to-moderate  
12 customer base.

13               A.       (Witness Beppler) And I think as Witness Goff  
14 testified earlier, there's some other challenges that have  
15 been identified in the programs that we're seeking  
16 decertification for, in terms of implementation of  
17 applicability, or the market for implementors for those  
18 programs, that would make them difficult to continue going  
19 forward.

20               A.       (Witness Goff) Yeah. And I'm happy to go  
21 through those again, if that's helpful.

22               Q.       No, you've answered the question. Thank you.  
23 I appreciate it.

24                   You have a subscription, a utility scale and  
25 DG subscription program. When a customer subscribes to

1 one of those programs, is that energy or power from that  
2 program specifically dedicated or assigned to a -- that  
3 customer? Is that how it works?

4 A. (Witness Mallard) Definitely not. The whole  
5 purpose of allowing subscriptions to our renewable  
6 resource is to allow customers access to the REC: The  
7 Renewable Energy Credit. What they're really subscribing  
8 to fundamentally is the renewable attribute. Those  
9 attributes are measured on kilowatt-hour, megawatt-hour  
10 basis.

11 So it's a subscription to the energy. The  
12 benefits, the energy that the resources produce, actually  
13 go to serve the entire customer base. So the customer's  
14 just subscribing to the attribute, the Renewable Energy  
15 Credit.

16 Q. Okay. Thank you for that clarification.

17 And there's been some questioning and  
18 discussion about large-load customers and DSM programs.  
19 Is it your experience that energy conservation is just  
20 good business for large-load customers?

21 A. (Witness Beppler) I don't know that we can  
22 speak specifically for those customers. We do believe  
23 that particularly those large customers are sophisticated  
24 and able to make economic decisions on the costs and  
25 benefits of energy usage for themselves.



1           Q.     And then those customers will hire energy  
2 consultants to assist them, help reduce their energy load,  
3 to help make them more efficient, and to help reduce their  
4 costs of operation; isn't that generally true?

5           A.     (Witness Beppler) I think that's an option  
6 that's available to them.

7           Q.     And then most businesses are interested in  
8 being efficient and maximizing their earnings; isn't that  
9 true?

10          A.     (Witness Goff) We have a variety of programs  
11 for our commercial customers to help them be more  
12 efficient. The incentives that we offer do allow  
13 customers that may not have those funds available to  
14 incent more behavior and adopt more energy efficiency.

15                 So through the expansion of the caps in our  
16 commercial programs, we are targeting larger projects with  
17 larger savings in order to reach a larger goal through our  
18 proposed case.

19          Q.     Agreed. I'm just focusing on -- there's been  
20 some question about why large-load customers aren't  
21 included and don't have their own DSM programs, or data  
22 centers don't have their own DSM programs.

23                 Also, isn't one of the consequences of  
24 expanding DSM programs to data centers or to large-load  
25 customers that there's a cost of those programs that would

1 then have to be shifted or spread across all customer  
2 classes; isn't that correct?

3 A. (Witness Phillips) When you mention large  
4 loads, we have large industrial customers. We have large  
5 commercial customers. Could you be more specific what  
6 you're referring to when you say "large loads"?

7 Q. Anyone who is not currently a participant in  
8 the commercial DSM programs.

9 A. (Witness Goff) And so just to kind of recap:  
10 We do have options available for data centers, if they  
11 would like to participate in our DSM programs. There are  
12 options available to them. They're not precluded from  
13 that. There are options available.

14 We don't have a standalone DSM program in the  
15 DSM application for them. It's more cost effective to  
16 roll them into other DSM programs. There are also DER  
17 programs. There's rate options available. There's lots  
18 of options, I think, as we've kind of gone through, that  
19 Georgia Power has proactively brought to the Commission  
20 for approval to allow data centers to be flexible to  
21 provide benefits to the grid.

22 Q. And that's great, that the company is  
23 forward-thinking and is offering this to the data centers.  
24 But also, if they're offering these programs and the data  
25 centers participate, isn't there going to be a cost to the

1 company that the company will then have to recover?

2 A. (Witness Phillips) Well, there's certainly a  
3 cost of the programs. There is the cost of administering,  
4 there's the cost of incenting, and so there are costs  
5 realized whenever the company pays an incentive.

6 And so there are some costs -- we have to  
7 hire up. We have to hire contractors. We have to market.  
8 So there's a number of costs that the company will incur,  
9 and we recover that -- those costs through the DSM rider.  
10 What we have specifically asked this Commission for  
11 consideration is the proposed case. And from both a  
12 residential and a commercial perspective, those costs have  
13 been included and presented for this Commission's  
14 consideration.

15 A. (Witness Goff) So DSM costs, as Mr. Phillips  
16 mentioned, through the DSM riders; Dr. Beppler could speak  
17 to the way that the incentives for the DER programs are  
18 set up, whereby we're -- essentially, that shared-savings  
19 model that we've been talking about, based on avoided  
20 capacity costs.

21 Q. But what I -- I hear you. My -- my -- what I  
22 hear you say is that, if there are costs associated with  
23 the company implementing a DSM program for data centers or  
24 for large-load customers, those costs will be recovered  
25 from their ratepayers, residential and commercial

1 ratepayers; is that correct?

2 A. (Witness Goff) And we don't have a  
3 data-center-specific-DSM program. We do have commercial  
4 programs that they could participate in, if they would  
5 like, and those residential and commercial DSM dollars our  
6 request for the Commission is to approve the continued  
7 collection of our DSM dollars through the DSM riders  
8 through the rate case process.

9 A. (Witness Beppler) And I'll just add that  
10 those commercial customers, if they are large loads also  
11 contribute to the DSM rider, and so are paying for some of  
12 those costs as well.

13 A. (Witness Phillips) And, Mr. Baker, yes, all  
14 residential customers fund the DSM programs. All  
15 commercial customers fund the DSM programs, whether they  
16 choose to participate or not.

17 Q. Thank you.

18 MR. BAKER: Thank you, Panel, for your time.

19 Thank you for your answers. I appreciate it.

20 Thank you, Commissioners.

21 CHAIRMAN SHAW: Thank you, Mr. Baker.

22 Panel, do y'all need a break?

23 MR. PHILLIPS: Do we have an estimate on how  
24 much longer we've got?

25 CHAIRMAN SHAW: Yeah, we're going to try to

1 go to 5:45 or somewhere in there.

2 Keep rolling. All right.

3 Sierra Club, Southern Alliance for Clean  
4 Energy and the Natural Resources Defense Council.

5 MS. ARIZA: No questions.

6 CHAIRMAN SHAW: Southern Renewable Energy  
7 Association.

8 CROSS-EXAMINATION

9 BY MR. COX:

10 Q. Good afternoon, Commissioners, and Panel. I  
11 just have some brief questions about utility scale  
12 renewable resource procurement.

13 A. (Witness Phillips) Sure.

14 Q. And, first, I'd like to thank the panel for  
15 answering many of our questions, and the other parties for  
16 asking good questions. So turning to page 26 of your  
17 testimony.

18 A. (Witness Mallard) Yes.

19 Q. So on page 26 of your testimony, you mention  
20 that several challenges have limited the company's ability  
21 to meet its renewable RFP targets. Can you just briefly  
22 clarify and explain the issues that have limited the  
23 company's ability to meet its utility scale RFP renewable  
24 targets?

25 A. (Witness Mallard) Yeah. And I'll just go

1 down the list starting at line 16, so the changing  
2 interconnection processes and requirements, we've talked  
3 about that. The new cluster study process and how that  
4 FERC-governed-interconnection process might impact  
5 timelines and requirements for participants in our RFPs.  
6 The impact from regulatory uncertainty -- gosh, we could  
7 spend a long time talking about the potential changes that  
8 might be on the horizon to tax credits, to incentives, to  
9 tariffs, otherwise, that -- other policy changes that  
10 might impact solar development and procurement.

11           Increasing scrutiny in land use, the Chairman  
12 has mentioned this one already. There's more and more  
13 focus every day and month that goes by on land use, the  
14 impacts to the land in Georgia, and how to make sure that  
15 we're mitigating those impacts properly as solar continues  
16 to expand.

17           Supply chain impacts, that's still happening  
18 today. It's much better recovered since the COVID-era,  
19 but I know there's still a challenge to get both the solar  
20 components, battery components, but also the equipment  
21 needed for interconnection, whether that be long-lead-time  
22 transformers, or breakers, or that type of thing. Those  
23 are still in place.

24           And, lastly, we've discussed this, too. The  
25 difference in the timelines that it takes to build a solar

1 facility and that it might take to make the necessary  
2 improvements to the transmission system to allow for the  
3 interconnection and the delivery of that energy to our  
4 customers.

5 So that's not an exhaustive list, but those  
6 are some of the headlines, that are -- some of the  
7 challenges that we've been seeing through our  
8 utility-scale procurements.

9 Q. Okay. Thank you. So in light of these  
10 challenges, including changing regulatory policies, and  
11 tariffs and taxes, would the company be open to  
12 considering further enhancements to the procurement  
13 process and corresponding PPAs that would provide more  
14 flexibility in the face of regulatory uncertainty, and  
15 thus allow more developers to participate in the RFPs?

16 A. (Witness Mallard) What the company has put  
17 forth is a pretty extensive list of proposed enhancements  
18 to the RFP process, with that exact goal, to allow more  
19 flexibility, to allow more adaptability through the  
20 ability for expanded COD ranges and flexible CODs, through  
21 the ability to extend the RFP process.

22 And so the details of exactly how those  
23 improvements will be proposed and implemented will happen  
24 through the RFP process. That process, Commissioners, as  
25 you know, allows for input from developers, from solar

1 stakeholders, and that would be the opportunity for the  
2 solar market to provide additional feedback into the  
3 process as we finalize exactly what those final RFP  
4 enhancements look like.

5 Q. Okay. Thank you.

6 And does the current RFP PPA allow changes in  
7 law or tariffs to be taken into account? For instance, if  
8 the legal grounds change underneath the project, does the  
9 company have the ability to renegotiate or amend the PPA  
10 with developers to accommodate changes in law? Like a lot  
11 of contracts have, you know, a changes-in-law provision?

12 A. (Witness Mallard) Yeah. There's not a  
13 specific change in law. There's a regulatory out.  
14 There's also force majeure language that are in our PPAs  
15 at this point. There's not a specific change in law  
16 provision.

17 Q. Okay. And do you know, would the developers  
18 have to pay penalties under the current provisions to exit  
19 as a result of a change in law?

20 A. (Witness Mallard) If there was a -- a  
21 developer certainly has -- there's certainly remedies in  
22 our current purchase power agreements that hold the  
23 developers accountable for the terms and conditions of the  
24 PPAs in which they enter.

25 Q. Okay. And would the company consider



1 including a provision of future PPAs that would allow more  
2 developer flexibility for qualifying changes in law?

3 A. (Witness Mallard) I think the company is  
4 always open to feedback from market participants and to be  
5 informed by the current conditions in the marketplace. So  
6 we're open -- again, we're committed to the success of  
7 these RFPs. I'll mention again the -- it's really a  
8 balance.

9 We want to be as flexible as we can, but the  
10 certainty of the RFP, the process, the timeline, and  
11 bidders knowing exactly the requirements are of the RFP  
12 they're bidding in, that's also important. So we always  
13 want to balance having an RFP that is predictable and  
14 reliable with the ability to be adaptive to changing  
15 market conditions.

16 Q. Okay. Thank you.

17 So just one more question, and I'm not sure  
18 if you can necessarily answer this now, but just in case.  
19 So on page 86 of the main IRP document, it states that  
20 Georgia Power expects to announce the results of the CARES  
21 2023 RFP in Q1 of this year. And was just wondering if  
22 you could provide any clarification on the timing of when  
23 that announcement would be?

24 A. (Witness Mallard) Yeah, I can't. I'm going  
25 to respectfully decline to offer any insight into the

1 ongoing CARES utility-scale RFP.

2 MR. COX: Okay. Thank you. So that's all  
3 the questions we have for this panel, and also SREA  
4 will not have any questions for the next panel, but  
5 thank you for your time.

6 MR. MALLARD: Thank you.

7 CHAIRMAN SHAW: Okay. Thank you.

8 Department of defense.

9 (No response.)

10 CHAIRMAN SHAW: Walmart.

11 CROSS-EXAMINATION

12 BY MS. EATON:

13 Q. Smile, you have reached the end. We  
14 appreciate your time and actually your willingness to hear  
15 feedback from your customers about, you know, these  
16 renewable projects that not just meets sustainability  
17 goals, but are really just good in general practices. So  
18 I'll be brief with just a few follow-ups.

19 In your direct, on page 37, you talk about  
20 the NOI process for the CARES program --

21 A. (Witness Mallard) Yes.

22 Q. And you mention, you know, two pricing  
23 options. There are subscription terms of 10 to 30 years.  
24 Are the subscription terms determined by the customer, the  
25 number of years?

1           A.       (Witness Mallard) Yes. The customer chooses  
2 the subscription terms. Now, the subscription terms are  
3 informed by the purchase power agreement that they're  
4 subscribing to. So we allow up to 30 years and so we  
5 allow the subscription terms to go from 10 to 30 in 5-year  
6 increments and at the customer's discretion.

7           Q.       And what do you mean, "in 5-year increments,"  
8 what does that mean?

9           A.       (Witness Mallard) So it would either be a 10,  
10 a 15, a 20, a 25 or a 30. We do not offer all available  
11 integers in between for subscription terms.

12          Q.       Got it. Got it. Just making sure.

13                   And that 10- to 30-year subscription term  
14 does apply to the two pricing options; correct?

15          A.       (Witness Mallard) Yes. That's correct.

16          Q.       Then in that same section you say, "The  
17 credit will be modified to add reimbursement thresholds."

18                   How is that going to be done?

19          A.       (Witness Mallard) We don't have the details  
20 worked out yet, but the concept of the reimbursement  
21 threshold is to limit the amount of the credit that the  
22 customer could receive, the amount of the energy credit  
23 the customer will receive through the subscription, and  
24 that will be done in a way to minimize the risk of  
25 negative impact on nonparticipating customers. We'll do

1 that in a way that still preserves benefits for the  
2 subscribing customer and strikes a balance between the  
3 allocation of those benefits between subscribers and  
4 nonsubscribers.

5 Q. Okay. And would it be something akin to  
6 capping their bill credit so it doesn't exceed the  
7 subscription paid or something like that?

8 A. (Witness Mallard) It could be something like  
9 that. There could be a cap. There could be a collar.  
10 You could have sort of a dead band where the -- as long as  
11 the credit was close to what the projection was, it could  
12 just operate. If it got outside of that band, it could --  
13 that could create a sharing or a cap situation.

14 We've also thought about just discounting  
15 overall the amount of the credit, and some other options  
16 are on the table. We definitely would work closely with  
17 staff, stakeholders, interested customers, as we develop  
18 that methodology and put that into the CARES filing for  
19 Commission approval.

20 Q. Sure. And I want to make sure I understood  
21 which program you were talking about. Yesterday, one of  
22 you said, "There will be a program-specific docket opened  
23 after utility-scale RFP, and the cluster study process."  
24 Was that for this CARES program that we've just been  
25 speaking of, or is that for the CARES DG subscription

1 program?

2 A. (Witness Mallard) So both of those programs  
3 will need to be approved, whether that's one filing  
4 together, or whether there are two separate filings. It's  
5 still TBD, but all of the subscription program  
6 enhancements will need to be approved by the Commission.  
7 There will be associated tariff and program participation  
8 provisions. I would -- I would guesstimate that it will  
9 be two separate filings, but it could all be done together  
10 in a single filing. More to come at the conclusion of the  
11 IRP.

12 Q. Okay. Do you have any sort ballpark on that  
13 timing, like next year or later than that?

14 A. (Witness Mallard) Yeah. Well, we're going to  
15 hustle as fast as we can. I would hope to get the filings  
16 together in the second half of this year, with approval to  
17 potentially be next year. But all of that is TBD, and  
18 some of it depends on the outcome of the program, how much  
19 the program is maybe modified through this process.

20 And, again, the participation part of the  
21 program is dependent on the RFP that's going to supply it.  
22 And so really it's the RFP timelines that need to get  
23 settled first, and then the participation timelines would  
24 be pursuant to those procurements.

25 Q. And you're talking about the RFP that is to

1 go out in July of this year?

2 A. (Witness Mallard) No. We're really talking  
3 about future RFPs after -- that are approved as part of  
4 the '25 IRP. So that would be the '26 and '27 DG RFPs and  
5 the 2026 utility-scale RFP as proposed.

6 Q. Okay. At this point, based on your work with  
7 your customers, commercial-industrial customers, do you  
8 expect the subscriptions for your CARES DG program to  
9 exceed those megawatts, the 50 megawatts each?

10 A. (Witness Mallard) It's really hard to  
11 predict. A lot of it is going to depend on the price that  
12 the market delivers in the DG RFP. We definitely have  
13 seen customers that are more sensitive, have sort of less  
14 price elasticity than others. There's a point in which  
15 that price is going to be higher than what the projected  
16 credit is going to be, and the customers are not going to  
17 participate.

18 But I do expect there to be some interest,  
19 it's just hard to predict. We've already been told that  
20 there is interest, through part of this feedback process,  
21 through direct feedback from Walmart themselves.

22 So we had a couple of sessions, and some of  
23 the most astute feedback and observation that we get is  
24 from Steve Chriss of Walmart, and so this concept has been  
25 run by a lot of customers.

1                   In concept, customers like it and support it,  
2 but it just depends on what the economic proposition turns  
3 out to be as to how many customers will end up signing up.

4           Q.       Sure. And I'm not really clear on what  
5 happens to customers who have requested subscriptions, but  
6 then the procurement is maxed out, like, is there -- how  
7 would that queue be handled, or, you know, how, would you  
8 notify customers that are in that queue, that sort of  
9 process?

10           A.       (Witness Mallard) Yeah. So a few things.  
11 First of all, we're now introducing the concept where we  
12 can go and procure additional resources beyond the initial  
13 target. And so if there's additional unmet customer need,  
14 then the second -- the buy-down part, the price refresh  
15 part would come into play, and then the extended RFP as  
16 well, that would allow customers to drive the procurement  
17 of additional resources. Again, if that value proposition  
18 is something that they're interested in. If they're  
19 willing and able to fund those resources.

20                   And so the details of how the original NOI  
21 will work, how additional resources are made available,  
22 either through the second part or the second phase, all  
23 that still needs to be determined, but we'll definitely  
24 work closely with all the stakeholders, and especially the  
25 customers who are interested in subscribing, as we work

1 out those details.

2 Q. Sure. And that would be also be part of your  
3 filing, which would be a standalone docket, whether it's  
4 the DG RFP or -- I mean, the CARES DG with the CARES  
5 program, independent dockets or one big docket?

6 A. (Witness Mallard) I'm not allowed to offer a  
7 legal opinion.

8 Q. Okay. One last point is, I believe,  
9 Ms. Goff, you were asked some questions about your direct  
10 testimony on page 13 related to industrials participating  
11 in the DSM. And I believe you said earlier that the  
12 company recognizes there's no need for utility programs to  
13 incent the energy efficiency or DSM for industrials  
14 because they're already doing that sort of thing on their  
15 own.

16 I think the last, one of the last gentlemen  
17 kind of alluded to this a little bit. And he also talked  
18 very favorably about your work with national account  
19 managers. But wouldn't you agree that there are also  
20 sophisticated commercial customers who also have  
21 implemented their own energy efficiency and DSM measures  
22 on their own, at their own costs?

23 A. (Witness Goff) That may be true. The  
24 distinction there, though, is that industrial customers,  
25 we treat as a class. So as a class of customers through



1 many, many IRPs now, the policy of this Commission is that  
2 industrial customers are not included in the DSM programs  
3 supplied by the company to do, kind of, customer-specific  
4 opt-outs within the commercial class. That's really just  
5 not cost effective for us to implement. So it's the  
6 distinction between a class of customers versus trying to  
7 distinguish individual customers within that overall  
8 class. So that's the difference there.

9 Q. Primarily because in Georgia they don't allow  
10 commercial customers to opt out?

11 A. (Witness Goff) That's right. It's just not  
12 an effective way to implement the programs. We offer  
13 programs that all residential and all commercial customers  
14 can participate in, and so those costs go through the DSM  
15 riders for the residential and commercial customers.  
16 Industrial customers as a group have not been included,  
17 based on past precedent.

18 A. (Witness Phillips) And if the customers were  
19 allowed to opt out, what that would do is put even more  
20 upward pressure on rates for nonparticipants.

21 MS. EATON: All right. Thank you. That's  
22 all I have.

23 CHAIRMAN SHAW: Thank you.

24 Redirect.

25 MS. PRYOR: No redirect. Thank you.

1                   CHAIRMAN SHAW: All right. Thank you.

2                   Panel, thanks for your thoroughness and your  
3 time. You can be excused. We'll take a ten-minute  
4 break, and we will begin with the next panel. But  
5 like I said earlier, we'll go until somewhere in  
6 that 5:30, 5:45, 6:00 range, take a break and keep  
7 going. We will come back at 4:40.

8                   (Whereupon a break was taken.)

9                   CHAIRMAN SHAW: Thanks for a little break. I  
10 hope everybody got enough break. It's time to get  
11 back to work. It's time to swear in the next and  
12 final, third panel.

13                  Mr. Marzo, if you want to swear in your  
14 panel.

15                  MR. MARZO: Thank you, Chair Shaw. We'd like  
16 to call the panel of Ms. McNelly and Mr. Mitchell  
17 to the stand. If you both would raise your right  
18 hand.

19                  With your permission, Mr. Chair, I'll swear  
20 them in.

21                  CHAIRMAN SHAW: Yes, sir.

22                  Thereupon,

23                               JENNIFER S. MCNELLY,  
24                               ROBERT W. MITCHELL, III,  
                              having been duly sworn, testified as follows:

25                               DIRECT EXAMINATION

1 BY MR. MARZO:

2 Q. Ms. McNelly, would you please start by  
3 stating your full name, your employer, and your  
4 responsibilities for the record?

5 A. (Witness McNelly) My name is Jennifer Suzanne  
6 McNelly. I'm the vice president of Environmental Affairs  
7 at Georgia Power, and my team is responsible for the  
8 environmental compliance for business operations  
9 throughout the state, as well the development of and the  
10 implementation of the environmental compliance strategy.

11 Q. Thank you.

12 Mr. Mitchell, would you do the same?

13 A. (Witness Mitchell) Yes. My name is Brett  
14 Mitchell. I am the director for Georgia Power's Coal  
15 Combustion Residual Program management office, and my team  
16 is responsible for the management and closure of Georgia  
17 Power's ash ponds and landfills.

18 Q. Thank you.

19 Ms. McNelly, on February 28th of this year,  
20 did you prefile or cause to be prefiled 31 pages of direct  
21 testimony in question-and-answer format in this case?

22 A. (Witness McNelly) Yes.

23 Q. Are there any corrections you need to make to  
24 your prefiled direct testimony?

25 A. (Witness McNelly) Not a correction, but an

1 update. Georgia EPD has issued an additional CCR permit,  
2 making that total 18 permits instead of 17 permits for the  
3 CCR program.

4 Q. Thank you, Ms. McNelly.

5 If I were to ask you the same questions today  
6 under oath, would your answers be the same as set forth in  
7 your prefiled testimony, with that correction?

8 A. (Witness McNelly) Yes.

9 MR. MARZO: Mr. Chair, the court reporter has  
10 been provided a copy of the prefiled direct  
11 testimony. Now, I ask that the direct testimony of  
12 this panel be copied into the record as if given  
13 orally here today.

14 CHAIRMAN SHAW: So marked.

15 (Whereupon, the prefiled direct testimony  
16 of Jennifer S. McNelly and Robert W. Mitchell III  
17 follows:)

**STATE OF GEORGIA**

**BEFORE THE  
GEORGIA PUBLIC SERVICE COMMISSION**

**In Re:**

|                                      |   |                         |
|--------------------------------------|---|-------------------------|
| <b>Georgia Power Company's</b>       | ) | <b>Docket No. 56002</b> |
| <b>2025 Integrated Resource Plan</b> | ) |                         |

|                                                |   |                         |
|------------------------------------------------|---|-------------------------|
| <b>Georgia Power Company's</b>                 | ) | <b>Docket No. 56003</b> |
| <b>2025 Application for the Certification,</b> | ) |                         |
| <b>Decertification, and Amended</b>            | ) |                         |
| <b>Demand-Side Management Plan</b>             | ) |                         |

**DIRECT TESTIMONY OF**

**JENNIFER S. MCNELLY AND ROBERT W. MITCHELL, III**

**FEBRUARY 28, 2025**

**DIRECT TESTIMONY OF  
JENNIFER S. MCNELLY AND ROBERT W. MITCHELL, III**

**IN SUPPORT OF GEORGIA POWER COMPANY'S  
2025 INTEGRATED RESOURCE PLAN  
DOCKET NO. 56002**

**AND**

**APPLICATION FOR THE CERTIFICATION, DECERTIFICATION, AND  
AMENDED DEMAND SIDE MANAGEMENT PLAN  
DOCKET NO. 56003**

1

**I. INTRODUCTION**

2

**Q. PLEASE STATE YOUR NAMES, TITLES, AND BUSINESS ADDRESSES.**

3

A. My name is Jennifer S. McNelly. I am the Vice President of Environmental Affairs for Georgia Power Company ("Georgia Power" or the "Company"). My business address is 241 Ralph McGill Boulevard N.E., Atlanta, Georgia 30308.

4

5

6

A. My name is Robert W. ("Brett") Mitchell, III. I am the Director of the Coal Combustion Residuals ("CCR") Program Management Office for Georgia Power. My business address is 241 Ralph McGill Boulevard N.E., Atlanta, Georgia 30308.

7

8

9

**Q. MS. MCNELLY, PLEASE SUMMARIZE YOUR EDUCATION AND PROFESSIONAL EXPERIENCE.**

10

11

A. I graduated from the University of Alabama with a Bachelor of Science in Chemical Engineering. I also completed a Master of Business Administration degree from the University of Alabama at Birmingham.

12

13

14

I have worked in a variety of roles within the Southern Company footprint since beginning my career in 2001 as a cooperative education student with Southern

15

1 Nuclear Company. In 2005, I began as an engineer at Southern Company Services  
2 (“SCS”) where I was responsible for leading process design for large capital  
3 environmental projects. From 2011 to 2018, I worked in various leadership roles  
4 within Generation for both Alabama Power and Georgia Power, including  
5 maintenance and operations team leader roles at Plant Miller; the Assistant to the  
6 Senior Production Officer and Vice President of Generation; the Operations  
7 Department Assistant Manager at Plant Bowen; the Engineering, Compliance, and  
8 Support Manager at Plant McDonough; and the Maintenance Manager at Plant  
9 Bowen. In 2018, I transitioned to the Environmental Solutions Water Program  
10 Manager role at SCS. As Water Program Manager, I supervised ash process  
11 personnel and activities and participated in environmental strategy budget inputs,  
12 water treatment project processes, fleet-wide ash pond dewatering treatment, and  
13 vendor partnerships. In 2020, I served as the Director of Environmental Solutions  
14 at SCS. In that role, I led the Environmental Solutions Department, comprised of  
15 the Air Program, Water Program, Land Strategy, Earth Sciences & Environmental  
16 Engineering, and Geotechnical/Fossil Dam Safety.

17 I currently serve as the Vice President of Environmental Affairs at Georgia Power  
18 and have been in this role since March 2023. In this role I am responsible for the  
19 overall environmental compliance of business operations at the Company and  
20 regulatory obligations related to compliance with existing and anticipated  
21 environmental laws and regulations. This responsibility includes the creation and  
22 implementation of the Company’s Environmental Compliance Strategy (“ECS”)  
23 and supporting processes.

24 **Q. MS. MCNELLY, HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE**  
25 **GEORGIA PUBLIC SERVICE COMMISSION?**

26 **A. No.**

1 **Q. MR. MITCHELL, PLEASE SUMMARIZE YOUR EDUCATION AND**  
2 **PROFESSIONAL EXPERIENCE.**

3 A. I graduated from the University of Georgia with a degree in Environmental Health  
4 Sciences. I have worked at Southern Company since 1995, when I began my career  
5 at Georgia Power as an environmental specialist responsible for managing  
6 environmental remediation projects across the state. In 2007, I moved to a  
7 supervisory role overseeing all Georgia Power remediation and waste compliance  
8 activities, including assessing, selecting, and implementing site-specific  
9 remediation methods and technologies, overseeing environmental emergency  
10 response activities, permitting landfills to support operations and the installation of  
11 environmental controls, and managing special wastes to ensure proper disposal. I  
12 transitioned to Southern Company from 2014 to 2016 as the Conceptual  
13 Engineering Manager responsible for strategy budget inputs, and developing  
14 strategies to address land and water related environmental requirements for all  
15 operating companies, including for the CCR Rule. In 2016, I returned to Georgia  
16 Power to manage the team leading the company's CCR compliance strategy  
17 development and implementation, including for the federal and newly finalized  
18 state CCR rule and permitting program. During this time, I was also responsible for  
19 managing Georgia Power's ongoing remediation and waste compliance programs.  
20 In 2020, I served as CCR Portfolio General Manager responsible for Georgia  
21 Power's CCR program strategy and execution. During this time, I was also  
22 responsible for standing up a Program Management Office and associated  
23 processes to proactively manage the large-scale and decades-long CCR program.

24 Currently, as the Director of the CCR Program Management Office for Georgia  
25 Power, I am responsible for the successful execution, governance, oversight,  
26 strategy, regulatory processes, and overall management of Georgia Power's CCR  
27 Program for ash pond and landfill closure projects. This includes direct oversight  
28 and management of all aspects of the closure of the Company's ash ponds,



1 construction, operations, and closure of the CCR landfills at 12 current and former  
2 generation plant sites.

3 **Q. MR. MITCHELL, HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE**  
4 **GEORGIA PUBLIC SERVICE COMMISSION?**

5 A. No.

6 **Q. WHAT IS THE PURPOSE OF THE PANEL'S TESTIMONY?**

7 A. The purpose of our testimony is to support the Company's ECS filed as part of  
8 Georgia Power's 2025 Integrated Resource Plan ("IRP"). We address specific  
9 aspects of the ECS, including recent regulatory and strategy updates related to  
10 greenhouse gas ("GHG") emissions limitations on fossil-based generation,  
11 Mercury and Air Toxics Standards ("MATS") revisions, Effluent Limitations  
12 Guidelines ("ELG") rules for scrubber wastewater and combustion residual  
13 leachate ("CRL"), and the state and federal CCR rules. In addition, our testimony  
14 discusses the Company's management of ash pond closure plans approved in the  
15 2019 and 2022 IRPs, beneficial use of CCR, and Georgia Power's approach to  
16 planning for carbon pressures on its generating fleet.

17 **Q. PLEASE SUMMARIZE THE PANEL'S TESTIMONY.**

18 A. Georgia Power's ECS describes the comprehensive strategy to comply with all  
19 applicable state and federal environmental laws and regulations through the  
20 implementation of cost-effective environmental controls and actions. The strategy  
21 enables Georgia Power to develop a flexible and adaptive plan to ensure continued  
22 compliance and resource planning optionality.

23 Georgia Power continues to manage numerous regulatory requirements associated  
24 with its generation plants. Revisions to the Company's 2025 ECS reflect changes  
25 to environmental regulations finalized since the Georgia Public Service  
26 Commission ("Commission") previously approved the Company's ECS in the 2022

1       IRP. As such, the Company is focused on the investment and actions needed to  
2       comply with recent revisions to several key environmental regulations, including  
3       United States Environmental Protection Agency’s (“EPA”) 111 GHG Rules and  
4       the 2024 ELG Rule.

5       Notwithstanding pending legal challenges to each of the main environmental rules  
6       discussed herein, the Company must move forward on compliance actions with  
7       near-term compliance deadlines approaching. Further, since this uncertainty is  
8       likely to continue for the foreseeable future, it is imperative that the Company  
9       continue to take a long-term approach to planning decisions, building in appropriate  
10      flexibility and resource planning optionality, to ensure compliance readiness while  
11      continuing to meet customer needs.

12      For example, the 111 GHG Rule sets forth designated compliance pathways for  
13      existing steam generating units, with options to retire, install and operate carbon  
14      capture and sequestration (“CCS”) technology, or co-fire coal with natural gas. It  
15      sets forth designated compliance pathways for new combustion turbines with  
16      options to install CCS or operate at less than 40% annual capacity factor. As  
17      discussed in the IRP Main Document, the ECS, and the Direct Testimony of  
18      Witnesses Grubb, Hubbert, Looney, Robinson, and Valle, the Company assumes  
19      all new combined cycle units will be limited to no more than a 40% annual capacity  
20      factor and has elected the co-fire compliance pathway for Plants Bowen and  
21      Scherer.

22      Further, EPA’s 2024 ELG Rule requires the installation of additional wastewater  
23      treatment controls at current and former coal-fired power plants even though  
24      implementation of the 2020 ELG Rule is still in progress. The 2024 ELG Rule  
25      requires Zero Liquid Discharge (“ZLD”) by December 31, 2029, for scrubber  
26      wastewater and leachate collected from on-site landfills at operational plants and  
27      additional treatment requirements for leachate and legacy water at retired sites.  
28      While ELG compliance plans at Plant Scherer are less impacted—due to the  
29      selection of the Voluntary Incentives Program (“VIP”) compliance option for

1 scrubber wastewater that remains unchanged from the 2020 ELG Rule—the new  
2 ZLD requirement presents a significant compliance challenge for Plant Bowen,  
3 where additional controls must be designed, engineered, and installed to comply.

4 Finally, the Company continues to make progress on its CCR compliance strategy  
5 to permanently close CCR ash ponds and landfills under the oversight of the  
6 Georgia Environmental Protection Division’s (“EPD”) federally approved CCR  
7 program. The Company continues to evaluate opportunities to refine and optimize  
8 its closure plans and pursue opportunities to create value through beneficial use.

9 The 2025 ECS describes the Company’s plans to comply with environmental laws  
10 and regulations by implementing a strategic and flexible plan that installs cost-  
11 effective and protective controls consistent with the Company’s commitment to  
12 supply clean, safe, reliable, and affordable energy to its customers. The Company  
13 requests Commission approval of the ECS and the related capital, operations and  
14 maintenance (“O&M”), and CCR asset retirement obligation (“ARO”) costs, and  
15 associated measures taken to comply with government-imposed environmental  
16 mandates.

17 **Q. HOW IS THE REST OF YOUR TESTIMONY ORGANIZED?**

18 A. The remainder of our testimony is organized as follows:

- 19 • Section II provides an overview of the Company’s Environmental  
20 Compliance Strategy.
- 21 • Section III discusses recent changes to applicable environmental  
22 compliance regulations.
- 23 • Section IV discusses the Company’s CCR compliance strategy.
- 24 • Section V details Georgia Power’s beneficial use activities.
- 25 • Section VI discusses climate and carbon pressures.

1                                    **II.    ENVIRONMENTAL COMPLIANCE OVERVIEW**

2    **Q.    WHAT IS THE ENVIRONMENTAL COMPLIANCE STRATEGY?**

3    A.    In accordance with Commission Rule 515-3-4-.04(1)(c), Georgia Power's ECS  
4           includes a detailed overview of the applicable current and proposed environmental  
5           laws and regulations for its electric generation plants as well as the Company's  
6           comprehensive strategy for complying with those requirements. The Company's  
7           annual ECS development process considers plant-specific compliance options and  
8           evaluates those options based on technology availability; cost; schedule; and impact  
9           to plant operations, the environment, and surrounding communities. This approach  
10          provides the necessary flexibility to develop and refine Georgia Power's ECS in  
11          today's dynamic regulatory compliance environment, assuring compliance with  
12          robust control plans that are in the best interests of customers.

13   **Q.    PLEASE   DESCRIBE   THE   ENVIRONMENTAL   REGULATORY**  
14   **FRAMEWORK APPLICABLE TO GEORGIA POWER AND HOW THE**  
15   **ECS ENSURES COMPLIANCE WITH THAT FRAMEWORK.**

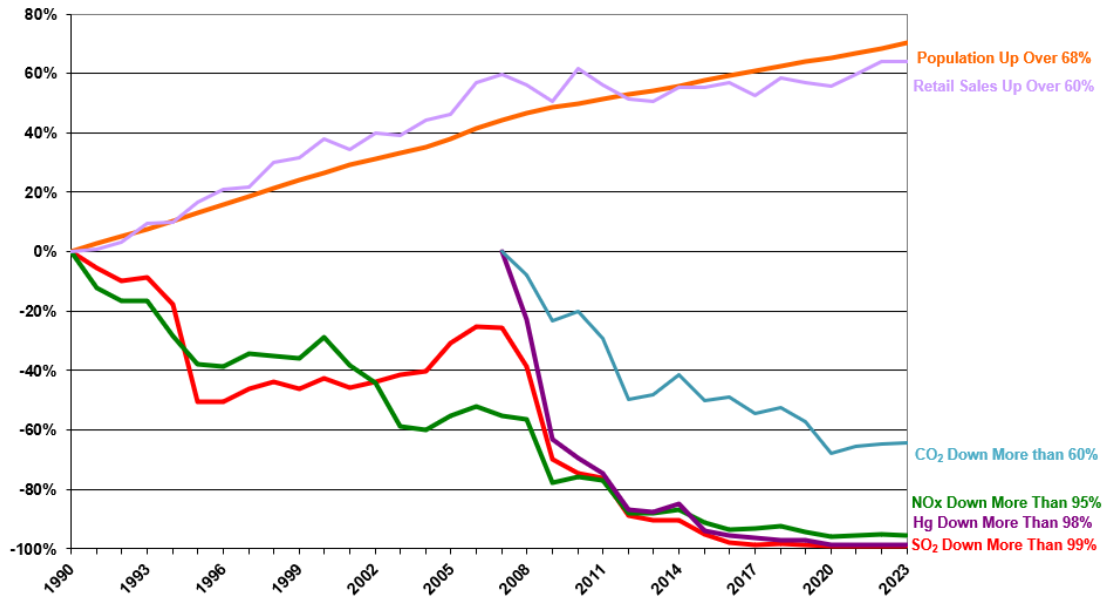
16   A.    Georgia Power's ECS contains actions necessary to comply with federal and state  
17          requirements of multiple regulators, including the EPA, the Georgia EPD, and the  
18          Commission. The EPA creates, maintains, and enforces national standards under a  
19          variety of environmental laws and establishes these standards through the  
20          development of federal regulations. The Georgia EPD is the implementing body for  
21          both federal and state laws through rules, policies, and permits to protect human  
22          health and the environment. Finally, the Commission reviews the Company's ECS,  
23          along with the cost estimates to implement that strategy, and determines if the  
24          strategy and associated costs are reasonable.

25          The annual development of the ECS, in coordination with the triennial IRP process,  
26          provides an opportunity for the Company to respond to changing environmental  
27          regulations and incorporate new information as it becomes available over the course

1 of Georgia Power's long-term planning process. While the strategy itself will  
2 necessarily evolve over time to address changes in applicable state and federal  
3 regulations, the purpose of the ECS process is and has always been to assure  
4 compliance with all environmental requirements, produce cost-effective  
5 compliance solutions that minimize the impact to customers, and to maintain the  
6 necessary flexibility to adjust to the dynamic nature of environmental regulations.

7 **Q. WHAT ARE SOME OF THE COMPANY'S MILESTONE**  
8 **ACHIEVEMENTS WITH REGARD TO ENVIRONMENTAL**  
9 **COMPLIANCE?**

10 A. Georgia Power is committed to meeting its environmental compliance obligations  
11 while also providing customers with clean, safe, reliable, and affordable energy.  
12 For example, since 1990, the Company has reduced nitrogen oxides ("NO<sub>x</sub>") and  
13 sulfur dioxide ("SO<sub>2</sub>") emissions from its generating fleet by more than 95% and  
14 99%, respectively. Additionally, mercury emissions have decreased by more than  
15 98% and carbon dioxide ("CO<sub>2</sub>") emissions by more than 60% since 2007. Further,  
16 water withdrawals have decreased by 90% since 2003 with the transition of the  
17 generation fleet.



**FIGURE 1 – Georgia Power Emission Trends**

Requirements related to wastewater discharge and ash pond closures have resulted in the installation of 16 wastewater treatment systems and dry or zero discharge ash handling equipment for coal facilities. In compliance with the federal and state CCR rules, Georgia Power has advanced closure construction activities in various stages at its 29 ash ponds, which includes conducting preliminary sitework, design, dewatering, and closure construction.

Additionally, the Company continues to recycle, on average, more than 85% of the CCR generated from plant operations for beneficial use, which significantly reduces waste streams for the benefit of customers and the environment. As a part of ash pond closure, up to nineteen million tons of ash are anticipated to be harvested, processed, and removed from sites for beneficial use throughout the multi-year closure timeframe.

1 **Q. PLEASE DESCRIBE GEORGIA POWER’S 2025 ENVIRONMENTAL**  
2 **COMPLIANCE STRATEGY.**

3 A. Georgia Power’s 2025 ECS sets forth a comprehensive strategy outlining the  
4 Company’s cost-effective plans to comply with all applicable environmental  
5 requirements, including the following four rules finalized by EPA in the spring of  
6 2024 that impose new requirements on utilities in the power sector: (a) GHG  
7 emissions limitations pursuant to the Clean Air Act, Section 111 (“111 GHG  
8 Rules”); (b) revised MATS; (c) revised and supplemental ELGs; and (d) CCR rule  
9 amendments through the Legacy CCR Surface Impoundments Rule (“Legacy  
10 Rule”). Each of these four environmental regulations are discussed in more detail  
11 below.

12 **Q. IS THERE REGULATORY UNCERTAINTY THAT COULD AFFECT THE**  
13 **2025 ENVIRONMENTAL COMPLIANCE STRATEGY?**

14 A. Yes. Georgia Power’s 2025 ECS accounts for uncertainty in legal and regulatory  
15 outcomes related to the new rules finalized by EPA in 2024. While all four of the  
16 new rules have been legally challenged, in each case the respective court declined  
17 to put the rule requirements on hold. As such, all the rules remain in effect with  
18 compliance deadlines quickly approaching. The Company’s compliance strategy for  
19 these new rules ensures environmental mandates can be met while remaining ready  
20 to adapt to future litigation or regulatory developments. The final outcomes of  
21 ongoing litigation, potential executive actions, and potential subsequent rulemaking  
22 may take years to resolve, and this uncertainty requires that Georgia Power work  
23 towards compliance with final regulations, as implemented by EPD through its  
24 permits and state plan, while staying flexible for various outcomes, including the  
25 suspension of some or all rule requirements. Therefore, the Company will continue  
26 its current compliance strategy until there is more certainty on the ultimate outcome  
27 for each challenged regulation, at which time the Company will reevaluate and  
28 adapt the ECS as appropriate.

1 The Company’s “all of the above” approach to supply-side, demand-side, and  
2 transmission planning is critical to manage the uncertainty presented by  
3 environmental mandates both now and in the future, especially during a time of  
4 high projected load growth. The goal of the Company’s strategy is to ensure  
5 compliance with all applicable state and federal requirements and provide cost-  
6 effective solutions for the generating fleet that are in the best interests of customers,  
7 while preserving the flexibility of the approaches taken given the dynamic  
8 regulatory environment.

9 **III. CHANGES TO ENVIRONMENTAL COMPLIANCE REGULATIONS**  
10 **SINCE 2022 AFFECTING THE ECS**

11 **A. 111 GHG Rules**

12 **Q. PLEASE DESCRIBE THE 111 GHG RULES AND WHAT THEY**  
13 **REQUIRE.**

14 A. The EPA’s 111 GHG Rules seek to limit GHG emissions from power plants, with  
15 the 2024 rules specifically focused on new gas turbines and existing coal plants. As  
16 a result of the new requirements, by 2032 new combined-cycle units without CCS  
17 must limit their annual capacity factor to 40%. New simple-cycle combustion  
18 turbines (“CTs”) must limit their annual capacity factors to no more than 40% and  
19 potentially as low as 20%. On the other hand, existing coal-fired generation units  
20 would be subject to standards set in a forthcoming state plan. EPA’s Rule outlines  
21 three compliance pathways for existing coal units to states: (1) retirement by  
22 January 1, 2032; (2) add 90% CCS by January 1, 2032; or (3) 40% gas co-firing by  
23 January 1, 2030, with retirement by January 1, 2039. State plans are due May 2026  
24 and are subject to EPA review and approval. The 111 GHG Rules permit states to  
25 deviate from these pathways if justified and needed.



1 **Q. WHAT IS THE COMPANY'S COMPLIANCE STRATEGY FOR THE**  
2 **111 GHG RULES?**

3 A. Notwithstanding pending legal challenges to the 111 GHG Rules, Georgia Power  
4 must evaluate these regulations as currently finalized and develop compliance  
5 strategies. Certain affected generating units, including new CTs (Plant Yates Units  
6 8-10) and existing steam generating units—Plant Yates Units 6-7 and Plant Gaston  
7 Units 1-4—are expected to be able to continue operating as planned and without  
8 significant additional cost or constraint under the new requirements. However,  
9 Plant Bowen Units 1-4 and Plant Scherer Units 1-3, comprising over 4,000  
10 megawatts of capacity, are significantly impacted under the current 111 GHG  
11 Rules.

12 Two of the three pathways for coal units outlined in EPA's 111 GHG Rules, retire  
13 by January 1, 2032, or install and operate CCS, are not only costly but also  
14 impractical. Georgia Power's elected compliance strategy for all seven existing  
15 coal units is to pursue co-firing natural gas beginning January 1, 2030, or as soon  
16 as feasible, with retirement of these units by January 1, 2039. This decision is  
17 supported by the Company's planning tools such as Unit Retirement Studies,  
18 included in Technical Appendix 1, and other scenario analyses, which indicate that  
19 co-firing is more cost effective, poses lower risk, and is more technically feasible  
20 than other pathways, including retirement.

21 **Q. WHAT COMPANY UNITS ARE SUBJECT TO A STATE PLAN AND HOW**  
22 **WILL FINAL STANDARDS BE DEVELOPED?**

23 A. Plant Yates Units 6-7, Plant Bowen Units 1-4, and Plant Scherer Units 1-3 are  
24 subject to the state-specific compliance plan to be prepared by Georgia EPD and  
25 submitted to EPA for approval. In the plan, Georgia EPD will establish  
26 performance standards for each of these generating units based on EPA's  
27 guidelines, which contain "presumptively approvable" standards for subcategories  
28 of existing coal and gas-steam resources. However, EPD will not submit its plan

1       until May 2026, and approval from EPA is not expected to occur until July 2027.  
2       Plant Gaston Units 1-4, which are located in Alabama, will similarly be subject to  
3       a state plan developed by the Alabama Department of Environmental Management.  
4       Because states have not yet developed the plans to establish the standards, and those  
5       plans will be subject to EPA review and approval, significant uncertainty remains  
6       regarding the potential impact of the 111 GHG Rules if they remain in effect.

7       For Plant Bowen and Plant Scherer, the presumptively approvable emissions  
8       standard based on 40% natural gas co-firing and the January 1, 2030, compliance  
9       date requires further analysis, which is ongoing. Both the emissions standard and  
10      compliance date will be finalized through engagement with Georgia EPD during  
11      the state plan process, contingent on approval by EPA. The final emissions  
12      standards and compliance dates may differ from those in EPA's guidelines based  
13      on the consideration of Remaining Useful Life and Other Factors ("RULOF"). In  
14      considering RULOF, the state can establish a standard or compliance date that  
15      differs from EPA guidelines as needed to account for a facility's individual  
16      circumstances. Georgia Power is in the process of conducting engineering studies  
17      to evaluate technical considerations and operational impacts of co-firing natural gas  
18      for the generating units at Plant Bowen and Plant Scherer. These studies will be  
19      critical to inform the state plan development process.

20   **Q.    HAS THE COMPANY PARTICIPATED IN LEGAL CHALLENGES TO**  
21   **THE 111 GHG RULES?**

22   A.    Yes. A multi-state coalition, including Georgia, as well as numerous industry and  
23   interest groups have filed legal challenges to the 111 GHG Rules before the U.S.  
24   Court of Appeals for the D.C. Circuit. Georgia Power's parent company, Southern  
25   Company, is a member of the Electric Generators for a Sensible Transition, one of  
26   the industry groups that filed a legal challenge. In July 2024, the D.C. Circuit  
27   declined to stay the rules, which resulted in emergency stay petitions at the U.S.  
28   Supreme Court. In October, the Supreme Court denied the request for emergency  
29   stay. The D.C. Circuit held oral arguments on the challenge on December 6, 2024.

1 On February 19, 2025, the court granted EPA’s request to pause the litigation for  
2 60 days while the agency reviews the rule. Notwithstanding the ongoing litigation,  
3 the 111 GHG Rules as finalized in 2024 are the current rules in effect and must be  
4 considered by Georgia Power in its planning process.

5 **Q. HOW DOES THE ECS PROCESS ACCOUNT FOR POTENTIAL**  
6 **CHANGES TO THE 111 GHG RULES OR LEGAL UNCERTAINTY?**

7 A. As discussed above, the ECS is an iterative process that is designed to provide the  
8 Company with a flexible and responsive compliance strategy for applicable  
9 environmental rules and regulations. Georgia Power continues to monitor and  
10 evaluate developments in the 111 GHG Rules. As a part of Georgia Power’s ECS,  
11 the 111 GHG Rules strategy for Plant Bowen and Plant Scherer is to pursue the  
12 natural gas co-firing compliance pathway, starting with engaging engineering firms  
13 to perform boiler studies to determine potential designs for adding natural gas co-  
14 firing capability. Georgia Power will also engage with Georgia EPD and other  
15 stakeholders on the feasible compliance timeline and requirements that will  
16 minimize the impacts to reliability and affordability for customers. While these  
17 activities can be paused or slowed down in the event of a future legal decision or  
18 policy change, waiting to start these activities could have profound consequences  
19 for resource planning in the event the rules are upheld.

20 **B. 2024 Mercury and Air Toxics Standards Revisions**

21 **Q. WHAT ARE THE MERCURY AND AIR TOXICS STANDARDS?**

22 A. Finalized in 2012, the EPA’s MATS rule is a technology-based rule that regulates  
23 hazardous air pollutants (“HAP”), including mercury, acid gases, and metallic HAP  
24 (via particulate matter emissions as a surrogate) from coal- and oil-fired electric  
25 generating units. Under the Clean Air Act, EPA is required to review and update  
26 the standards as necessary on a periodic basis.

1     **Q.     PLEASE DESCRIBE THE RECENT MATS REVISIONS.**

2     A.     In 2024, EPA finalized MATS revisions that significantly lowered the particulate  
3           matter limit applicable to coal-fired power plants. The revisions also require  
4           utilities to demonstrate compliance with the revised limit through continuous  
5           emissions monitoring as opposed to stack testing, which was allowed under the  
6           prior standards. The Company must comply with the MATS revisions by July 2027.

7     **Q.     WHAT IS THE COMPANY’S MATS COMPLIANCE STRATEGY?**

8     A.     Georgia Power has complied with MATS for about 10 years. Currently, the  
9           Company utilizes stack testing to confirm its units are compliant with particulate  
10          matter emissions limitations, which consistently shows the Company’s coal-fired  
11          generating units (Plants Bowen and Scherer) are emitting at levels less than the  
12          more stringent limit finalized in the 2024 MATS revision. Thus, the Company does  
13          not anticipate the installation of additional controls to comply with the revised  
14          standards. Compliance will require the addition of new particulate matter  
15          continuous emissions monitoring for each of Plant Bowen Units 1-4 and Plant  
16          Scherer Units 1-3.

17                                                           **C. 2024 ELG Rule**

18    **Q.     PLEASE PROVIDE AN OVERVIEW OF THE PREVIOUSLY**  
19    **APPLICABLE ELG RULES.**

20    A.     In November 2015, EPA updated its steam electric ELGs for the first time since  
21           1982 (the “2015 ELGs”). The 2015 ELGs established technology-based standards  
22           affecting coal ash management and set stringent limits for scrubber wastewater.  
23           The 2015 ELGs established a VIP for scrubber wastewater, which provided a later  
24           compliance deadline for plants able to meet even more stringent scrubber  
25           wastewater limits based on advanced evaporation technology.

1 Since the issuance of the 2015 ELGs, the requirements have changed multiple times  
2 either by court action or EPA rule changes. In October 2020, EPA finalized  
3 revisions to the ELGs (the “2020 ELG Rule”), which had important implications  
4 for the Company’s strategy on scrubber wastewater treatment. For scrubber  
5 wastewater, the 2020 ELG Rule established standards based on wastewater  
6 treatment technology consisting of a combination of chemical precipitation  
7 followed by biological treatment (also referred to as physical-chemical-biological  
8 treatment or “phys-chem-bio”) with a compliance deadline of December 31, 2025.  
9 Compared to the 2015 ELGs, the scrubber wastewater limits were slightly less  
10 stringent for certain constituents and significantly more stringent for others. The  
11 2020 ELG Rule also revised the VIP subcategory for scrubber wastewater to  
12 provide a compliance deadline of December 31, 2028, for plants to achieve more  
13 stringent ELGs based on membrane filtration and established a pathway to opt into  
14 a subcategory that requires permanent cessation of coal combustion by  
15 December 31, 2028. After challenges to the 2020 ELG Rule by environmental  
16 groups, the EPA announced in 2021 that it would initiate a new rulemaking but  
17 stated that permitting authorities should continue implementation of the 2020 ELG  
18 Rule.

19 **Q. PLEASE DESCRIBE THE 2024 ELG RULE.**

20 A. On May 9, 2024, EPA finalized its “Supplemental Steam Electric Effluent  
21 Limitations Guidelines and Standards for the Electric Power Generating Point  
22 Source Category (the “2024 ELG Rule”). The 2024 ELG Rule adds additional  
23 requirements to the ELG rules described above and sets forth more stringent  
24 compliance pathways for the Company’s scrubber wastewater and CRL. Most  
25 significantly, the 2024 ELG Rule established a ZLD requirement for scrubber  
26 wastewater and CRL from the Company’s coal-fired generating units with  
27 compliance required by no later than December 31, 2029. The VIP and cessation  
28 of coal combustion subcategories remain unchanged from the 2020 ELG Rule. In  
29 the 2024 Rule, EPA also maintains the 2020 ELG Rule scrubber wastewater

1 requirements and the December 31, 2025, deadline for phys-chem-bio treatment  
2 until the applicability dates of the new zero-discharge limitations are met.

3 The 2024 ELG Rule also adds a new subcategory option for electric generation  
4 units that are permanently ceasing coal combustion by 2034 and preserves the VIP  
5 compliance option. The 2024 ELG Rule also requires treatment of CRL at facilities  
6 that no longer burn coal.

7 **Q. HAS GEORGIA POWER UPDATED ITS ECS WITH REGARDS TO THE**  
8 **2020 ELG RULE?**

9 A. Yes. Since the initial 2015 ELGs publication in November 2015, the numerous  
10 changes to the rule have made it necessary for the Company to maximize the  
11 flexibility of the environmental compliance strategy process to revise and optimize  
12 plans with each rule iteration and to continue studying evolving technologies, all  
13 while meeting compliance obligations currently in effect.

14 In light of the continuing increase to the Company's projected load forecast and the  
15 magnitude of capacity needs in 2028 and beyond, as discussed in the Direct  
16 Testimony of Witnesses Grubb, Hubbert, Looney, Robinson, and Valle, the  
17 Company is making a formal recommendation in this IRP to continue operations  
18 for Plant Bowen Units 1-2, as well as extending the operation of Plant Scherer  
19 Unit 3 and Plant Gaston Units 1-4 beyond the 2028 retirement dates approved in  
20 the 2022 IRP.

21 With the continued operation of Plant Bowen Units 1-2 beyond 2028, scrubber  
22 wastewater from those units will use the same treatment system currently under  
23 construction for Plant Bowen Units 3-4 to comply with the 2020 ELG Rule. For  
24 Plant Scherer Units 1-2, the Company considered plant-specific equipment and  
25 operational characteristics and selected a membrane-based technology system to  
26 meet the VIP compliance subcategory requirements by December 31, 2028. The  
27 site-specific water quality and quantity characteristics at Plant Scherer are a unique

1 technical fit that allow the VIP pathway and membrane technology to be cost  
2 competitive. If the Commission approves Georgia Power's plan for the continued  
3 operation of Plant Scherer Unit 3 beyond 2028, the scrubber wastewater will be  
4 treated with the other units. In addition, based on current regulations, the  
5 compliance investments required at Plant Gaston Units 1-4 are expected to remain  
6 unchanged to continue operation beyond 2028.

7 **Q. HOW DOES THE 2024 ELG RULE CHANGE THE COMPANY'S**  
8 **COMPLIANCE PLANS AT PLANTS BOWEN AND SCHERER?**

9 A. Since the 2024 ELG Rule retained the VIP compliance option, no major change in  
10 compliance approach is needed for Plant Scherer for scrubber wastewater  
11 treatment. For Plant Bowen, the 2024 ELG Rule creates additional treatment needs.  
12 The Company has identified two potentially feasible alternatives:

13 (1) A membrane-evaporator-crystallizer system was established by EPA in  
14 the 2024 ELG Rule as the technology basis for the ZLD limit. The  
15 Company has included control assumptions and costs related to  
16 installation of a membrane-evaporator-crystallizer treatment system in  
17 the 2025 IRP as Plant Bowen's 2024 ELG Rule compliance option.

18 (2) The Company is also investigating and considering an alternative  
19 system that would exclude the membrane system from the first option.  
20 Should the alternative treatment system show technical viability and  
21 costs comparable to the membrane-evaporator-crystallizer system, the  
22 Company will pursue the alternative system.

23 The benefits of the Company's dual-path evaluation include: (i) the ability to  
24 perform further technical feasibility analysis, (ii) the ability to adjust to future  
25 regulatory changes, and (iii) the flexibility to install the best technology for the  
26 plant-specific scrubber wastewater volumes and characteristics.

1 In addition to scrubber wastewater, the 2024 ELG Rule requires ZLD of CRL at  
2 operational coal-fired facilities. Currently, the Company's plans for CRL treatment  
3 at Plants Bowen and Scherer are based on an evaporative process and estimated  
4 costs are at a prescreening level of certainty. For facilities that have previously  
5 retired coal-fired generation, the 2024 ELG Rule requires EPD to establish site-  
6 specific technology-based limits using best professional judgment. Accordingly,  
7 the 2024 ELG Rule's requirement for case-by-case technology-based effluent  
8 limitations established by the permitting authority will be subject to future  
9 permitting actions. Nevertheless, the Company is able to use current treatment  
10 technology assumptions and associated costs within the ECS for planning purposes.

11 **Q. IS THERE LEGAL UNCERTAINTY SURROUNDING THE 2024 ELG**  
12 **RULE?**

13 A. Yes. Like the 111 GHG Rules, the 2024 ELG Rule is currently in litigation before  
14 the Eighth Circuit Court of Appeals. Southern Company is a member of the Utility  
15 Water Act Group, one of the industry groups that is a petitioner on the challenge.  
16 Opening briefs were filed in November 2024, and on February 19, 2025, EPA  
17 requested that the court pause the litigation proceedings for 60 days. The rule  
18 remains in effect while the final outcome of the case is still pending. This means  
19 that the Company must continue its plan to achieve compliance with the 2024 ELG  
20 Rule and stay on track to complete systems to meet the compliance deadlines in the  
21 2020 ELG Rule, while staying flexible for various legal outcomes.

22 **Q. HOW DOES THE COMPANY'S ELG COMPLIANCE STRATEGY**  
23 **ALLOW FOR FLEXIBILITY TO RESPOND TO FUTURE REGULATORY**  
24 **CHANGES?**

25 A. Georgia Power's ELG strategy benefits customers by providing a balanced plan to  
26 comply with existing requirements while maintaining flexibility to select the most  
27 appropriate unit-specific compliance options at certain sites. This plan best  
28 addresses the continuing uncertainty around the ultimate outcome of the ELG rule



1 by moving forward on implementation of controls to ensure compliance by the  
2 required deadlines, while continuing to study wastewater treatment technology  
3 where there may be promising alternatives. This strategy provides the Company an  
4 ability to adapt to changing regulations while ensuring compliance and reliable  
5 operation moving forward.

6 **D. Legacy Rule**

7 **Q. WHAT IS CCR?**

8 A. Coal Combustion Residuals, or CCR, are the byproducts produced from burning  
9 coal in coal-fired generation plants. As it relates to Georgia Power's operations,  
10 CCR includes fly ash, bottom ash, and gypsum. Fly ash and bottom ash are direct  
11 byproducts of the coal combustion process, whereas gypsum is the byproduct  
12 produced by the flue gas desulfurization process. CCR includes the fly ash, bottom  
13 ash, and gypsum produced from the Company's remaining operational coal units  
14 as well as the byproducts stored at Georgia Power's retired coal plants.

15 **Q. PLEASE DESCRIBE THE FEDERAL AND STATE REQUIREMENTS FOR**  
16 **CLOSURE OF ASH PONDS AND LANDFILLS.**

17 A. Georgia Power must comply with both the federal and state CCR rules at its ash  
18 ponds and CCR landfills. The federal CCR rule was finalized in 2015 (and amended  
19 numerous times thereafter) and established national minimum criteria for certain  
20 CCR landfills and ash ponds, including location restrictions, design and operating  
21 criteria, annual inspections, groundwater monitoring, corrective action, closure  
22 requirements and post-closure care, recordkeeping, notification, and internet  
23 posting requirements. The federal CCR rule mandates strict regulatory deadlines to  
24 complete closure of ash ponds.

25 The Georgia CCR rule finalized in 2016 adopted the federal CCR rule and  
26 additionally requires comprehensive permitting, oversight, and monitoring by EPD  
27 for all ash ponds and CCR landfills in the state. Both rules explicitly authorize

1 closure-in-place and closure-by-removal as options for compliance, with each  
2 option subject to its own set of closure performance criteria. Neither rule dictates  
3 the use of either closure option in a particular instance. In fact, in establishing the  
4 federal CCR rule, EPA confirmed that both methods of closure—closure-in-place  
5 and closure-by-removal—are equally protective when the relevant performance  
6 criteria are properly implemented.

7 The federal and state CCR rules have both been amended numerous times over the  
8 past few years and Georgia Power expects they will continue to be reviewed and  
9 updated in the future.

10 **Q. HAVE NEW CCR RULES OR REGULATIONS BEEN FINALIZED SINCE**  
11 **THE 2022 IRP?**

12 A. Yes. On May 8, 2024, EPA issued the Legacy Rule. The Legacy Rule applies  
13 certain requirements from the existing CCR regulations as well as new compliance  
14 obligations to two categories of newly regulated CCR units: legacy CCR surface  
15 impoundments and CCR management units (“CCRMUs”).

16 The Legacy Rule is expected to have limited impact on Georgia Power CCR units  
17 that meet the legacy CCR surface impoundments definition. Although previously  
18 exempt from federal regulation, Georgia Power’s legacy CCR surface  
19 impoundments have all been regulated under Georgia EPD’s CCR permitting  
20 program, previous state landfill permits, and/or state remediation programs. These  
21 units were or are being closed under the applicable state program. The finalization  
22 of the Legacy Rule, however, subjects these legacy units to duplicative  
23 requirements and oversight by both the state and federal agencies. While Georgia’s  
24 comprehensive CCR, solid waste, and remediation rules have effectively regulated  
25 closure of CCR ash ponds and landfills in the state, the EPA’s CCR Legacy Rule  
26 adds additional requirements.

1 First, the Legacy Rule defines a new type of CCR unit—CCR management units  
2 or CCRMUs. CCRMUs are areas of noncontainerized storage or management of  
3 CCR that are not part of an already-regulated CCR unit. The Legacy Rule requires  
4 facility evaluations at all current and former coal-fired power plant facilities to  
5 identify the potential existence of CCRMUs. This labor-intensive effort is due in  
6 two parts, within 21 months and 33 months of the final rule. Any CCRMUs that are  
7 identified through the facility evaluations are required to close and undertake  
8 groundwater monitoring and corrective action (where required) according to  
9 federal CCR rule requirements.

10 Second, the Legacy Rule definition for legacy CCR surface impoundments includes  
11 certain CCR units in Georgia that have been regulated by Georgia EPD. Although  
12 the applicability of the new Legacy Rule is not expected to significantly affect  
13 Georgia Power's closure plans, the Legacy Rule has the potential to introduce  
14 additional compliance timelines and impose additional monitoring requirements  
15 that may differ from current plans.

16 Third, the Legacy Rule codifies new definitions for key terms related to the  
17 performance standards for ash ponds that are closed in place. These new definitions  
18 for infiltration and liquids largely reflect EPA's new interpretations of these  
19 standards, first announced in January 2022, although uncertainty remains in the  
20 application of EPA's interpretations on a site-specific basis. In addition, the  
21 retroactive applicability of these new definitions has been legally challenged. While  
22 the impact of these definitional changes remains unclear pending legal outcomes,  
23 Georgia Power's closure-in-place units remain under the purview of the EPA-  
24 approved Georgia CCR permit program and include engineering controls designed  
25 to enhance groundwater protection.

1   **Q.     DOES THE CCR LEGACY RULE DIRECT THE COMPANY TO CHANGE**  
2   **ITS CCR ASH POND CLOSURE STRATEGY?**

3   A.    No. Georgia Power's ash pond closure strategy, including for legacy surface  
4        impoundments, is designed to comply with both the federal CCR Rule and the  
5        Georgia CCR Rule. The Company ceased placement of CCR in all ash ponds in  
6        2019, and the CCR units are in various stages of closure under the oversight of  
7        Georgia EPD.

8        The ECS outlines Georgia Power's plans for complying with the Legacy Rule's  
9        administrative reporting requirements, website updates, and facility evaluations  
10       with associated reporting in 2026 and 2027, to identify the presence or absence of  
11       CCRMUs that could be subject to the CCR requirements.

12   **Q.     IS THERE LEGAL UNCERTAINTY AROUND THE LEGACY RULE?**

13   A.    Yes. The Legacy Rule was challenged by various parties and is in litigation before  
14        the U.S. Court of Appeals for the D.C. Circuit. Georgia Power's parent company,  
15        Southern Company, is a member of the Utility Solid Waste Activities Group, one  
16        of the industry groups that is a petitioner on the challenge. On January 31, 2025,  
17        petitioners filed opening briefs with the Court. Then, on February 13, 2025, the  
18        D.C. Circuit granted EPA's motion to hold the Legacy Rule litigation in abeyance  
19        for 120 days. Placing litigation in abeyance puts the litigation on pause, but it does  
20        not automatically stay the rule. Thus, at this time the Legacy Rule and its associated  
21        compliance dates are still in effect. Georgia Power will continue to monitor any  
22        new developments in the litigation and in the Legacy Rule and evaluate  
23        implications to the compliance strategy through the ECS process.

1 **IV. CCR COMPLIANCE STRATEGY**

2 **Q. PLEASE DESCRIBE THE COMPANY'S CCR COMPLIANCE STRATEGY**  
3 **AS APPROVED IN THE 2022 IRP.**

4 A. The Company's CCR strategy was approved in the 2019 IRP and again in the 2022  
5 IRP and remains unchanged since the 2022 IRP. The Company CCR compliance  
6 strategy covers 12 sites that include 29 ash ponds, 12 CCR landfills, and  
7 construction of a new permitted landfill that will support ash pond closures in the  
8 future.

9 **Q. WHAT IS THE COMPANY'S APPROACH TO IMPLEMENTING ITS ASH**  
10 **PONDS AND CCR LANDFILL CLOSURE STRATEGY?**

11 A. Georgia Power engaged third-party solid waste permitting experts to develop robust  
12 site-specific closure plans, including engineering designs and construction  
13 schedules to comply with the CCR rules. These plans comprehensively consider  
14 relevant factors in determining the appropriate closure designs for each unit,  
15 including volume, site complexity, and duration of the required activities, and are  
16 certified by independent, qualified professional engineers. For closure-in-place  
17 units, closure plans are developed following a detailed, site-specific engineering  
18 analysis that incorporates proven engineering methods designed to enhance  
19 groundwater protection, improve closure effectiveness, and minimize future  
20 maintenance. The Company's site-specific ash pond closure designs are included  
21 in the state CCR permits and are evaluated in detail by Georgia EPD. Regardless  
22 of the closure method selected for each CCR Unit, the Company will comply with  
23 applicable federal and state regulations as currently or subsequently enacted.

24 **Q. WHAT PROGRESS HAS THE COMPANY MADE WITH REGARD TO ITS**  
25 **CLOSURE STRATEGY?**

26 A. Georgia Power has made significant progress in implementing its approved closure  
27 strategy. The Company's semi-annual CCR ARO progress reports, filed with the

Commission in Docket No. 43083, provide additional details on the program's implementation status; however, key highlights include:

- As closure construction has advanced, Georgia Power has continued to prioritize safety through comprehensive planning, hazard recognition, engineering controls, training, a behavior-based safety program, and rigorous follow-through with learning events when risks are identified. Site-specific health and safety plans are developed and routinely assessed to minimize risks. Advancement of pre-closure or closure construction activities at 29 ash ponds includes permitting, landfill development, ash beneficiation infrastructure to support closure, dewatering, ash excavation, ash consolidation and placement, installation of closure cover systems, installation of engineering controls, and site restoration.
- In 2024, over 2,000 groundwater samples were collected by independent, third-party groundwater professionals with results included in 62 routine groundwater reports submitted to the Georgia EPD and posted to the Company's public website.
- In 2024, independent wastewater treatment contractors treated approximately 1.7 billion gallons of water and independent sampling contractors conducted 557 sampling events for the effluent and receiving streams. To date, over 6.14 billion gallons of water have been treated and over 3,325 sampling events have been conducted for the effluent and receiving streams. Water quality monitoring data is reported to the Georgia EPD and summarized on the Company's public website monthly.
- Beneficial use operations of harvested ash continued at Plant Mitchell and was initiated at Plant Bowen with over 400,000 tons of ash beneficiated in 2024. Construction of the beneficial use facility at Plant Branch is underway.

1 **Q. WHAT IS THE STATUS OF THE COMPANY’S PERMITTING PROCESS**  
2 **WITH THE GEORGIA EPD?**

3 A. To date, Georgia EPD has issued a total of 17 final permits—two closure-in-place  
4 permits, eight closure-by-removal permits, and seven landfill permits. Review of  
5 the remaining 14 permit applications continues with active engagement between  
6 the Company and the state agency. In addition, Georgia EPD has begun the five-  
7 year permit review process and has issued various minor modifications as projects  
8 have progressed for previously issued permits.

9 While Georgia EPD continues to maintain its EPA-approved state CCR permitting  
10 program, EPA involvement in Georgia CCR permits has increased in the last few  
11 years. In early 2024, EPA sent Georgia EPD a letter questioning the issuance of the  
12 final permit for Hammond AP-3, three months after the permit was finalized and  
13 more than two years after the draft permit was issued, and requested continued  
14 communication on all permit issuances. In April 2024, Georgia EPD responded to  
15 EPA stating that the permit was issued in accordance with the approved Georgia  
16 CCR Rule and meets the closure performance standards. Coordination between  
17 Georgia EPD and EPA on the Georgia CCR program is expected to continue for  
18 subsequent permitting actions.

19 With additional developments expected in 2025 related to Legacy Rule compliance,  
20 ongoing litigation, and other EPA actions, Georgia Power remains committed to  
21 working with Georgia EPD on the issuance of its remaining CCR permits, as  
22 required by the Georgia CCR Rule.

23 **Q. WHERE CAN INTERESTED PARTIES LEARN MORE ABOUT**  
24 **GEORGIA POWER’S CCR PROGRAM?**

25 A. Georgia Power maintains a comprehensive website detailing environmental  
26 compliance and project progress. The website includes details on the CCR permit  
27 application process with the Georgia EPD, providing extensive information on the

1 Company's closure plans and opportunities for engagement from stakeholders. The  
2 Company also publishes the results of water treatment, which are performed by  
3 independent third-party professionals and analyzed by accredited independent  
4 third-party laboratories, and publishes its semi-annual groundwater monitoring  
5 reports as submitted to EPD.

6 Additionally, in accordance with the 2019 IRP Order, Georgia Power continues to  
7 provide semi-annual progress reports to this Commission as well as annual updates  
8 with the annual ECS filing.

9 **Q. HAS GEORGIA POWER REVISED THE COST ESTIMATES FOR ITS**  
10 **CCR COMPLIANCE STRATEGY?**

11 A. Yes. Georgia Power consistently monitors and evaluates project assumptions,  
12 including, but not limited to, timing and schedule assumptions for permits and  
13 construction, project scope, post-closure activities, and estimated future escalation.  
14 The Company provides these updates in its CCR ARO semi-annual progress  
15 reports. As reflected in the CCR ARO tables in the Selected Supporting Information  
16 section of Technical Appendix Volume 2, Georgia Power's current forecast  
17 applicable to retail customers over the next 60 years is approximately \$8.0 billion,  
18 which includes \$1.7 billion in project to date actual costs incurred through  
19 December 31, 2024.

20 **V. BENEFICIAL USE**

21 **Q. WHAT IS BENEFICIAL USE?**

22 A. Beneficial use refers to the recycling or reuse of CCR into a marketable or useful  
23 product. Typically, CCR is reused as a key component in concrete products and  
24 wallboard. Ash adds strength and longevity when included in concrete  
25 specifications, while gypsum can replace mined gypsum for wallboard. Ongoing  
26 research continually seeks new beneficial uses for CCR, such as Georgia Power's



1 involvement in research associated with extracting rare earth elements, which have  
2 applications in electronics manufacturing.

3 **Q. WHAT ARE THE POTENTIAL BENEFITS OF INCORPORATING**  
4 **BENEFICIAL USE INTO CERTAIN ASH POND CLOSURES?**

5 A. Benefits associated with the beneficial use of CCR can include increased ash sales,  
6 reduced closure costs, and reduced long-term liability. Reduced costs could take  
7 the form of reduced ash volumes moved during closure, a reduced closure footprint,  
8 reduced landfill space needed to support closure, and/or reduced post-closure care.

9 **Q. WHAT IS GEORGIA POWER'S APPROACH TO BENEFICIAL USE OF**  
10 **HARVESTED CCR IN ASH POND CLOSURE?**

11 A. Georgia Power uses a market-driven approach to optimize the potential of  
12 beneficial use in ash pond closure for the benefit of customers. This approach  
13 ensures that the benefits of harvested ash reuse is balanced with the infrastructure  
14 investment required and that the ash market remains able to absorb the amount of  
15 harvested ash produced from the Company's sites.

16 **Q. PLEASE DESCRIBE GEORGIA POWER'S EFFORTS TOWARDS THE**  
17 **BENEFICIAL USE OF CCR.**

18 A. The Company's CCR beneficial use efforts, as detailed in the ECS, center around  
19 three primary areas: (1) marketing of CCR from ongoing plant operations;  
20 (2) continued development of new research and technology for beneficial use of  
21 CCR; and (3) implementation of market-driven beneficial use projects at the  
22 Company's ash ponds and landfills.

23 **CCR Marketing:** Georgia Power has marketed, over a five-year average, over 85%  
24 of its CCR generated from plant operations for beneficial use. This results in a  
25 reduction in CCR, which helps minimize or offset costs related to CCR storage,  
26 landfill construction, and associated O&M.

1        **Research & Technology:** Georgia Power, in partnership with the Electric Power  
2        Research Institute (“EPRI”) and other utilities, continues its efforts at the Ash  
3        Beneficial Use Center (“ABUC”) located at Plant Bowen. The ABUC strives to  
4        develop additional beneficial uses and better technologies to process harvested ash  
5        for beneficial use. The Company continues to develop and explore research and  
6        beneficial use development opportunities as approved and further detailed in the  
7        2019 and 2022 IRPs. Southern Company is also collaborating with Winner Water  
8        Services and Eco Material Technologies on a DOE-funded project to conduct a  
9        Front-End Engineering Design (“FEED”) study for a commercial-scale rare earth  
10       elements extraction plant using coal ash as feedstock. The paper study will be based  
11       on Georgia Power’s Plant Branch in Milledgeville, Georgia, as host site.

12       **Implementation of Beneficial Use Projects:** As part of site-specific ash pond  
13       closures, the Company currently has several beneficial use projects underway. At  
14       Plant Mitchell, Georgia Power anticipates that up to approximately two million tons  
15       of coal ash will be removed from Plant Mitchell’s ash ponds to help create Portland  
16       cement. By the end of 2024, nearly half of this material has been removed and  
17       shipped off-site for beneficial use. This will further reduce the amount of ash  
18       required to be removed and relocated to an off-site landfill and ultimately result in  
19       the production of a valuable product.

20       At Plant Bowen, infrastructure construction for the new beneficial use facility is  
21       complete and commercial operations began in first quarter of 2024. Transportation  
22       of harvested ash from Plant Bowen’s beneficial use facility for use in the ready-mix  
23       concrete market began in the first quarter 2024, with approximately nine million  
24       tons of ash anticipated to be harvested, processed, and removed from the site over  
25       the duration of the contract period.

26       Georgia Power also finalized an agreement for the beneficial use project at Plant  
27       Branch in May 2023, and investments are currently underway to build a processing  
28       facility with plans to excavate up to eight million tons of coal ash from on-site ash

1 ponds for use in concrete. This will reduce the volume of ash to be landfilled on  
2 site.

3 **VI. CLIMATE & CARBON PRESSURES**

4 **Q. WHAT ARE THE CARBON PRESSURES ON GEORGIA POWER'S**  
5 **GENERATING FLEET FROM CLIMATE AND ENVIRONMENTAL**  
6 **POLICY?**

7 A. In addition to the constraints imposed by new regulatory requirements such as the  
8 111 GHG Rules, potential future climate regulation or legislation and evolving  
9 customer needs also present potential challenges and opportunities that are  
10 important to consider in the Company's overall planning process. In general,  
11 potential carbon cost or other climate-related pressures on generating units are  
12 highest for coal-fired generating units but also affect other fossil fuel-fired power  
13 plants.

14 **Q. HOW IS THE COMPANY INCORPORATING THIS INCREASED**  
15 **CARBON PRESSURE INTO ITS PLANNING PROCESSES?**

16 A. As described in the Direct Testimony of Witnesses Grubb, Hubbert, Looney,  
17 Robinson, and Valle, the Company's robust scenario planning process provides the  
18 best way to capture potential financial impacts and allow for long-term planning to  
19 mitigate risks to customers. Georgia Power included six scenarios in the IRP to  
20 reflect and evaluate carbon pressure: two scenarios are based on the 111 GHG  
21 Rules, three scenarios reflect varying levels of future carbon regulation and price  
22 pressure, and one scenario reflects the future adoption of an overall carbon  
23 emissions limit for the generating fleet. Considering the level of uncertainty in  
24 future climate policy, continued use of a range of carbon scenarios and costs in  
25 long-term planning best positions the Company to monitor and evaluate the  
26 outcome of executive, legislative, and regulatory actions and incorporate any new  
27 information into the planning processes as appropriate.

1 The Company continues to focus on the importance of planning strategically within  
2 the state regulatory framework to address the risks presented by carbon policy by  
3 ensuring a flexible generation fleet. Georgia Power recognizes that the feasibility  
4 of continued progress toward a low-carbon future is highly dependent on the  
5 continued use of natural gas and continued technology advancements. The  
6 Company's long-term planning approach considers these factors through a diverse  
7 resource portfolio leveraging low- and zero-carbon technologies, continued  
8 technological advancements, and constructive engagement with stakeholders to  
9 address the evolving energy needs and preferences of customers.

10 **VII. CONCLUSION**

11 **Q. WHAT IS GEORGIA POWER REQUESTING OF THE COMMISSION IN**  
12 **THE 2025 IRP AS IT RELATES TO THE ECS AND ENVIRONMENTAL**  
13 **COMPLIANCE?**

14 A. The Company seeks approval of the 2025 ECS. This includes the capital, O&M,  
15 and CCR ARO costs and associated measures taken to comply with federal and  
16 state environmental mandates, as set out in the ECS in Technical Appendix  
17 Volume 1 and the ECCR and CCR ARO tables in the Selected Supporting  
18 Information section of Technical Appendix Volume 2, as well as the authority to  
19 pursue the natural gas co-firing compliance pathway as the 111 GHG Rule strategy  
20 for Plant Bowen and Plant Scherer.

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

22 A. Yes.

1  
2 MR. MARZO: And with your permission, I'd ask  
3 Ms. McNelly to also be allowed to summarize the  
4 panel's testimony.

5 CHAIRMAN SHAW: Yes, sir. Go ahead.

6 MS. MCNELLY: Good afternoon, Commissioners.  
7 We appreciate the opportunity to appear  
8 before you today. The purpose of our testimony is  
9 to support Georgia Power's Environmental Compliance  
10 Strategy, or "ECS," which is a comprehensive  
11 strategy designed to provide cost-effective plans  
12 for the Company to meet its environmental  
13 compliance obligations while providing customers  
14 with clean, safe, reliable, and affordable energy.

15 Building on the success of the company's  
16 previous ECS filings, the 2025 ECS seeks to provide  
17 flexibility and optimize compliance in an  
18 increasingly dynamic and uncertain regulatory  
19 environment. The ECS considers existing and  
20 potential legislative and regulatory requirements  
21 and identifies plant-specific compliance options.  
22 Georgia Power evaluates these options considering  
23 the available technology, cost, schedule, plant  
24 operations, and the environment. This iterative  
25 approach is designed to provide Georgia Power with

1 the necessary flexibility to develop and refine its  
2 compliance plans in the best interests of customers  
3 as additional information becomes available.

4 Georgia Power's ECS provides an update on key  
5 regulatory and strategy changes since the 2022 IRP,  
6 including the company's compliance strategy related  
7 to the four rules finalized by EPA in 2024 that  
8 impose new requirements on utilities. These rules  
9 include: Greenhouse Gas emissions limitations  
10 pursuant to the Clean Air Act, Section 111; revised  
11 mercury and air toxics standards; revised and  
12 supplemental Effluent Limitations Guidelines, or  
13 "ELG"; and coal combustion residuals, or "CCR,"  
14 rule amendments through the legacy CCR Surface  
15 Impoundments rule.

16 As discussed in the ECS, the company is  
17 pursuing the natural gas co-firing compliance  
18 pathway as the 111 Greenhouse Gas Rule strategy for  
19 Plant Bowen and Plant Scherer. The ECS also  
20 details the ELG compliance options the company has  
21 selected under the 2020 and 2024 ELG rules. For  
22 Plant Scherer, the company is continuing its  
23 efforts under the voluntary incentives program  
24 compliance option; and for Plant Bowen, the company  
25 is evaluating feasible options for additional

1 controls. The 111 greenhouse gas and ELG compliance  
2 strategy benefits customers by providing a balanced  
3 plan to comply with existing requirements while  
4 maintaining flexibility to select the most  
5 appropriate unit-specific compliance options. This  
6 is the best plan to address the continuing  
7 uncertainty around the ultimate outcome of these  
8 rules.

9 The company's CCR compliance strategy,  
10 approved in the 2022 IRP, including management and  
11 closure of 29 ash ponds and 13 landfills, continues  
12 to be effectively implemented under the oversight  
13 of the Georgia Environmental Protection Division.  
14 The company has made significant progress in  
15 implementing its approved closure strategy,  
16 including opportunities to maximize the beneficial  
17 use of stored coal ash at its active and retired  
18 plants across the state.

19 With the Commission's oversight, the company  
20 is well positioned to continue to build on  
21 successes for the benefit of customers with its  
22 2025 ECS through cost-effective strategy  
23 optimization, reliable operations, and  
24 environmental compliance.

25 Thank you, Commissioners.

1 MR. MARZO: Thank you, Panel.

2 Mr. Chair, the witnesses are available for  
3 questions from the Commissioners as well as  
4 cross-examination.

5 CHAIRMAN SHAW: Commissioners, any questions  
6 for this panel?

7 (No response.)

8 CHAIRMAN SHAW: All right. We will begin  
9 with cross, starting with Georgia Public Service  
10 Commission.

11 MR. PAWLUK: Thank you, Mr. Chairman.

12 CROSS-EXAMINATION

13 BY MR. PAWLUK:

14 Q. Good morning, Ms. McNelly, Mr. Mitchell. My  
15 name is Justin Pawluk, and I'm a lawyer here at the Public  
16 Service Commission representing the Public Interest  
17 Advocacy staff for this IRP hearing.

18 MR. PAWLUK: Before we get started,  
19 Mr. Chairman, may I have permission to distribute  
20 exhibits to the panel and the bench?

21 CHAIRMAN SHAW: Sure, go ahead.

22 MR. PAWLUK: We are going to be marking this  
23 as STF-PIA-7.

24 (The documents referred to were marked for  
25 identification as GPSC Exhibit 7.)



1 BY MR. PAWLUK:

2 Q. Before I start asking some questions about  
3 the ECS, I just have a couple questions about costs and  
4 how they're going to be recovered by the company for some  
5 of these environmental compliance measures. In general,  
6 environmental compliance costs are paid for by the  
7 company's customers as part of their electric bills; isn't  
8 that correct?

9 A. (Witness McNelly) That's correct.

10 Q. And that's sometimes referred to as the  
11 Environmental Compliance Cost Recovery, or ECCR; is that  
12 right?

13 A. (Witness McNelly) Yes.

14 Q. Now, I'd like to ask you a couple of  
15 questions about that exhibit that we just passed out,  
16 which is staff's data requests STF-LA-19 (sic). The  
17 response to STF-LA-1-19 indicates that the ECCR revenue  
18 requirement is not subject to true-up or reconciliation of  
19 actual costs; is that correct?

20 A. (Witness McNelly) That's correct.

21 Q. Does the company maintain tracking of whether  
22 it is over-recovering its ECCR costs?

23 A. (Witness McNelly) Not to my knowledge, no.

24 Q. In 2023 or 2024, did the company over-recover  
25 its CCR costs, do you know?

1           A.       (Witness McNelly) As a normal -- you know,  
2 the company doesn't maintain a balance on the over- or  
3 under-recovery of the ECCR costs.

4           Q.       Thank you.

5                   And I think we -- it's fair to say that  
6 there's quite a bit of uncertainty about environmental  
7 costs affecting the company going forward, and all these  
8 rule uncertainties that you've discussed; is that correct?

9           A.       (Witness McNelly) Yes, there is uncertainty.

10          Q.       Do you think it would make sense, given all  
11 those uncertainties, that there would be a true-up  
12 procedure at some point so that the actual costs of  
13 compliance match up with what's being recovered from the  
14 rates?

15                  MR. MARZO: Mr. Chairman, I'm trying not to  
16 object, but I think we're getting into rate case  
17 issues in terms of how an ECCR is collected,  
18 whether there's a true-up or not a true-up. It's a  
19 rate case issue. That mechanism is recovered  
20 through rate cases.

21                  CHAIRMAN SHAW: So are you also saying that  
22 your panels in the rate case would be more prepared  
23 to answer this question than this panel?

24                  MR. MARZO: This panel can talk about the  
25 costs that are in the tables that support the ECCR

1           that would be asked to be covered in the rate case.  
2           But in terms of the mechanisms that would be  
3           utilized for that recovery, whether or not there's  
4           a true-up, that's a rate case issue.

5           So if there's questions about the cost, they  
6           can answer those.

7           CHAIRMAN SHAW: Yes, let's try to stick to  
8           the resource planning document before us.

9           MR. PAWLUK: That's fine, Mr. Chairman. I  
10          appreciate it. Thank you.

11          COMMISSIONER PRIDEMORE: Can I ask a question  
12          about costs though? So the company doesn't track  
13          costs related to -- I assume they track costs  
14          related to the expenditure of the coal ash  
15          clean-up; right?

16          MS. MCNELLY: That's right.

17          COMMISSIONER PRIDEMORE: Yeah. And is it  
18          treated the same or differently than other  
19          environmental regulatory costs?

20          MS. MCNELLY: I'm going to let Mr. --

21          COMMISSIONER PRIDEMORE: Are they tracked  
22          individually, I guess?

23          MS. MCNELLY: I'm going to let my colleague,  
24          Mr. Mitchell, answer for coal combustion residuals,  
25          or CCR tracking.

1           MR. MITCHELL: Yes, the coal combustion  
2 residual costs are tracked, and we update those in  
3 our annual compliance filing. We also update those  
4 costs on a semiannual basis with our semiannual CCR  
5 reports. So those are routinely updated to this  
6 Commission.

7           MS. MCNELLY: And the ECCR are separate from  
8 that coal ash closure.

9           COMMISSIONER PRIDEMORE: So CCR costs -- so  
10 CCR Arrow is handled separately from the ECCR  
11 tariff?

12          MR. MITCHELL: It's part of the ECCR tariff,  
13 but it is -- I don't know about the accounting --  
14 proper accounting language, but it is counted  
15 separately.

16          COMMISSIONER PRIDEMORE: That's okay.  
17 Neither one of us are accountants. It's all right.

18          MR. MITCHELL: It's treated separately, in  
19 simple terms.

20          COMMISSIONER PRIDEMORE: Okay. Okay. Are  
21 other environmental-related costs captured  
22 uniquely, like clean-up at a hydroplant?

23          MS. MCNELLY: All the normal environmental  
24 compliance costs are captured in the ECCR tables,  
25 excluding what Mr. Mitchell mentioned for the CCR

1 Arrow. So they're all tracked and part of the  
2 normal cost of doing business for environmental  
3 compliance.

4 COMMISSIONER PRIDEMORE: Okay.

5 MS. MCNELLY: In both capital and O&M.

6 COMMISSIONER PRIDEMORE: Okay. Thank you.

7 BY MR. PAWLUK:

8 Q. Looking at the panel's testimony, beginning  
9 on page 10, line 20, the company testified -- or I guess  
10 the panel testified, "The final outcomes of ongoing  
11 litigation, potential executive actions, and potential  
12 subsequent rulemaking may take years to resolve, and this  
13 uncertainty requires Georgia Power to work towards  
14 compliance with final regulations as implemented by EPD  
15 through its permits and state plan, while staying flexible  
16 for various outcomes, including the suspension of some or  
17 all rule requirements."

18 Do you see that?

19 A. (Witness McNelly) Yes.

20 Q. So in the company's recommended 111-MG0  
21 planning scenario, the company is planning based on the  
22 assumption that the 2024 111 GHG rules will remain in  
23 effect as they stand now; is that correct?

24 A. (Witness McNelly) That's correct.

25 Q. Just generally, how would the company's

1 compliance plans change if those rules were to be  
2 suspended or repealed?

3 A. (Witness McNelly) Well, as I believe you  
4 heard in panel one, Commissioners, there's a lot of  
5 scenarios that are run as part of the modeling that panel  
6 one is responsible for. But in general, the expectation  
7 is, if 111 stays around, for lack of a better way to say  
8 it, then that's the base case of how that's modeled.

9 And then there are other modeling scenarios  
10 that were performed by panel one's experts to include  
11 other versions of carbon pressure that are not exactly the  
12 same as 111. So there are compliance considerations for  
13 that rule, and the expectation is we will be compliant  
14 with the rule because it is currently on the books.

15 Q. Okay. But in terms of engineering changes or  
16 resource acquisition or retirement, just sort of  
17 generally, what would those changes be?

18 A. (Witness McNelly) I can't speculate because I  
19 don't know how the changes of the rule -- what effects the  
20 changes of the rule will impart, but this regulatory  
21 process and the filing of the environmental compliance  
22 strategy allows us to be flexible and adaptable to change  
23 to the changing circumstances, or adapt to the changing  
24 circumstances.

25 And so as we have done previously, we will

1 continue to adjust our planning based on what's -- the  
2 circumstances change and remain in compliance, while  
3 keeping customers at the center of that calculus.

4 A. (Witness Mitchell) And I might add, just as a  
5 reminder, the environmental compliance strategy that  
6 Ms. McNelly spoke of, it is filed annually with this  
7 Commission.

8 Q. Now, looking at the testimony on page 12,  
9 line 12, the panel testified, "Two of the three pathways  
10 for coal units outlined in EPAs 111 GHG rules: Retire by  
11 January 1, 2032, or install and operate CCS, are not only  
12 costly but also impractical."

13 Do you see that?

14 A. (Witness McNelly) Yes.

15 Q. Why would it be impractical, in your opinion,  
16 to retire the coal units or install and operate CCS?

17 A. (Witness McNelly) Well, let me start with the  
18 CCS. The CCS current technology is not technically ready  
19 or deployable at this scale for these units, and is not  
20 cost effective for customers at this point.

21 Not only is the technology for CCS still  
22 under development and -- we'll just say development, but  
23 also the infrastructure needed for CCS is pretty intense.  
24 It includes not only pipeline, infrastructure but also  
25 potentially geologic storage. And so the CCS choice, at

1       this time, is not the right choice for customers.

2               As I believe you also heard from panel one,  
3       the large-load growth in the state means that we need  
4       capacity, and retiring the good resources that we have in  
5       these units is not the right choice for customers at this  
6       time. It's not the most cost-effective choice for  
7       customers at this time. So we made those decisions and  
8       that compliance pathway recommendation based on those  
9       limitations.

10            Q.       And so by "impractical," you really mean "not  
11       cost-effective"; is that correct?

12            A.       (Witness McNelly) That's -- no, I don't agree  
13       with that because it's not technically feasible or  
14       deployable at this point for CCS. There is almost an  
15       economic and cost effective -- or cost consideration as  
16       part of that balance as well.

17            Q.       So the company's recommended strategy, then,  
18       I gather, is to proceed with modifying the Bowen and  
19       Scherer coal units by the January 1, 2030, date to operate  
20       with 40 percent natural gas co-firing; is that correct?

21            A.       (Witness McNelly) Yes. That's the  
22       recommended pathway.

23            Q.       Now, what does "40 percent co-firing natural  
24       gas" mean? Does that mean that -- does the 40 percent  
25       refer to the mass of the fuel that's being expended to



1 heat the boilers, or is that the amount of heat being  
2 generated from burning each type of fuel, or the energy  
3 that's being generated? Help me out here.

4 A. (Witness McNelly) I think the simple way to  
5 understand or explain that is to talk about -- the total  
6 production of that unit is 40 percent of that production  
7 is fueled by natural gas.

8 Q. And that's in terms of megawatts hours?

9 A. (Witness McNelly) I think you can think about  
10 it that way, yes.

11 Q. Looking at page 14 of the testimony, starting  
12 at line 10, you testified, "As part of Georgia Power's  
13 ECS, the 111 GHG rules strategy for Plant Bowen and Plant  
14 Scherer is to pursue the natural gas co-firing compliance  
15 pathway, starting with engaging engineering firms to  
16 perform boiler studies to determine potential designs for  
17 adding natural gas co-firing capability."

18 Do you see that?

19 A. (Witness McNelly) Yes.

20 Q. Now, what engineering firms do you anticipate  
21 engaging with to perform those boiler studies?

22 A. (Witness McNelly) The actual contractual part  
23 of that is trade secret, and it is, Commissioners, like  
24 traditional preconceptual -- or conceptual engineering  
25 work, to do studies to understand the scope of what that

1 modification might look like, and it is a typical  
2 engineering study with an engineering firm.

3 Q. Are there more than one engineering firms out  
4 there who have experience doing this type of work?

5 A. (Witness McNelly) Yes.

6 Q. And how many coal plants in the United States  
7 are you aware of that have been successfully retrofitted  
8 with natural gas burners for co-firing?

9 A. (Witness McNelly) I don't know the number for  
10 the U.S. I do know that we have success within our fleet,  
11 Commissioners, of that modification.

12 Q. Which units are those?

13 A. (Witness McNelly) There are a couple in our  
14 fleet, including the units at Plant Yates 6 and 7, as well  
15 as some others across the fleet.

16 Q. And has the company been successful with  
17 that?

18 A. (Witness McNelly) Yes.

19 Q. When was that done, do you know?

20 A. (Witness McNelly) I don't have those dates,  
21 but I could probably look it up for you, but in the teens.

22 Q. Is there a ballpark? Years?

23 A. (Witness McNelly) In the teens.

24 Q. Teens. Thank you.

25 Looking at page 15 of your testimony, having

1 to do with the company's MATS compliance strategy,  
2 beginning environmental beginning on line 14. You  
3 testified, "Compliance will require the addition of new  
4 particulate matter continuous emission monitoring for each  
5 of the Plant Bowen units 1 through 4 and Plant Scherer  
6 units 1 through 3."

7 Could you elaborate a little bit more on what  
8 you mean by "continuous emissions monitoring"?

9 A. (Witness McNelly) Yes. So, Commissioners,  
10 MATS rule is not new. We've been complying with the MATS  
11 rules for several years now. And MATS rules currently,  
12 there is a provision where you can test your emissions on  
13 a periodic basis.

14 The MATS current -- new MATS rule that was  
15 issued in 2024 requires continuous emissions monitoring,  
16 and that -- you can think about that as analyzers that are  
17 continually running, to monitor continuously. And so the  
18 addition of those analyzers or monitors is what the  
19 requirement of that rule requires, and that's part of our  
20 plan moving forward, to comply with the 2024 MATS rule.

21 Q. But those monitors haven't been installed  
22 yet; right?

23 A. (Witness McNelly) That's right.

24 Q. Okay. And, I mean, is that a new technology  
25 or is it --

1           A.       (Witness McNelly) No, it's not a new  
2       technology. The technology is advancing, so it's one of  
3       those things that has gotten better over time. And we're  
4       still in the process of evaluating which monitors will be  
5       needed for our units. Those are required in 2027.

6           Q.       And, you know, I'm not asking about the cost  
7       to ratepayers, but what would be the cost to the company  
8       of installing that technology?

9           A.       (Witness McNelly) The details of those  
10      analyzer additions are trade secret, but they're minimal.  
11      They are monitoring costs similar to traditional O&M or  
12      small capital.

13          Q.       Are there any other engineering challenges  
14      involved with installing that monitoring system?

15          A.       (Witness McNelly) Not really.

16                 And, Commissioners, I'd like to take this  
17      opportunity to talk about the fact that we have been in  
18      compliance with MATS for a long time. And so this new  
19      MAT's rule actually doesn't require us to add any  
20      engineering work to change how we operate our units. It  
21      is more of a monitoring change and how we monitor.

22          Q.       Looking on page 16 of the testimony,  
23      beginning on line 22, you testified, "The 2024 ELG rule  
24      adds additional requirements to the ELG rules described  
25      above and sets forth more stringent compliance pathways

1 for the company's scrubber wastewater and CRL."

2 What is "scrubber wastewater"?

3 A. (Witness McNelly) Can I ask you again that  
4 reference? I didn't find it fast enough.

5 Q. Oh, I'm sorry. I'm looking at page 16,  
6 line 22.

7 A. (Witness McNelly) Okay.

8 Q. So what is "scrubber wastewater"?

9 A. (Witness McNelly) So, Commissioners,  
10 scrubbers are pollution control devices that were  
11 installed in the last 20 years or so, that reduce SO2 and  
12 other air constituents. And so scrubbers are wet systems  
13 on our fleet, and those systems include treatment that  
14 treats for SO2 by using limestone. And the byproduct of  
15 that scrubbing is gypsum, which is sold into the market  
16 for wallboard and wastewater. So that wastewater is  
17 treated, and that scrubber wastewater is one of the  
18 byproducts or the discharges from that scrubber SO2  
19 treatment device.

20 Q. Okay. What is CRL? I appreciate the  
21 explanation.

22 A. (Witness McNelly) Sure. CRL is combustion  
23 residual leachate, and I'll let my colleague Mr. Mitchell  
24 talk more about that.

25 A. (Witness Mitchell) So, yes, combustion

1 residual leachate is collected in -- landfills are  
2 designed to collect leachate, and so that is the leachate  
3 from landfills. And so our plants have landfills for  
4 which -- whatever ash is not sold into the market goes  
5 into the landfills, and then the leachate from those  
6 landfills is the CRL portion of this ELG.

7 Q. Okay. Thank you. I appreciate that as well.

8 Continuing with that quote that I started on  
9 page 16, it goes on to say, "Most significantly, the 2024  
10 ELG rule established a ZLD requirement for scrubber  
11 wastewater and CRL from the company's coal-fired  
12 generating units."

13 What is "ZLD"? Does that refer to zero  
14 liquid discharge?

15 A. (Witness McNelly) Yes, that's right.

16 Q. So how does the company plan to achieve zero  
17 liquid discharge for its coal plants' scrubber wastewater  
18 and CRL by the end of 2029?

19 A. (Witness McNelly) The ELG rule bases its  
20 limit on a suite of technologies that can be used to  
21 reduce the discharge from scrubber wastewater treatment to  
22 zero. And that includes a combination of membrane  
23 treatment, so like a reverse osmosis -- it's kind of like  
24 a contact lens, that kind of treatment -- combined with  
25 evaporation and crystallization. And so that is the

1 company's current plan, is a configuration of those  
2 options to treat for -- to make it ZLD of that scrubber  
3 wastewater stream.

4 Q. Okay. And, again, I mean, how much do you  
5 think that will cost for Bowen and Scherer?

6 A. (Witness McNelly) While the specifics are  
7 trade secret, the cost for that ELG treatment is  
8 significant, on the order of hundreds of millions of  
9 dollars.

10 Q. I'm sorry. Did you say hundreds of millions  
11 of dollars?

12 A. (Witness McNelly) That's right.

13 Q. Now, looking ahead to page 17 of your  
14 testimony, line 14, the panel testified, "In light of the  
15 continuing" -- I'll let you get to it. So that was  
16 page 17, line 14.

17 A. (Witness McNelly) Got it.

18 Q. You testified, "In light of the continuing  
19 increase to the company's projected load forecast, and the  
20 magnitude of the capacity needs in 2020 and beyond, as  
21 discussed in the direct testimony of Witnesses Grubb,  
22 Hubbert, Looney, Robinson, and Valle, the company is  
23 making a formal recommendation in this IRP to continue  
24 operations for Plant Bowen units 1 through 2, as well as  
25 extending the operation of Plant Scherer unit 3 and Plant

1 Gaston units 1 through 4 beyond the 2028 retirement dates  
2 approved in the 2022 IRP."

3 Do y'all see that?

4 A. (Witness McNelly) Yes.

5 Q. Isn't it true that the only reason for  
6 keeping these coal units going, in spite of the costs and  
7 some of the engineering challenges that you've described,  
8 is because of the projected load increases from the  
9 large-load customers, including the data centers?

10 A. (Witness McNelly) Yes. Commissioners, as I  
11 believe you heard from Panel 1, and we've talked about is  
12 the fact that this extraordinary load growth in the state  
13 means that out -- we need capacity, and we need to do that  
14 in the most cost-effective way for our customers.

15 And so my understanding of the reason for the  
16 extenuation of those units -- or the extension of those  
17 operations of those units is to meet that capacity load  
18 for all the large-load, as well as the needs of our  
19 customers.

20 Q. I mean, it doesn't make your job any easier  
21 from an environmental compliance standpoint, does it?

22 A. (Witness McNelly) Well, not necessarily, but  
23 that is the job. The job is to ensure that our  
24 environmental compliance technology is adequate and that  
25 it's doing its job, and it's run well, and it's run



1 efficiently, so that those units can continue to produce  
2 our product for the best interests of our customers.

3 Q. Moving on to parts four and five of your  
4 testimony related to coal combustion residuals or CCR,  
5 what does CCR include, just generally?

6 A. (Witness Mitchell) Coal combustion residuals  
7 include ash, flash, bottom ash, and gypsum, and  
8 Ms. McNelly described gypsum a while ago and how it's  
9 collected.

10 Q. And you talked a little bit earlier in your  
11 summary about beneficial use. Are there beneficial uses  
12 for coal combustion residuals?

13 A. (Witness Mitchell) Yes, there are. So flash  
14 is a heavily sought-out commodity that typically goes to  
15 the concrete industry, and so flash is used into ready-mix  
16 concrete. And then gypsum is, as Ms. McNelly spoke to, is  
17 heavily used in the wallboard industry.

18 Georgia Power has a long history of recycling  
19 our operational ash. Over 85 percent of our production  
20 ash from our active facilities has gone to the market for  
21 years, and then we are also including -- we're the market  
22 conveyer, so it's based on a market-driven approach,  
23 beneficiating ash from our ash pond closures and trying to  
24 move that material to the market, and those benefits  
25 offset costs to our ash pond closures.

1 Q. Now, looking at page 25, lines 24 to 27.

2 A. (Witness Mitchell) I'm sorry. Page 25?

3 Q. Yes. I believe you indicated in 2024, the  
4 company harvested ash at Plant Mitchell and initiated  
5 harvesting at Plant Bowen, with over 400,000 tons for  
6 beneficial use; is that correct?

7 A. (Witness Mitchell) That is correct.

8 Q. Approximately, how much revenue did the  
9 company receive from the 400,000 tons of ash resulting  
10 from that beneficial use?

11 A. (Witness Mitchell) So the exact numbers are  
12 trade secret, but those benefits do go back and they do  
13 offset the ash pond closure costs. At Plant Mitchell,  
14 that ash there is going to Portland cement manufacturers.  
15 And then the ash from Plant Bowen is primarily going to  
16 the ready-mixed concrete industry.

17 Q. To avail itself of the beneficial uses of  
18 CCR, the company must first incur some upfront costs; is  
19 that right?

20 A. (Witness Mitchell) That's correct.

21 Q. Through December 31 of 2024, approximately  
22 how much has the company incurred for upfront spending for  
23 ash processing infrastructure that could enable the  
24 beneficial use of CCR at each plant?

25 A. (Witness Mitchell) So at Mitchell, that we

1 just talked about, there is none. The plan there is,  
2 material is dried, and it goes to the Portland cement  
3 manufacturers. So no processing infrastructure, you might  
4 say, other than normal management at a site.

5 And at Plant Bowen, there's a processing  
6 facility that dries the ash prior to it going to the  
7 market. And so that was a result -- the Bowen contract  
8 was a result of an RFP that we had completed in, I think,  
9 in 2023. And we provided a summary of that document to  
10 this Commission regarding the Bowen and the Branch  
11 projects that were awarded at that time.

12 Q. Now, looking at page 28 of your testimony,  
13 the panel testified that, "Georgia Power has marketed,  
14 over a five-year average, over 85 percent of its CCR  
15 generated from plant operations for beneficial use."

16 Do y'all see that?

17 A. (Witness Mitchell) Can you point to the line  
18 item again?

19 Q. I'm sorry. Page 28. I'm not sure what the  
20 line item is.

21 A. (Witness Mitchell) I got it. Yes, sir.

22 Q. It says, "Georgia Power has marketed, over a  
23 five-year average" -- and what do y'all mean here by  
24 "marketed"? Does that mean sold, disposed of, put up for  
25 sale? What --

1           A.       (Witness Mitchell) That means it's sold to  
2 users of the ash.

3           Q.       All right. Just means sold then?

4           A.       (Witness Mitchell) That's right. And that is  
5 referring to the production ash, on that 85 percent that I  
6 spoke of a while ago, from the operational facilities.

7           Q.       Thank you.

8                   And I just have one more question. I do feel  
9 compelled, since Rule 515-3-4-.041(c) of the Commission's  
10 rules for IRPs does require that the ECS address low-level  
11 nuclear waste and high-level nuclear waste, and I didn't  
12 see too much in the ECS. I think it was the very last  
13 page of the plan. There was maybe one page about nuclear  
14 waste.

15                   Have there been any changes or new  
16 developments, regulations, as to the disposal or storage  
17 of low- or high-level nuclear waste?

18           A.       (Witness McNelly) No, sir.

19           Q.       What are we doing with it? Are we just  
20 putting it on site at Hatch and Vogtle?

21           A.       (Witness McNelly) We're complying with all  
22 the rules and regulations, and there are many in the  
23 nuclear space. And that's handled by our Southern Nuclear  
24 Company. And we're just continuing to do the same process  
25 as we have with that waste, for both of those sites.

1 MR. PAWLUK: All right. Thank you.  
2 Appreciate your time, Panel.  
3 Mr. Chairman, I would like to move to enter  
4 Staff Exhibit STF-PIA-7 into the record.  
5 CHAIRMAN SHAW: So marked.  
6 MR. PAWLUK: Thank you.  
7 (GPSC Exhibit 7 was admitted into evidence.)  
8 All right. We'll keep going, starting with  
9 cross on the intervenors. We'll start with  
10 Advanced Power Alliance.  
11 MR. CARVER: No questions, Mr. Chairman.  
12 CHAIRMAN SHAW: Americans for Affordable  
13 Clean Energy.  
14 MR. GALLOWAY: No questions, Mr. Chairman.  
15 CHAIRMAN SHAW: Clean Energy Buyers  
16 Association.  
17 MS. KVIEN: No questions.  
18 CHAIRMAN SHAW: Capital Good Fund.  
19 (No response.)  
20 COMMISSIONER PRIDEMORE: I think she's gone.  
21 CHAIRMAN SHAW: Fermata Energy.  
22 (No response.)  
23 CHAIRMAN SHAW: Georgia Association of  
24 Manufacturers.  
25 MR. CHARLES JONES: No questions.

1                   CHAIRMAN SHAW: Georgia Center for Energy  
2                   Solutions.

3                   (No response.)

4                   CHAIRMAN SHAW: Georgia Coalition of Local  
5                   Governments.

6                   MR. SMART: No questions.

7                   CHAIRMAN SHAW: Georgia Conservation Voters  
8                   Education Fund.

9                   MR. ESTRADA: No questions.

10                  CHAIRMAN SHAW: Georgia Interfaith Power &  
11                  Light and Southface.

12                  COMMISSIONER PRIDEMORE: They were looking  
13                  down, they were not looking up. They were staring  
14                  at the carpet because they knew it.

15                  All right, Jennifer. You're always welcome.

16                  MS. WHITFIELD: Three questions, I promise.  
17                  And may Vanna White approach?

18                  (The documents referred to were marked for  
19                  identification as GIPL/Southface Exhibit 9.)

20                  CROSS-EXAMINATION

21                  BY MS. WHITFIELD:

22                  Q. If you may, Mr. Sherrier is handing out  
23                  what's been marked as GIPL/Southface Exhibit 9. And on  
24                  this exhibit, I have questions about Figure 5, which is on  
25                  page 4. And the page numbers were added by us, just for

1 ease of reference, but this document was otherwise printed  
2 from the Southern Company website, and it's titled: The  
3 Southern Company Net Zero Q & A Supplement. And it's  
4 dated December 2023.

5 Figure 5 reflects EPRI's analysis, presented  
6 by Southern Company in this document, of potential  
7 cost-effective pathways by region to achieve net-zero  
8 greenhouse gas emissions. And my question is, if you  
9 agree with that summary -- if these reflect potential  
10 pathways that Southern Company believes would be  
11 appropriate for Southern Company to achieve net-zero  
12 greenhouse gas emissions in accordance with its goals?

13 A. (Witness McNelly) While I can't comment on  
14 the values of the pie charts for each of those, I believe  
15 that those are the general pathways that we expect to be  
16 available options for a path to net-zero.

17 Q. Thank you.

18 (The documents referred to were marked for  
19 identification as GIPL/Southface Exhibit 8.)

20 BY MS. WHITFIELD:

21 Q. And if Mr. Sherrier could approach with what  
22 has been marked as GIPL/Southface Exhibit 8. This  
23 document was printed yesterday from the Southern Company  
24 website. It is a Georgia Power economic development  
25 webpage on data centers entitled: Georgia, a Competitive

1 Advantage for Data Centers. And I'd like to direct your  
2 attention to the second page, where we were delighted to  
3 see that on the second page, in two different locations,  
4 Georgia Power is touting its commitment to net-zero carbon  
5 emissions by 2050.

6 Am I correct that Georgia Power has now  
7 adopted the Southern Company commitment to net-zero  
8 emissions by 2050 aspirate-specific commitment as well?

9 A. (Witness McNelly) Georgia Power continues to  
10 be in line with Southern Company's net-zero by 2050 plan,  
11 and nothing has changed in that commitment at the Southern  
12 Company level.

13 Q. So Georgia Power now has a commitment to  
14 net-zero emissions by 2050?

15 A. (Witness McNelly) As part of Southern  
16 Company, Georgia Power is aligned with the Southern  
17 Company net-zero by 2050 commitment.

18 Q. So no?

19 A. (Witness McNelly) There's been no change in  
20 the commitment to the overarching strategy for net-zero at  
21 the Southern Company level. We're, of course, part of  
22 that Southern Company, and so our -- nothing in this IRP  
23 deviates from that pathway.

24 MS. WHITFIELD: Thank you. No further  
25 questions.



1                   CHAIRMAN SHAW: Georgia Solar Industries  
2                   Association.  
3                   MR. COX: No questions.  
4                   CHAIRMAN SHAW: Georgia Solar?  
5                   He said he didn't have any.  
6                   Georgia Watch?  
7                   (No response.)  
8                   CHAIRMAN SHAW: Georgia WAND and Vote Solar.  
9                   MS. KVIEN: Good evening, Panel. Allison  
10                  Kvien on behalf of Georgia WAND and Vote Solar.

11                                   CROSS-EXAMINATION

12                  BY MS. KVIEN:

13                   Q.       In your written testimony and in the unit  
14                   retirement study provided in Technical Appendix 1, you  
15                   write that you found that co-firing is the most  
16                   cost-effective option and that it poses lower risk than  
17                   other options, including retirement, for compliance with  
18                   GHG Rule 111; is that correct?

19                   A.       (Witness McNelly) Can you point me to where  
20                   you're looking to make sure I'm looking at the right  
21                   sentence, please?

22                   Q.       I left my page reference back there.  
23                               It is in your direct testimony. I can grab  
24                   my page reference, if you need it.

25                   A.       (Witness Mitchell) I think we may have found

1 it. Will you repeat the question?

2 Q. Sure.

3 In your written testimony and in -- also in  
4 the Technical Appendix 1 in the unit retirement study, you  
5 write that you found that co-firing is the most  
6 cost-effective option in that it poses lower risk than  
7 other options, including retirement.

8 A. (Witness Mitchell) If you could point us to  
9 the line. I don't know --

10 Q. I didn't write down my page number for it  
11 like I thought I did, but I think it's probably around  
12 page 12, if I had to guess.

13 A. (Witness McNelly) Okay. I'm not seeing that  
14 exact sentence, but I see some language that's similar.

15 Q. Do you remember that you wrote that it was --  
16 that co-firing was the most cost-effective option of the  
17 three options and that it poses lower risk?

18 A. (Witness McNelly) Yes.

19 Q. Okay. That's all I need.

20 In asserting that co-firing is lower risk,  
21 did the company evaluate the potential for these  
22 investments to become stranded assets if legal,  
23 regulatory, or market pressures required an earlier exit  
24 from fossil fuels than 2039, when the company is currently  
25 proposing retirement?

1           A.       (Witness McNelly) Commission, as we typically  
2 do, we evaluate these rules and changes in the  
3 circumstances on an annual or ongoing basis. And so while  
4 there is uncertainty around these rules, there are rules  
5 that are currently on the books that we're required and  
6 will comply with. And so developing the plan to comply  
7 with the 111 rule, despite the uncertainty in that space,  
8 is the appropriate thing for us to do.

9           Q.       So you did not consider stranded asset risk,  
10 then, in making that assertion?

11          A.       (Witness McNelly) The way that our plan  
12 works, the flexibility of our plan, and the ability for us  
13 to adapt that plan, reduces any risk of that. Makes sure  
14 it is -- as always, any investment could change, but the  
15 fact that we can be flexible and adaptable and do that  
16 every year allows us to minimize that risk to customers  
17 while still adhering to our commitment to be in compliance  
18 with the rules that are on the books.

19          Q.       And in asserting that co-firing is lower  
20 risk, the lower risk option of the three, did the company  
21 consider fuel-volatility risk from further investment in  
22 natural gas?

23          A.       (Witness McNelly) Again, I think as Panel 1  
24 stated, that is a part of the evaluation that Panel 1 does  
25 when they run these evaluations. We supply the inputs to

1 those discussions and those models on the constraints  
2 around the environmental rules that are changing, and my  
3 understanding is those analyses take that into account.

4 Q. And finally, did you consider -- in asserting  
5 that co-firing is the lower risk option of the three, did  
6 the company consider health and environmental  
7 noncompliance risks to communities surrounding those  
8 fossil fuel plant facilities?

9 A. (Witness McNelly) Commissioners, as you know,  
10 we work and play and live in these communities. We live  
11 in the state, and our employees. It's important to us  
12 that we maintain, not only compliance, but also that we're  
13 good stewards of the environment, and we maintain that  
14 commitment.

15 Q. Right. I'm just trying to understand the  
16 factors that you considered when you write that this --  
17 that the co-firing option was the lower risk option of the  
18 three.

19 A. (Witness McNelly) The factors that are  
20 considered are economic, as we do -- benefiting our  
21 customers, we balance quite a few constraints and  
22 benefits. That includes providing our product to our  
23 customers to provide clean, safe, reliable, and  
24 affordable, and we balance those risks and those benefits  
25 of producing that product for our customers.

1           Q.     Given that the company's proposed co-firing  
2 retrofit would only operate for nine years between 2030 to  
3 2039, has the company calculated the break-even point for  
4 recovering the upfront capital costs for that investment?

5           A.     (Witness McNelly) I'm not sure of the details  
6 of that. I think that was -- our Panel 1 experts do that  
7 as part of their analysis, but I'm not privy to the -- I  
8 don't have those details in front of me.

9           Q.     Did you conduct a full life-cycle-emission  
10 analysis, including potential upstream methane leakage for  
11 the natural gas that would be used in the co-firing  
12 scenario?

13          A.     (Witness McNelly) I'm not sure if that  
14 analysis is run on a case by -- or a unit-by-unit basis  
15 for considering this, but we are, and have been, very  
16 transparent with our emissions information, both on our  
17 website and with this Commission, and will continue that  
18 commitment to transparency to make sure that everyone  
19 knows the choices are in the best interest of our  
20 customers.

21               MS. KVIEN: All right. Thank you. No  
22 further questions.

23               CHAIRMAN SHAW: Thank you.

24               All right. Next is MARTA.

25               MS. EATON: No questions.

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CHAIRMAN SHAW: Micro- -- yes?

MS. WHITFIELD: If I may, I forgot to move in  
my exhibits GIPL and Southface Exhibits 8 and 9.

CHAIRMAN SHAW: That's the last two, 8 and 9?

MS. WHITFIELD: Yes.

CHAIRMAN SHAW: So marked.

(GIPL Exhibits 8 and 9 were admitted into  
evidence.)

mr. hewitson: GIPL, weren't you 9 and 10?

MS. WHITFIELD: 8 and 9.

CHAIRMAN SHAW: 8 and 9.

MS. WHITFIELD: Thank you.

CHAIRMAN SHAW: Microsoft?

MR. DOWDY: No questions, Mr. Chairman.

CHAIRMAN SHAW: Resource Supply Management.

(No response.)

CHAIRMAN SHAW: Resource Supply Management.

(No response.)

CHAIRMAN SHAW: Sierra Club. Southern  
Alliance for Clean Energy and the Natural Resource  
Defense Counsel.

MS. ARIZA: Thank you.

CHAIRMAN SHAW: Just for planning purposes  
only, do you have an idea of time?

MS. ARIZA: Not much at all.

1 CHAIRMAN SHAW: Well, let's go then.

2 MS. ARIZA: Less than three pages, I think.

3 CROSS-EXAMINATION

4 BY MS. ARIZA:

5 Q. Good evening, Panel. My name is Isabella  
6 Ariza and I represent NRDC, SACE, and Sierra Club in these  
7 proceedings.

8 Staff asked you a bunch of my questions, so  
9 I'll be brief. Would you agree --

10 A. (Witness McNelly) Sorry. Ma'am, we can  
11 barely hear you. This air conditioner is super loud.

12 Q. I'll try to speak closer.

13 You've talked about modeling 111 rules, would  
14 you agree that you model them because it's prudent to  
15 model existing on-the-books, applicable laws?

16 A. (Witness McNelly) Yes.

17 Q. Isn't it true that it would be imprudent to  
18 fail to assess environmental compliance obligations  
19 currently on the books?

20 A. (Witness McNelly) Yes.

21 Q. Would you also agree that modeling that 111  
22 rule can serve as a proxy for other future environmental  
23 regulations that are likely to occur over the next 30  
24 years? Over the plan --

25 A. (Witness McNelly) Did you say the next 30

1 years?

2 Q. Yeah. Over the next -- yeah, or over the  
3 planning period. Is modeling 111 a good proxy?

4 A. (Witness McNelly) Yeah. I think modeling any  
5 rules that are on the books is appropriate for our  
6 customers for the future.

7 Q. But, in particular, modeling 111 could be a  
8 good guide to what is going to happen in the carbon  
9 regulation over the next 30 years, for example?

10 A. (Witness McNelly) It's certainly one of the  
11 ways that it could be regulated in the future. I think  
12 Panel 1 mentioned, also, that there are other scenarios  
13 that were modeled to take into account other possible  
14 carbon pressures, and so while 111 is a good model, there  
15 are others that were modeled as well to have a robust  
16 planning picture.

17 Q. Thank you.

18 On page 8 of your testimony, lines 12 through  
19 17, you say that since 1990, Georgia Power has reduced NOx  
20 and SO2 by more than 95 and 99 percent, respectfully; is  
21 that correct?

22 A. (Witness McNelly) That's correct.

23 Q. Do you agree that those reductions have been  
24 beneficial to ratepayers?

25 A. (Witness McNelly) Yes.



1           Q.       Wouldn't you agree that further reductions in  
2 NOx and SO2 would also be beneficial?

3           A.       (Witness McNelly) Yes, but marginally so  
4 because they're so close to 100 at this point, you know.  
5 Those are very large reductions. And those environmental  
6 controls that were put on to make those reductions, in the  
7 best interest of customers, are doing a great job, they're  
8 well-maintained and they're continuing to serve their  
9 purpose.

10          Q.       But since you're asking to keep your coal  
11 fleet online for longer, your emissions -- your NOx and  
12 SO2 emissions will no longer decrease, they will increase;  
13 correct?

14          A.       (Witness McNelly) No. They will continue to  
15 maintain that level of performance because those  
16 technologies, that environmental equipment, will continue  
17 to perform at that removal rate. And it continues to  
18 serve our customers well; correct?

19          Q.       Well, at least compared to retiring those  
20 units, the emissions will increase because you're keeping  
21 them online for longer now?

22          A.       (Witness McNelly) Can you restate that, just  
23 to make sure I understand what you're asking?

24          Q.       The SO2 and NOx emissions will no longer  
25 continue decreasing because you're no longer retiring coal

1 units; correct?

2 A. (Witness McNelly) Not necessarily. So it  
3 depends on how long -- you know, they're continuing to  
4 remove at that level, and so depending on how long they  
5 run, they will continue to remove at that level. And so  
6 there will be incremental changes, but it generally will  
7 be removing those levels for those units at that rate.

8 Q. But emissions won't decrease; correct?

9 A. (Witness McNelly) I think you're saying they  
10 won't decrease anymore.

11 Q. Exactly.

12 A. (Witness McNelly) And I'm saying that they're  
13 going to continue that level of performance because  
14 they're well-operated and well-maintained and they're  
15 going to continue to reach almost 100 percent removal of  
16 those constituents from those units.

17 Q. Okay. Did you create a -- so please turn to  
18 Figure 1 of your environmental compliance strategy. It's  
19 on page 8. Did you create a figure similar to this one  
20 which shows NOx and SO2 and CO2 emission trends but for  
21 future years?

22 A. (Witness McNelly) No.

23 Q. You don't know -- so you don't know how much  
24 your emissions will fluctuate in the future?

25 A. (Witness McNelly) Not precisely, but through

1 the decisions and the approvals of this Commission, we've  
2 removed our -- you know, more than 60 percent of CO2 since  
3 2007 levels, and we are committed to continuing a  
4 responsible fleet transition, and now expansion, as we go  
5 forward. So we don't have that out forward -- we didn't  
6 extrapolate that forward for this diagram, but we are  
7 continuing to provide a balanced portfolio, and that  
8 includes balancing the constraints, all the constraints,  
9 to meet the need of the customer.

10 Q. And what do you mean by "fleet transition"?

11 A. (Witness McNelly) So back to your figure,  
12 over time, the fleet has changed in transitioned, based on  
13 environmental rules, based on the needs of the customer,  
14 the demands of the market, and the technology that's  
15 available to do the thing to produce the energy that we're  
16 producing.

17 And so that fleet transition includes some  
18 retirements. It also includes adding new resources to  
19 maintain that diverse portfolio of all different kinds of  
20 resources: Fossil, hydro, nuclear, renewable, storage.  
21 And that balance is what we really believe is important to  
22 serve our customers best.

23 Q. Under fleet transition, you include coal  
24 retirements. Would you agree that that aspect of the  
25 transition has stopped with this IRP?

1           A.       (Witness McNelly) We're on a continuum, so,  
2 no, I wouldn't agree with because over time things  
3 continue to change. The circumstances change, the needs  
4 of the customer changes, and the way that we continue to  
5 balance that portfolio -- we will continue to balance it  
6 in the best interest of customers. So I can't say that it  
7 has or hasn't stopped because it's always in flux. And  
8 that's why this process, being flexible and adaptable, has  
9 worked well in the past. We believe it will work well in  
10 the future.

11           Q.       The panel yesterday said that maybe that  
12 transition -- I'm paraphrasing -- but that transition  
13 might have been put on pause. Would you agree with that?

14           A.       (Witness McNelly) I think for this period,  
15 yes.

16           Q.       And if it's a pause, do you know when it will  
17 resume?

18           A.       (Witness McNelly) I don't. And, again, I'd  
19 remind Commissioners that the balanced portfolio, and all  
20 the things that we're also adding, make that balanced  
21 portfolio still the right choice. All those different  
22 resources allow for flexibility and affordability, which  
23 is important.

24           Q.       Have you evaluated how continued reliance on  
25 coal, combined with data centers diesel generators that

1 are showing up around the Atlanta area, could impact  
2 Atlanta's air quality?

3 A. (Witness McNelly) I can't speak to the diesel  
4 generators, but we are -- we remain committed to being in  
5 compliance with all rules and regulations at the federal  
6 and state level, and that includes all constituents. And  
7 so any of these choices or approvals that the Commission  
8 makes, take that as a presupposition that we will remain  
9 in compliance with all those regulations.

10 Q. So you haven't necessarily conducted that  
11 analysis of impacts to air quality; correct?

12 A. (Witness McNelly) Maybe could you restate the  
13 broader picture and not just the end part of that  
14 question?

15 Q. I think you said, "no," but I'll ask again:  
16 Have you conducted a study that analyzes the impacts to  
17 air quality due to keeping coal online for longer?

18 A. (Witness McNelly) We continue to maintain and  
19 be in compliance with all of our permits. Georgia EPD  
20 maintains that, as the protector of human health and the  
21 environment, and we will continue to maintain and comply  
22 with our permits to ensure that we are in -- in the right  
23 spot there.

24 Q. Thank you.

25 Have you had asked EPD to conduct an analysis

1 of that kind?

2 A. (Witness McNelly) No.

3 Q. Turning to CCR, on page 22, lines 16 through  
4 20.

5 A. (Witness Mitchell) You're referencing  
6 testimony?

7 Q. Of your testimony, yes. Page 22, lines 16  
8 through 20.

9 Here you reference the 2022 letter from EPA  
10 to EPD regarding your ash pond closures; correct?

11 A. (Witness Mitchell) Yes.

12 Q. In that communication, EPA indicated that its  
13 interpretation of the CCR rule is that CCRs cannot be left  
14 submerged in groundwater; correct?

15 A. (Witness Mitchell) Yes.

16 Q. Did that letter change any of your ash pond  
17 closure plans?

18 A. (Witness Mitchell) As we have spoken to this  
19 Commission before, all of our ash pond closure plans were  
20 site-specific plans designed by third parties with  
21 expertise in this area, and they were designed to comply  
22 with the rules. All of our closure plans include  
23 engineering measures. And EPA, on multiple occasions,  
24 themselves have said the engineering measures are  
25 appropriate to install, to comply with the performance

1 standards.

2 In Georgia, Georgia EPD has been approved by  
3 EPA to delegate -- they've been delegated by EPA to run  
4 the CCR program in Georgia. And so we have continued to  
5 provide EPD information that they request and to ensure we  
6 comply with EPD's request. And as -- again, our plans are  
7 designed to comply, and those engineering measures are  
8 what we reference to EPA and to EPD, that -- if up you  
9 take EPA's interpretations that we talk about here, we  
10 provided documentation to EPD showing how we comply.

11 Q. So you haven't changed any of your ash pond  
12 closure plans since EPD received that letter from EPA?

13 A. (Witness Mitchell) No, we have not, because  
14 we have continued to demonstrate how our plans were  
15 designed to comply.

16 Q. But you've known of EPA's interpretation for  
17 three years now and haven't changed a single plan. Isn't  
18 that too much -- too big of a risk?

19 A. (Witness Mitchell) Again, EPD is the  
20 regulatory authority in the State of Georgia in this  
21 space. EPD has consulted with EPA. EPD issued a  
22 closure-in-place permit for Plant Hammond in 2023, after  
23 consultation with EPA for over two years. And EPD has  
24 continued those discussions with EPA.

25 If EPD asked us to -- or requires us to add

1 additional controls or measures, then we will do what we  
2 need to to comply. And we've provided thousands and  
3 thousands of pages of information to EPD -- permit  
4 information, including those performance standard  
5 documents that I mentioned, that demonstrate how we  
6 comply.

7 Q. Have you quantified how much it would cost to  
8 change your plans if -- should EPD or EPA require you to  
9 change them?

10 A. (Witness Mitchell) No, we have not.

11 Q. Let me turn to page 13 -- or, actually, you  
12 might remember this because you just answered some  
13 questions. You reference, technical considerations and  
14 operational impacts on co-firing gas at Bowen and Scherer;  
15 correct? You mentioned you're conducting engineering  
16 studies on those?

17 A. (Witness Mitchell) Can you go back to --

18 Q. Page 13.

19 A. (Witness McNelly) Of testimony?

20 A. (Witness Mitchell) On 111?

21 Q. Yes.

22 A. (Witness McNelly) Okay. I'm there.

23 Q. You say you're conducting engineering studies  
24 to evaluate technical considerations and operational  
25 impacts of co-firing; correct?



1           A.       (Witness McNelly) That's correct.

2           Q.       Are you saying here that it's possible that  
3 you won't be able to co-fire gas at these units?

4           A.       (Witness McNelly) We're not saying that.

5 And, Commissioners, remember that the 111 rule for  
6 existing steam generators requires a state plan by the  
7 Georgia EPD. And so our considerations and our  
8 engineering studies are for us to help understand and  
9 scope what that would look like, but it is ultimately  
10 contingent on the Georgia EPD state plan development.

11                   We do expect this will remain an option with  
12 the state plan, and we don't have any reason to think that  
13 we wouldn't be able to modify or choose that pathway for  
14 these units.

15           Q.       So the results of the engineering study, it's  
16 impossible that they will say something like it's -- we  
17 can't co-fire gas at Bowen and Scherer, that's not what  
18 they're examining?

19           A.       (Witness McNelly) I hate to use the word  
20 "impossible," but, no, that is not expected at all. In  
21 fact, we have evidence, as an earlier counselor asked,  
22 that -- of that conversion process at some of our units in  
23 the state as well as others on the fleet.

24           Q.       Thank you.

25                   Let me switch to ELGs. You mentioned that

1 it's a significant challenge to comply with ELGs, and you  
2 said earlier today that it's going to cost hundreds of  
3 millions of dollars. The controls first -- the controls  
4 you're referring to for ELGs are meant to protect water  
5 resources and human health; is that generally your  
6 understanding of ELGs?

7 A. (Witness McNelly) I think that's generally  
8 the intent of the rules, not sure that this one does more  
9 than what the 2020 rule has already got out there for us,  
10 and so our compliance with the 2020 rule is underway.

11 Commissioners, if you'll recall, there's work  
12 being done at both Plants Bowen and Plant Scherer to  
13 comply with the 2020 ELG rule. It is not a ZLD  
14 requirement, but it does require near-zero controls levels  
15 down to the constituents of concern. And so the treatment  
16 is very good under the 2020 rule.

17 The 2024 rule also requires that you keep  
18 going with that 2020 treatment equipment while you pursue  
19 the 2024 treatment equipment, and so those are both  
20 ongoing at this point.

21 Q. But you recognized in your testimony on  
22 page 7 that those controls are in the best interest of  
23 customers; is that correct?

24 A. (Witness McNelly) Controlling those units and  
25 continuing to operate those units is in the best interest

1 of customers because it provides the most cost-effective  
2 way to meet compliance requirements and provide energy for  
3 this capacity growth.

4 Q. In 2022, it was the company's position that  
5 by complying with the 2020 ELGs at Bowen for two units,  
6 would make the whole plant compliant with the ELG use for  
7 2020. Is that your position for the 2024 ELG rules as  
8 well?

9 A. (Witness McNelly) I wouldn't say it exactly  
10 like that, but I think the concept that you're getting at  
11 is accurate.

12 Commissioners, the ELG treatment system is  
13 sized. It's a common system, and it's sized for a  
14 worst-case max-flow scenario, and that includes a two-unit  
15 or a four-unit look. And so the equipment that we're  
16 installing, both for 2020, and what we anticipate  
17 installing for 2024, would cover the operation of either  
18 two or four of those units.

19 Q. Thanks.

20 MS. ARIZA: I'd like to introduce NRDC, SACE  
21 and Sierra Club Exhibit 1, which is the company's  
22 response to STF-PIA-4-15.

23 For the record, I'll give the court reporter  
24 a public disclosure version, but I'll show the  
25 panel the trade secret version.

1 (The documents referred to were marked for  
2 identification as NRDC/SACE/Sierra Club Exhibit 1.)

3 BY MS. ARIZA:

4 Q. Please let me know when I can ask some  
5 questions.

6 COMMISSIONER PRIDEMORE: Isabella, you've got  
7 extras, so give them to the court reporter. Those  
8 are trade secret. I don't want them going around.

9 MS. ARIZA: I'll get rid of them.

10 BY MS. ARIZA:

11 Q. This discovery response describes the capital  
12 projects that are required and the estimated costs  
13 associated with them for retrofits at Bowen and Scherer  
14 for the 2024 ELG rule; correct?

15 A. (Witness McNelly) Yes.

16 Q. You already said that -- and I'm not going to  
17 ask you about the trade secret numbers. You've already  
18 said those are in the hundreds of millions of dollars.  
19 Importantly, though, the table shows that should you  
20 retire these coal units before 2034, the dollar amount is  
21 zero; correct?

22 A. (Witness McNelly) Yes.

23 Q. Doesn't that mean that -- sorry.

24 That doesn't mean that it will be cheaper to  
25 keep them around, just that keeping them online longer

1 will be more costs?

2 A. (Witness McNelly) I'm not sure I understand  
3 your question. Can you say it again, please?

4 Q. Sorry. Your investment -- your hundreds of  
5 millions of dollars invested in the ELG to keep them  
6 online beyond 2034, doesn't mean that -- you know, sorry.  
7 Strike that.

8 Did you quantify how much additional lifespan  
9 would -- this significant investment would buy for Bowen?

10 A. (Witness McNelly) My group, no. No, not that  
11 I'm aware of. If we did, it would be a different group  
12 that does that.

13 I think it's important to note that -- and  
14 Panel 1 noted this, but these resources are still cheaper  
15 and more economic for customers, even with the ELG  
16 investment, than building new units. And so the idea is  
17 that evaluation is run, and Panel 1 talked about it.  
18 Those are all considered, but the idea is that we're going  
19 to comply with the rules on the books and continue to  
20 operate these units because it's a better economic choice  
21 for our customers and still remains in compliance.

22 Q. As long as the load shows up; correct?

23 A. (Witness McNelly) I mean, I think that's an  
24 understood, but yes.

25 Q. How old is Gaston?

1           A.       (Witness McNelly) I actually don't know the  
2 vintage of those units. I'm sorry.

3           Q.       Does 1960 sound about right?

4           A.       (Witness McNelly) I don't know. I think we  
5 can look it up.

6           Q.       Thank you.

7           A.       (Witness McNelly) Yes, 60's vintage.

8           Q.       So Bowen is just a few years younger;  
9 correct?

10          A.       (Witness McNelly) About a decade and a half.  
11 It's more than just a few years.

12          Q.       Am I right that this discovery response says  
13 that you did not complete a study evaluating the extension  
14 of Gaston beyond 2025, given the age of the plant?

15          A.       (Witness McNelly) Let me look.

16          Q.       It's the footnote.

17          A.       (Witness McNelly) Yeah, I see that. Yes.

18          Q.       And the main panel testified that the  
19 company's currently conducting an RFP; correct? And that  
20 results will be available later this year?

21          A.       (Witness McNelly) Yes.

22          Q.       And part of the reason that RFPs ^under ways  
23 to seek generation to address unprecedented load growth;  
24 correct?

25          A.       (Witness McNelly) Yes.

1           Q.     The point of doing the RFPs to get the  
2 cheapest resources available -- one of the objectives of  
3 conducting an RFP, would you agree with that  
4 characterization?

5           A.     (Witness McNelly) Most cost-effective.  
6 There's lots of things to balance, but certainly  
7 affordability is primary economic choice for our customers  
8 and is very important.

9           Q.     And am I correct that if the RFP identifies  
10 resources cheaper than Bowen, Bowen might not end up being  
11 needed -- you might not need to dispatch it?

12          A.     (Witness McNelly) That's really for Panel 1's  
13 expertise, but, no, that's not my understanding, that  
14 Bowen unit 1 is part of the request of this -- or part of  
15 our plan for the capacity growth, and my understanding is  
16 it's needed in any case.

17          Q.     "In any case" meaning even if the IRP shows  
18 more cost-effective resources?

19          A.     (Witness McNelly) I think the RFP is intended  
20 to show all the resources available, and the ones that  
21 will be selected are the most cost-effective, and I think  
22 it also includes the anticipated extension of those units  
23 being run.

24          Q.     Okay. Thank you.

25                 MS. ARIZA: No further questions.

1 CHAIRMAN SHAW: Okay. Thank you.  
2 Southern Renewable Energy Association.  
3 (No response.)  
4 CHAIRMAN SHAW: Department of Defense.  
5 (No response.)  
6 CHAIRMAN SHAW: Walmart.  
7 MS. EATON: No questions, Mr. Chairman.  
8 CHAIRMAN SHAW: Redirect?  
9 MR. MARZO: Yes, Mr. Chairman, just very  
10 briefly.  
11 REDIRECT EXAMINATION  
12 BY MR. MARZO:  
13 Q. Panel, you were asked some questions earlier  
14 by GIPL counsel related to what she referred to as now  
15 GIPL Exhibit Number 8. It's called the Data Center  
16 Economic Development exhibit. Do you recall those?  
17 A. (Witness McNelly) Yes.  
18 Q. You were asked about the goal of Georgia  
19 Power, and I think carbon reductions and so forth, as part  
20 of that line of cross. And what I want to ask you: Is  
21 the IRP the forums where decisions will be made regarding  
22 resources that will be used to serve Georgia Power  
23 customers?  
24 A. (Witness McNelly) No -- yes, I'm sorry.  
25 Can you ask me that again? I'm reading this



1 thing and not thinking.

2 Q. Okay.

3 A. (Witness McNelly) I really don't -- I need  
4 you to ask me again.

5 Q. Is the IRP the forum where the decision will  
6 be made regarding the resources that will be used to serve  
7 Georgia Power customers?

8 A. (Witness McNelly) Yes.

9 Q. Is it fair to say, to the extent that there  
10 are resources that are selected that result in reductions  
11 to carbon, those would be decisions made by this  
12 Commission?

13 A. (Witness McNelly) That's right. The  
14 Commission would make those decisions.

15 Q. And those decisions would be made when  
16 they're in the best economic value for our customers; is  
17 that correct?

18 A. (Witness McNelly) That is correct.

19 Q. Now, you were also asked some questions  
20 related to the transition away from fossil units to  
21 renewables. And I want to ask you: In this IRP, isn't  
22 the company still adding renewables?

23 A. (Witness McNelly) Yes.

24 Q. And still adding battery storage?

25 A. (Witness McNelly) Yes.

1 Q. And those are noncarbon-emitting resources as  
2 well; correct?

3 A. (Witness McNelly) That's right.

4 Q. You were asked by Sierra Club counsel about  
5 what is Sierra Club Exhibit 1. She asked you some  
6 questions related to -- I can't say Gaston the way she  
7 said it. It sounded a lot younger the way she said it,  
8 but Plant Gaston units, and I think she referred to them  
9 as 1960 vintage units. Do you recall those?

10 A. (Witness McNelly) Yes.

11 Q. Now, isn't it true that Gaston was converted  
12 from coal to gas in 2015, 2016 timeframe, due to the MATS  
13 rule?

14 A. (Witness McNelly) Yes.

15 Q. So Georgia Power -- is it fair to say Georgia  
16 Power customers have invested in Gaston in recent times to  
17 convert them to gas?

18 A. (Witness McNelly) Yes.

19 Q. Okay. And so by extending the life, are  
20 Georgia Power customers getting the benefits of said  
21 investment?

22 A. (Witness McNelly) Yes.

23 MR. MARZO: Thank you, Mr. Chairman. I think  
24 that's all the redirect that I have.

25 CHAIRMAN SHAW: All right. Thank you,

1           Mr. Marzo.

2                   Well, I think we're going to get finished a  
3           little sooner than we thought. That's a good  
4           thing. I don't hear any complaints. But I'll ask  
5           the court reporter at this time to make all  
6           exhibits a part of the record.

7                   And I'd like to thank everyone for their time  
8           and patience, and especially this last panel for  
9           moving pretty fast. And, Panel, y'all can be  
10          excused.

11                   We hope everyone has safe travels, and,  
12          again, thank y'all for the time this week and the  
13          way that everyone's handled themselves, with the  
14          exception of about three people, but none in this  
15          room. So thank y'all, and we are adjourned.

16                   (NRDC/SACE/Sierra Club Exhibit 1 was admitted  
17          into evidence.)

18                   (Hearing adjourned at 5:55 p.m.)  
19  
20  
21  
22  
23  
24  
25

C E R T I F I C A T E

We, Brenda P. Elwell and Kelley Nadotti,  
certified Court Reporters, do hereby certify that the  
foregoing transcript is an accurate record of the  
proceedings had in the above-entitled matter at the time  
and place therein set forth.

Kelley Marie Nadotti, RPR, CCR  
CCR 6256-8388-8026-4192

Brenda P. Elwell, RPR, CCR, B-2023