

February 28, 2025

Ms. Sallie Tanner
Executive Secretary
Georgia Public Service Commission
244 Washington Street, S.W.
Atlanta, Georgia 30334

RE: **Georgia Power Company's 2025 Integrated Resource Plan; Docket No. 56002 and Georgia Power Company's 2025 Application for the Certification, Decertification, and Amended Demand-Side Management Plan; Docket No. 56003**

Dear Ms. Tanner:

Enclosed for filing on behalf of Georgia Power Company is (1) the Direct Testimony of the Panel of Jeffrey R. Grubb, J. Randy Hubbert, M. Brandon Looney, Michael B. Robinson, and Francisco Valle, (2) the Direct Testimony of the Panel of Dr. Ross Beppler, Carley Goff, A. Wilson Mallard, and Andy Phillips, and (3) the Direct Testimony of the Panel of Jennifer S. McNelly and Robert W. Mitchell, III.

Please call me at (404) 885-3779 if you have any questions regarding this filing.

Sincerely,


Allison W. Pryor

Enclosure

STATE OF GEORGIA
BEFORE THE
GEORGIA PUBLIC SERVICE COMMISSION

In Re:

Georgia Power Company's)	Docket No. 56002
2025 Integrated Resource Plan)	

Georgia Power Company's)	Docket No. 56003
2025 Application for the Certification,)	
Decertification, and Amended)	
Demand-Side Management Plan)	

DIRECT TESTIMONY OF
JEFFREY R. GRUBB, J. RANDY HUBBERT, M. BRANDON LOONEY,
MICHAEL B. ROBINSON, AND FRANCISCO VALLE

FEBRUARY 28, 2025

**DIRECT TESTIMONY OF
JEFFREY R. GRUBB, J. RANDY HUBBERT, M. BRANDON LOONEY,
MICHAEL B. ROBINSON, AND FRANCISCO VALLE**

**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**

I. INTRODUCTION

Q. PLEASE STATE YOUR NAMES, TITLES, AND BUSINESS ADDRESSES.

A. My name is Jeffrey R. Grubb. I am the Director of Resource Planning for Georgia Power Company ("Georgia Power" or the "Company"). My business address is 241 Ralph McGill Boulevard N.E., Atlanta, Georgia 30308.

A. My name is James "Randy" Hubbert. I am the Southern Company Services ("SCS") Resource Planning Director. My business address is 600 North 18th Street, Birmingham, Alabama 35203.

A. My name is Michael "Brandon" Looney. I am the Reliability Planning Manager for SCS. My business address is 600 North 18th Street, Birmingham, Alabama 35203.

A. My name is Michael B. Robinson. I am the Vice President for Grid Transformation for Georgia Power. My business address is 241 Ralph McGill Boulevard N.E., Atlanta, Georgia 30308.

A. My name is Francisco Valle. I am the Director of Forecasting and Analytics for SCS. My business address is 241 Ralph McGill Boulevard N.E., Atlanta, Georgia 30308.

1 **Q. MR. GRUBB, PLEASE SUMMARIZE YOUR EDUCATION AND**
2 **PROFESSIONAL EXPERIENCE.**

3 A. I began my career with Georgia Power in 1992 as a cooperative education student in
4 Commercial and Industrial Marketing. I graduated from the Georgia Institute of
5 Technology in 1996 with a Bachelor of Science degree in Mechanical Engineering. After
6 joining the Company as a full-time employee in 1997, I worked in various roles within
7 Marketing until 2001 at which time I participated in a Company developmental program
8 where I gained experience in a wide range of functional areas. During this period, I earned
9 a Master of Business Administration degree from Auburn University in 2000.

10 In 2003, I joined the Resource Policy and Planning organization at Georgia Power where I
11 served as a Project Manager through 2006. From 2007 through 2016, I worked for SCS in
12 various planning roles including SCS Forecasting Team Leader (2007), SCS Fuels
13 Planning Manager (2007–2011), and SCS Resource Planning Project Manager (2011–
14 2016) where I managed the team that supports the development of the Southern Company
15 System (“System”) Integrated Resource Plan (“IRP”). In this role, I supported Georgia
16 Power’s 2013 IRP and 2016 IRP. In 2016, I returned to Georgia Power as Project Manager
17 in Resource Policy and Planning. Beginning in March 2018, I assumed my current position
18 of Director of Resource Planning for Georgia Power where I led the development of the
19 2019 IRP, the 2022 IRP, and the 2023 IRP Update.

20 **Q. MR. GRUBB, HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE GEORGIA**
21 **PUBLIC SERVICE COMMISSION?**

22 A. Yes. I have testified in several proceedings before the Georgia Public Service Commission
23 (“Commission”), including: Georgia Power’s Application for Certification of the 2023
24 Biomass Request for Proposals (“RFP”) Power Purchase Agreements, Docket No. 44880;
25 Georgia Power’s 2023 IRP Update, including the Company’s Application for the
26 Certification of Plant Yates Units 8-10 and Application for Certification of Robins, Moody,
27 Hammond, and McGrau Ford Phase II Battery Energy Storage Systems (“BESS”), Docket
28 No. 55378; Georgia Power’s 2022 IRP, Docket No. 44160; the Review of Georgia Power’s

1 Public Utility Regulatory Policies Act (PURPA) Avoided Cost Methodology, Docket Nos.
2 4822, 16573, and 19279; Georgia Power's 2019 IRP, Docket No. 42310; Georgia Power's
3 Application for the Certification of the 2020/2021 Renewable Energy Development
4 Initiative ("REDI") Utility Scale ("US") Power Purchase Agreements ("PPAs"), Docket
5 No. 42625; Georgia Power's Application for the Certification of the 2018/2019 REDI US
6 PPAs, Docket No. 41596; and Georgia Power's Application for the Certification of the
7 2018/2019 REDI US PPAs for the Commercial and Industrial ("C&I") Program, Docket
8 No. 41734.

9 **Q. MR. HUBBERT, PLEASE SUMMARIZE YOUR EDUCATION AND**
10 **PROFESSIONAL EXPERIENCE.**

11 A. I graduated from Mississippi State University in 2001 with a Bachelor of Science degree
12 in Electrical Engineering. I began my career at SCS in the Transmission Planning
13 organization. I moved to Resource Planning in 2005, where I was responsible for
14 administration of RFPs, PPA development and negotiation, and reliability and reserve
15 margin analysis. In 2007, I transitioned back to Transmission Planning and served in
16 various roles responsible for conducting system impact studies for Open Access
17 Transmission Tariff (OATT) customers, RFPs, and Company-owned resources. In 2011,
18 I moved to the Bulk Power Operations organization within SCS as the Transmission
19 Compliance Manager, where I was responsible for ensuring compliance with all applicable
20 NERC reliability standards. In 2014, I transitioned to the System Operations Manager role
21 where I was responsible for managing the real-time Interchange reliability function, Open
22 Access Same-Time Information System ("OASIS") administration, transmission tagging
23 and scheduling, and data integrity functions.

24 In March of 2016, I moved into the Integrated Resource Planning Manager role at SCS,
25 where I was initially responsible for supporting the development of the System IRP.
26 I subsequently assumed increasing responsibilities, including integrated resource planning,
27 energy budgeting, scenario planning and forecasting, and production cost modeling and
28 analysis for the System. As the Integrated Resource Planning Manager, I supported
29 Georgia Power's 2016, 2019, and 2022 IRPs, as well as the 2023 IRP Update. In 2025,

1 I became the SCS Resource Planning Director, where I am responsible for modeling and
2 analysis for the retail operating companies' capacity and energy requirements. This
3 includes developing annual integrated resource plans and planning scenarios, production
4 cost modeling and energy budgeting, reliability and resiliency planning, and generation
5 asset evaluations.

6 **Q. MR. HUBBERT, HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE**
7 **COMMISSION?**

8 A. No.

9 **Q. MR. LOONEY, PLEASE SUMMARIZE YOUR EDUCATION AND**
10 **PROFESSIONAL EXPERIENCE.**

11 A. I graduated from the University of Alabama in 2003 with a Bachelor of Science degree in
12 Mechanical Engineering. I began my career at SCS in the Engineering and Construction
13 Services organization. During this time, I completed my Master of Business
14 Administration from the University of Alabama at Birmingham and received my
15 Professional Engineering License from the State of Alabama. I moved to Research and
16 Environmental Affairs in 2007 as a Research Engineer responsible for environmental
17 control technology with a focus on compliance with the Mercury and Air Toxics Standards
18 ("MATS"). In 2012, I became the Environmental Controls Research Manager responsible
19 for Southern Company's technology research portfolio for air, land, and water pollutants.

20 In 2013, I transitioned to Southern Company's System Planning organization, where I have
21 held various leadership positions including Asset Management, Renewable Generation
22 Development, and Asset and Environmental Planning. I moved into my current position in
23 2019, where I have primary responsibility for Reliability Planning including the Reserve
24 Margin Study as well as the evaluation for the Company's numerous RFPs. In these roles,
25 I have supported each Georgia Power IRP dating back to 2016 as well as a number of
26 certification filings.

1 **Q. MR. LOONEY, HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE**
2 **COMMISSION?**

3 A. No.

4 **Q. MR. ROBINSON, PLEASE SUMMARIZE YOUR EDUCATION AND**
5 **PROFESSIONAL EXPERIENCE.**

6 A. I graduated from Auburn University in 1993 with a Bachelor of Electrical Engineering.
7 I began my career as a cooperative education student with Georgia Power working in
8 distribution and marketing. After leaving the Company to serve in the United States Navy,
9 I worked for an electric municipality in Texas, the Kerrville Public Utility Board, for five
10 years where I was responsible for all distribution and substation facilities. In 1999,
11 I returned to Southern Company as an engineer on the Enhanced Power Quality team with
12 Alabama Power Company. Throughout my career at Southern Company, I have served in
13 a variety of positions throughout the System, including Principal Engineer in Transmission
14 Planning; Supervisor of the Transmission Maintenance Center in Albany, Georgia;
15 Supervisor of the Transmission Control Center in Valdosta, Georgia; Transmission
16 Planning Manager; South Georgia Area Transmission Manager; Metro South Distribution
17 Manager; and General Manager of Transmission Planning and Operations.

18 From 2017 through 2020, I served as the Power Delivery Operations General Manager for
19 Georgia Power. I then served as Planning, Operations, and Policy Vice President until
20 January 2024, when I transitioned into my current role as Vice President of Grid
21 Transformation. In my current role, I lead an organization responsible for distribution and
22 transmission planning, administration of the Georgia Integrated Transmission System
23 ("ITS"), data analytics and fiber strategy, grid transformation and federal funding strategy,
24 and compliance. I work with multiple organizations to identify the Company's long-term
25 transmission and distribution strategies to address our future needs. I also actively engage
26 with System and industry partners to appropriately identify industry-wide solutions,
27 alternatives, and emerging technologies.

1 **Q. MR. ROBINSON, HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE**
2 **COMMISSION?**

3 A. Yes, I testified before the Commission in Georgia Power's 2023 IRP Update, Docket No.
4 55378; Georgia Power's 2022 Rate Case, Docket No. 44280; Georgia Power's 2022 IRP,
5 Docket No. 44160; and Georgia Power's 2019 Rate Case, Docket No. 42516.

6 **Q. MR. VALLE, PLEASE SUMMARIZE YOUR EDUCATION AND**
7 **PROFESSIONAL EXPERIENCE.**

8 A. I graduated from the Universidad Técnica Federico Santa María in Valparaíso, Chile in
9 1997 with a degree in Electrical Civil Engineering. I also hold a Master of Business
10 Administration from Emory University's Goizueta Business School.

11 I joined Southern Company in 1997 as a Planning Analyst at Edelnor S.A., a subsidiary of
12 Southern Energy Inc., in Santiago, Chile. In 2001, I moved to Atlanta to join Mirant
13 Corporation, where I held multiple roles of increasing responsibility in system planning
14 and market development and gained extensive experience modeling power pools in the
15 United States and valuing generation technologies and demand response ("DR"). Since
16 then, I have worked at SouthStar Energy Services, a subsidiary of Southern Company Gas,
17 and served as the Manager of Risk Analysis Services, a group within the SCS Finance
18 organization. In this role, I was responsible for supporting the selection of optimal
19 financing strategies for Southern Company's debt and equity portfolios and for providing
20 business units with quantitative analysis and risk mitigation strategies. I also supported
21 Georgia Power Market Planning by providing revenue, load forecasting, and risk analysis;
22 performing weather revenue variance analysis; reviewing features of load forecasting
23 models; and more.

24 In September of 2021, I joined Georgia Power as Director of Market Planning. In this role,
25 I led Georgia Power's Forecast and Profitability & Economic Analysis teams, which
26 produced, among other things, the annual peak demand, energy, and revenue forecasts, as
27 well as profitability evaluations of Demand Side Management ("DSM") programs. In
28 March of 2023, I assumed my current position as Director of Forecasting and Analytics for

1 SCS. I lead the forecasting team that provides load forecasting services to SCS, Georgia
2 Power, and Mississippi Power Company as well as the quantitative team that supports
3 capital market operations and provides operational analytics.

4 **Q. MR. VALLE, HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE**
5 **COMMISSION?**

6 A. Yes. I testified in Docket No. 55378, Georgia Power's 2023 IRP Update, Docket No.
7 44160, Georgia Power's 2022 IRP, and Docket No. 44161, Georgia Power's 2022
8 Application for the Certification, Decertification, and Amended Demand Side
9 Management Plan.

10 **Q. WHAT IS THE IRP?**

11 A. The IRP is Georgia Power's comprehensive plan for economically and reliably meeting
12 the electric energy needs of current and future customers over a 20-year planning horizon.
13 Georgia Power develops the triennial IRP as part of a continuous planning process
14 governed by the Commission. The IRP contains the analysis and supporting data that
15 inform the Company's resource planning decisions, including the Company's assumptions
16 and conclusions regarding the impacts of resource options on the future cost and reliability
17 of electric service.

18 The IRP process provides a structured, robust, and well-reasoned framework through
19 which both demand-side and supply-side resources are equitably evaluated to develop a
20 plan that provides reliable and economical electric energy for customers.

21 **Q. HOW DOES THE 2025 IRP RELATE TO THE 2023 IRP UPDATE?**

22 A. The 2023 IRP Update was an interim filing that specifically addressed short-term
23 generation capacity needs associated with rapid, extraordinary load growth. As such, it
24 addressed only those items that needed to be updated - most notably the load forecast,
25 projected capacity needs, and the procurement of resources required to meet those needs.
26 In contrast, the 2025 IRP is a return to Georgia Power's triennial, long-term planning

1 process, as required by statute.¹ The 2025 IRP includes the Company's load and energy
2 forecast, evaluates the existing resources and transmission available to serve that load,
3 identifies capacity needs, and identifies what actions are required, including the
4 procurement of additional resources, to continue providing customers with clean, safe,
5 reliable, and affordable electric service.

6 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

7 A. Our testimony supports and requests approval of Georgia Power's 2025 IRP, including the
8 Company's (i) Application for Certification of Wholesale Capacity from Plant Scherer
9 Unit 3; and (ii) Application for Certification of Capacity from Plant McIntosh Units 10-11
10 and 1A-8A. We incorporate the 2025 IRP as part of our testimony.

11 **Q. PLEASE SUMMARIZE THE TESTIMONY OF THE PANEL.**

12 A. The 2025 IRP establishes a comprehensive strategy to meet the forecasted energy needs of
13 customers and our state as it continues to experience extraordinary growth. The Company
14 proposes a reliable, economical, and diverse resource mix to meet Georgia's growing
15 energy needs and provide clean, safe, reliable, and affordable electric service for its
16 customers. The 2025 IRP leverages innovative customer programs and technologies,
17 enhanced generation procurement processes, a combination of previously approved RFPs
18 and incremental resource requests, strategic transmission planning, opportunities offered
19 by existing generation resources, and new demand-side and distributed energy resource
20 options for the benefit of Georgia Power customers.

21 The 2025 IRP contains an updated load and energy forecast, which addresses the continued
22 strong economic development trends since the Company's 2023 IRP Update with updates
23 to the Company's growing pipeline of potential and committed large load customers.

¹ See O.C.G.A. § 46-3A-2(a) ("On or before January 31, 1992, *and at least every three years thereafter* as may be determined by the commission, each utility shall file with the commission an [IRP] as described in this chapter." (Emphasis supplied)).

1 Georgia Power's risk-adjusted load forecast for winter peak demand from the winter of
2 2024/2025 through the winter of 2030/2031 reflects 8,205 megawatts ("MW") of load
3 growth. The Company projects nearly 6,000 MW of load growth as early as the winter of
4 2028/2029. Over the next ten years—through the winter of 2034/2035—Georgia Power
5 expects up to 9,400 MW of load growth.

6 Through 2031, Georgia Power projects a capacity need of 9,000 MW, which it plans to
7 address through the actions approved in the 2022 IRP and 2023 IRP Update, as well as the
8 incremental requests proposed in this 2025 IRP. Georgia Power's supply-side strategy
9 enhances the reliability, flexibility, and value of generation resources to serve customer
10 needs. Key elements of this strategy include extensions for existing resources, upgrades of
11 existing resources, hydroelectric ("hydro") modernization, and flexible renewable resource
12 procurement, including seeking to add up to 4,000 MW of incremental renewable resources
13 to the electric system by 2035.

14 The Company conducted a Reserve Margin Study to determine the necessary target reserve
15 margins ("TRM") to support System reliability. As approved in prior IRPs, the Reserve
16 Margin Study supports the continued use of seasonal planning. The Company recommends
17 maintaining the current 26% long-term Winter TRM for the System and proposes to
18 increase the Summer TRM to 20%.

19 The Company intends to continue using the Renewable Cost Benefit ("RCB") Framework,
20 consistent with prior Commission approvals, with only minor proposed revisions. In this
21 proceeding, the Company proposes to replace the deferred transmission investment
22 component of the RCB Framework with a locational transmission value component for
23 Distributed Generation ("DG") resources. As revised, the RCB Framework will continue
24 to ensure that Georgia Power's renewable procurement decisions maximize economic and
25 reliability benefits for all customers.

26 The Company updated the Renewable Integration Study pursuant to commitments made in
27 the 2022 IRP. Updating the Renewable Integration Study supports cost-effective and
28 reliable planning and integration. The Renewable Integration Study indicates that

1 significant increases in solar penetration can be achieved while maintaining appropriate
2 levels of reliability for the System and finds that the cost of integrating renewable resources
3 can be significantly reduced by adding flexible resources, such as BESS. These flexible
4 resources can provide essential grid services more efficiently by providing operating
5 reserves at a lower production cost.

6 The Company updated its scenario planning design for the 2025 IRP, particularly in
7 response to revised environmental regulations that require retirement, installation of CCS
8 controls, or restricted operation for natural gas combined cycle units. The 111 GHG Rules,
9 among others, are subject to ongoing legal challenges. Accordingly, the Company's
10 scenario planning assumes compliance with these rules as currently on the books while
11 accounting for uncertainty and incorporating appropriate flexibility. This IRP uses nine
12 planning scenarios, three of which use views where 111 GHG Rules are in effect and six
13 of which use views where 111 GHG Rules are not in effect. These provide a flexible
14 framework for the Company to evaluate its options and make resource planning decisions.

15 Georgia Power's supply side strategy leverages expansion, extension, and investment in
16 existing units while seeking to issue RFPs for additional resources to meet customer needs.
17 The Company's supply-side strategy proposes to continue the operation of Plant Bowen
18 Units 1-4, as well as the extension of six existing units previously granted decertification,
19 to preserve operating capacity. Further, the Company is seeking approval for upgrade
20 projects at 14 existing gas and nuclear units, as well as continued investment in 43 hydro
21 units at nine plants as part of the Company's hydro modernization plan. Georgia Power
22 seeks to issue an All-Source RFP in 2025 for resources to come online in 2032 and 2033.
23 The Company also proposes enhancements to its renewable procurement processes to
24 include a more flexible RFP process that supports additional renewable resources to meet
25 customer subscription demand.

26 Strategic transmission planning and the measured and disciplined expansion of the electric
27 grid is critical to providing clean, safe, reliable, and affordable energy to customers,
28 especially in times of growth, and is a necessary complement to the required expansion of
29 the Company's generating fleet. As such, the 2025 IRP includes (i) the 2024 Georgia ITS

1 Ten-Year Plan, including changes since the 2022 IRP and 2023 IRP Update, (ii) updates
2 on strategic transmission projects since the 2022 IRP to address South to North
3 transmission constraints, and (iii) additional considerations for evolving System needs
4 beyond the traditional ten-year transmission planning window.

5 Serving customers' evolving energy needs requires an integrated, flexible, all-of-the-
6 above, and diversified approach. With the Commission's constructive oversight, Georgia
7 Power's long-term integrated resource planning process – and specifically, the requests set
8 forth in this 2025 IRP – will help ensure the Company can continue to reliably and
9 economically meet the electric energy needs of its customers and Georgia, today and for
10 decades to come.

11 **Q. HOW IS THE REMAINDER OF YOUR TESTIMONY ORGANIZED?**

12 A. The remainder of our testimony is organized as follows:

- 13 • Section II discusses the Company's load and energy forecast.
- 14 • Section III covers reliability, the reserve margin, seasonal planning, the RCB
15 Framework, and the Renewable Integration Study.
- 16 • Section IV details the Company's scenario design and expansion planning
17 processes.
- 18 • Section V addresses the Company's supply-side strategy, including resource
19 extensions, unit upgrades, and hydro modernization investments.
- 20 • Section VI provides the Company's transmission plan and addresses other strategic
21 transmission planning-related issues.
- 22 • Section VII outlines the Company's wholesale to retail capacity offer.

23 **Q. WHAT AREAS OF THE 2025 IRP ARE ADDRESSED BY OTHER WITNESSES?**

24 A. The Panel of Jennifer McNelly and Brett Mitchell provide testimony on the Company's
25 Environmental Compliance Strategy ("ECS") and the carbon pressures facing the
26 Company's generation fleet. The Panel of Ross Beppler, Carley Goff, Wilson Mallard, and
27 Andy Phillips ("Customer Programs Panel") addresses the Company's DSM Plan and

1 Application, proposed Distributed Energy Resource (“DER”) Customer Programs, and
2 enhancements to the Company’s renewable procurement processes and customer
3 renewable programs.

4 **II. LOAD & ENERGY FORECAST**

5 **Q. PLEASE PROVIDE AN OVERVIEW OF THE LOAD AND ENERGY FORECAST**
6 **FILED IN THE 2025 IRP.**

7 A. The Company continues to forecast load and energy for the residential, commercial,
8 industrial, governmental, and MARTA customer groups using its Commission-approved
9 long- and short-term methodologies for the organic forecast, as adjusted for large loads,
10 electric vehicles, behind-the-meter generation, and DSM. The Company’s Budget 2025
11 (“B2025”) Load and Energy Forecast projects continued extraordinary customer load
12 growth stemming from substantial economic development in Georgia. The projected
13 demand now far exceeds the demand projected in the 2022 IRP and 2023 IRP Update. As
14 outlined in the Load and Energy Forecast contained in Technical Appendix Volume 1,
15 current projections reflect winter peak demand load growth of 8,205 MW through the
16 winter of 2030/2031, which reflects a compound annual growth rate of 7%. Further, the
17 forecast projects average annual growth in territorial energy sales of 7,900 gigawatt-hours
18 (“GWh”) from 2024 to 2034, a substantial increase compared to the past forecasts of
19 500 GWh in Budget 2022 and 6,200 GWh in the 2023 IRP Update.

20 **Q. PLEASE DISCUSS THE SCALE AND PACE OF GROWTH AND DEMAND THAT**
21 **HAS OCCURRED SINCE THE 2023 IRP UPDATE.**

22 A. The demand projected in the 2025 IRP load forecast exceeds the demand projected in both
23 the 2023 IRP Update and the 2022 IRP. At the time of the 2022 IRP, the Company

1 anticipated just over 300 MW of growth between the winter of 2024/2025² and the winter
2 of 2030/2031. For this same period, the Company projected approximately 5,900 MW of
3 growth in its 2023 IRP Update.

4 By comparison, Georgia Power's risk-adjusted load forecast from the winter of 2024/2025
5 through the winter of 2030/2031 now reflects 8,205 MW of load growth, representing an
6 increase of more than 2,200 MW compared to the load growth projections in the 2023 IRP
7 Update for the same period. In the near term, the Company projects nearly 6,000 MW of
8 load growth as early as the winter of 2028/2029. Over the next ten years—through the
9 winter of 2034/2035—Georgia Power expects up to 9,400 MW of load growth.

10 Following the 2023 IRP Update, Georgia Power began filing quarterly large load economic
11 development reports, which update the Commission on the large load economic
12 development pipeline identified by the Company. These quarterly reports track the total
13 number of both committed large load customers³ and potential large load customers
14 seeking to locate in Georgia. The reports reflect robust growth in the Company's large load
15 economic development pipeline since the 2023 IRP Update. Growth is up by approximately
16 6.8 GW, from 16 GW at the 2023 IRP Update filing in October 2023 to 22.8 GW by June
17 2024. Over the same eight-month period, the number of committed large load customers
18 grew by 10 projects to 7.3 GW, representing an increase of approximately 3.7 GW.
19 Committed customers' projects are continuing to materialize and now represent 8.1 GW.

² For purposes of this filing, the winter of two years that are listed together refers to the period from December of the first year through February of the following year. For example, the winter of 2030/2031 refers to the period from December 2030 through February 2031.

³ Committed customers are those who have executed a Request for Electric Service from Georgia Power. For purposes of forecasting and planning for large load customers, the Company defines "large load" to be industrial load greater than or equal to 45 MW and commercial load greater than or equal to 115 MW.

1 **Q. PLEASE DISCUSS THE PRIMARY FACTORS DRIVING THE B2025 LOAD**
2 **FORECAST.**

3 A. Several factors are contributing to the B2025 Load and Energy Forecast projections.
4 Georgia's economy is continuing to grow, which increases the need for electricity in
5 businesses and factories. The state's population is also growing, leading to more electricity
6 use in homes. The rise in large commercial and industrial customers, such as data centers
7 and manufacturing plants, is contributing to the new demand. Also, the adoption of electric
8 vehicles, both for personal and business use, is steadily driving up electricity consumption.
9 Technological advancements in solar panels, DERs, and smart appliances are changing
10 how people use electricity. Although improvements in energy efficiency help offset some
11 of the demand, they alone are not enough to keep up with Georgia's growing energy needs.

12 **Q. PLEASE DESCRIBE THE METHODOLOGY USED TO DEVELOP THE**
13 **COMPANY'S ORGANIC FORECAST.**

14 A. The methodology used to develop the Company's organic forecast involves the use of
15 Commission-approved econometric techniques that have been utilized in previous
16 proceedings. This methodology includes a careful examination of key demographic and
17 economic variables that are significant drivers of energy consumption. In addition, the
18 Company uses external adjustments to account for new industries and trends not reflected
19 in historical data.

20 **Q. HOW DOES THE COMPANY ACCOUNT FOR LARGE LOADS IN ITS**
21 **FORECAST?**

22 A. Consistent with the approach used in the 2023 IRP Update, the Company continues to
23 adjust its organic forecast using the Load Realization Model ("LRM"). The Company does
24 not assume that all projects within the large load economic development pipeline or even
25 that the full load of committed projects will materialize. The B2025 Load and Energy
26 Forecast accounts for uncertainties related to new large load projects, including factors
27 such as state selection, electric provider selection, project delays, and the degree to which

1 load materializes. In addition, the Company continues to work directly with customers to
2 understand their electric service needs and the timing in which large load projects will
3 come online. The LRM evaluates thousands of potential combinations of existing and
4 potential economic development loads, which can then be sorted and ranked to create a
5 probability distribution. A probability distribution helps the Company assess the likelihood
6 of the loads it will need to serve. The output of the LRM is the basis for the large load
7 external adjustment applied to the Company's organic load forecast. The results from the
8 LRM support the external adjustment applied to the baseline C&I load and energy
9 forecasts.

10 **Q. HAVE THERE BEEN ANY CHANGES TO THE LOAD REALIZATION MODEL**
11 **SINCE THE 2023 IRP UPDATE?**

12 A. The Company continues to use the same probabilistic model developed in support of the
13 2023 IRP Update. The 2023 IRP Update focused specifically on identifying proposed
14 solutions for near-term challenges associated with rapid, extraordinary load growth. During
15 that proceeding, the Company utilized the 95th percentile (P95) of the large load
16 distribution forecast to ensure the Company would have the resources necessary to reliably
17 serve customers in the near-term considering the accelerated pace of the extraordinary
18 economic growth taking place in Georgia.

19 The 2025 IRP marks a return to Georgia Power's triennial, long-term integrated planning
20 process. This process involves developing the full load and energy forecast, evaluating the
21 existing resources available on the System to serve that load, identifying any resulting
22 capacity needs, and planning the necessary actions for the coming years. For this reason,
23 in the 2025 IRP, the Company is planning a load consistent with the 50th percentile (P50)
24 of the large load distribution.

1 **Q. DOES THE COMPANY MAKE ANY OTHER ADJUSTMENTS TO BASELINE**
2 **LOAD AND ENERGY PROJECTIONS?**

3 A. Yes. In addition to the large load adjustment discussed above, the B2025 Load and Energy
4 Forecast incorporates adjustments for DSM programs and actions, electric vehicles, and
5 behind-the-meter solar.

6 **Q. PLEASE ADDRESS THE CHANGES IN SUMMER AND WINTER PEAK**
7 **DEMANDS SINCE THE 2023 IRP UPDATE.**

8 A. Since the 2023 IRP Update, Georgia Power's projected summer and winter peak demands
9 have significantly increased. While Georgia Power continues to be a summer-peaking
10 utility, winter peaks are also increasing at a faster rate than previously forecasted. From
11 2025 to 2031, winter peaks are projected to grow by approximately 8,200 MW, whereas
12 summer peaks are expected to grow by approximately 8,700 MW during the same period.
13 This accelerated growth in winter peaks is attributed to large commercial and industrial
14 customers operating year-round.

15 **III. RELIABILITY**

16 **Q. WHAT IS "RESOURCE ADEQUACY"?**

17 A. "Resource Adequacy" refers to the level of resources required to maintain an appropriate
18 level of reliability on the electric system. Accepted utility practice requires that an electric
19 utility maintain sufficient supply- and demand-side resources to adequately serve the
20 electricity needs of its customers, including an appropriate reserve margin. Georgia Power
21 ensures Resource Adequacy through the IRP process, which includes a detailed assessment
22 of demand forecasts and available resources and an updated Reserve Margin Study.

1 A. **Reserve Margin Study**

2 Q. **WHAT IS THE RESERVE MARGIN AND WHAT IS ITS PURPOSE?**

3 A. The reserve margin represents the difference between the total existing and committed
4 capacity, including the impact of DR programs, and the Company's projected peak
5 demand. The reserve margin is generally expressed as the percentage of existing and
6 committed capacity above the projected weather-normal peak demand (*e.g.*, a reserve
7 margin of 26% means that existing and committed capacity is 26% above the projected
8 winter weather-normal peak demand). In accordance with accepted utility practice,
9 Georgia Power maintains capacity reserves greater than the Company's projected peak
10 demand to achieve the appropriate level of reliability considering various risk factors (*e.g.*,
11 weather, economic growth uncertainty, generator unit performance, and market availability
12 risk) that could cause the actual peak demand, or generation available to meet the peak
13 demand, to differ from projections.

14 Q. **WHAT IS THE TARGET RESERVE MARGIN?**

15 A. The target reserve margin ("TRM") is the reserve margin the Company uses for reliability
16 planning purposes. The actual reserve margin will vary over time due to variations in the
17 actual peak demand and resource availability, among other things. In contrast, the TRM
18 remains fixed (until updated through a Reserve Margin Study) and guides the Company's
19 resource planning decisions. The Company evaluates three components in determining the
20 TRM: economic value; risk tolerance; and reliability. The TRM is set at a level that will
21 minimize the combined expected costs of maintaining reserve capacity, production costs,
22 and customer costs associated with service interruptions, while adjusting for risk and
23 maintaining a minimum level of reliability.

24 Q. **HOW DOES THE COMPANY ESTABLISH ITS TARGET RESERVE MARGIN?**

25 A. A Reserve Margin Study is conducted by SCS at least every three years. This study allows
26 the Company to establish a TRM for the System considering the costs and risks to
27 customers and the reliability of the System. The target reserve margin for each of the retail

operating companies is then determined, taking into consideration the benefits of System reserve sharing and load diversity.

Q. WHY IS THE RESERVE MARGIN STUDY CONDUCTED AT A SYSTEM LEVEL?

A. A well-designed Reserve Margin Study should represent how an electric system commits and dispatches resources to meet energy demand. Georgia Power participates in a System pooling arrangement and coordinated planning, and it is appropriate that the Reserve Margin Study be consistent with that arrangement.

Q. HOW DO POOL DISPATCH AND COORDINATED PLANNING BENEFIT GEORGIA POWER CUSTOMERS IN THE CONTEXT OF THE TRM?

A. Pool dispatch and coordinated planning provide several benefits for Georgia Power customers as they relate to the TRM. The pooling arrangement optimizes System dispatch and provides for a lower overall System production cost, which puts downward pressure on the reserve margin. The pooling arrangement also allows the System to capture the benefits of load diversity, which leads to a lower target reserve margin for each individual pool participant. Coordinated planning allows for temporary reserve sharing, which may be available to resolve short-term deficits to an individual operating company's target reserve margin.

Q. IS THE COMPANY REQUESTING TO CONTINUE SEASONAL PLANNING AS APPROVED IN THE 2019 AND 2022 IRPS?

A. Yes. The Company's 2024 Reserve Margin Study supports Georgia Power's plans to continue to use seasonal planning to address weather-related reliability risks during the summer and winter. Given that customer load response and resource performance vary across the summer and winter peak periods, it is necessary to evaluate Resource Adequacy in both the summer and winter peak periods to ensure that System reliability has been appropriately evaluated. Moreover, since seasonal planning was approved in the 2019 IRP,

major reliability events encountered across the country have reinforced the importance of seasonal planning.

Q. WHICH SEASON PRESENTS THE GREATEST RELIABILITY RISK?

A. The Reserve Margin Study continues to support that the greatest reliability risk exists in the winter season due to the following drivers: (1) the narrowing of the difference between summer and winter weather-normal peak loads; (2) the distribution and duration of peak loads relative to the norm; (3) cold weather-related unit outages; (4) the penetration of solar resources which correlate more directly to summer peak periods; (5) increased reliance on natural gas which can be constrained in winter peak periods; and (6) market purchase availability.

Q. WHAT ARE THE WINTER AND SUMMER TARGET RESERVE MARGINS THE COMPANY IS SEEKING APPROVAL FOR IN THIS CASE?

A. The Company is seeking approval of the current 26% long-term Winter TRM for the System and approval of a 20% Summer TRM, an increase from the currently approved 16.25% Summer TRM. For the short term (2024-2026), the Company plans to adopt System targets of 19.5% for summer and 25.5% for winter. These values were used to prepare the 2025 IRP filing.

Q. HOW DID THE COMPANY DETERMINE A 20% SUMMER TRM WAS NEEDED?

A. Compared to the results of prior reserve margin studies, the 2024 Reserve Margin Study indicates that the reliability risk for the System is higher than in past years due primarily to sustained high loads across overnight hours observed in recent winter weather events. Thus, with a higher System reliability risk, the seasonal TRM necessary to maintain the Company's minimum loss of load expectation ("LOLE") threshold is also higher.

If the current 26% Winter TRM and 16.25% Summer TRM are retained, the LOLE for the System results in an annual LOLE of one event every eight years, which is well below the

1 Company's minimum reliability threshold of one event in 10 years ("1:10 LOLE").
2 Because the 1:10 LOLE threshold is an annual metric, a reliability change in one season
3 can impact the TRM in the other season required to maintain the 1:10 LOLE. As a result,
4 one of the TRMs, Summer or Winter, must increase to ensure an adequate level of annual
5 System reliability for customers.

6 The current Summer equivalent of a 26% Winter TRM is 24.76%. Since reliability in the
7 winter season is still driving the Company's capacity needs, and winter capacity resources
8 are typically available in the summer, an increase of the Summer TRM to 20% is not
9 expected to increase the need for capacity resources on the System. Thus, to meet its
10 reliability needs without driving the need for additional capacity resources, the Company
11 elected to increase the Summer TRM rather than the Winter TRM.

12 **B. Renewable Cost Benefit Framework**

13 **Q. PLEASE PROVIDE A BRIEF OVERVIEW OF THE RCB FRAMEWORK.**

14 A. The RCB Framework is the Company's established methodology for determining the costs
15 and benefits of renewable resources on the System. The RCB Framework guides resource
16 planning, procurement, and payment activities related to renewable resources and ensures
17 economic and reliable renewable resource integration into the System.

18 **Q. WILL GEORGIA POWER CONTINUE USING THE RCB FRAMEWORK IN THE**
19 **2025 IRP?**

20 A. Yes. The Company intends to continue using the RCB Framework consistent with prior
21 approvals by the Commission. The Company continues to consider ways to improve RCB
22 effectiveness and requests to replace the deferred transmission investment component with
23 a locational transmission value component, as specified in Technical Appendix Volume 2.

1 **Q. PLEASE EXPLAIN HOW THE RCB FRAMEWORK INCORPORATES AND**
2 **CONSIDERS LOCATIONAL VALUE.**

3 A. The Company proposes to reflect local transmission value as a benefit or cost in the RCB
4 Framework for applicable resources submitted into the DG RFPs based on resource
5 location. Technical Appendix Volume 2 provides further information regarding this
6 proposed change. The deferred transmission investment component of the RCB
7 Framework—which is applied to all resources in the DG RFP evaluation process,
8 regardless of location—will be replaced with a geographically differentiated transmission
9 system value in the evaluation process. This change will ensure the portfolio of resources
10 selected provides the maximum benefits to Georgia Power customers. Under the proposed
11 framework, the Company determines the value by evaluating two alternative future system
12 scenarios, one with and one without additional DG resources for each identified geographic
13 region. The transmission investments and in-service timing of projects are also determined
14 for each scenario’s study horizon. The DG analysis is performed based on traditional
15 transmission expansion planning, focusing on how DG resources impact the required in-
16 service date of any identified projects.

17 **Q. WHAT IS THE BENEFIT OF THE COMPANY’S PROPOSAL TO INCLUDE**
18 **LOCATIONAL VALUE IN THE RCB FRAMEWORK?**

19 A. Renewable DG resource portfolios will be selected with consideration of the locational
20 transmission value of the individual resources, resulting in resource portfolios that deliver
21 higher value to customers due to better alignment with long term transmission expansion
22 needs.

23 **Q. HOW WILL THE COMPANY APPLY THE UPDATED RCB FRAMEWORK AND**
24 **LOCATION-BASED EVALUATION METRICS TO RENEWABLE RFP BIDS?**

25 A. The updated RCB Framework introduces a new locational value consideration into the
26 Company’s evaluation of DG renewable resources. Instead of assuming that all DG
27 resources, regardless of location, affect the bulk transmission system the same, resources

1 will be evaluated with a location-specific cost or benefit. This will impact the relative
2 ranking and selection of resources in addition to the consideration of other RCB
3 components such as avoided energy costs. By applying these enhanced metrics, the
4 Company can ensure that renewable procurement decisions maximize economic and
5 reliability benefits for all customers. The Direct Testimony of Witnesses Beppler, Goff,
6 Mallard, and Phillips further describes the impact of locational value considerations on the
7 Company's proposed DG RFP evaluation processes.

8 **C. Renewable Integration Study**

9 **Q. IN PREPARING FOR THE 2025 IRP, DID THE COMPANY UPDATE THE**
10 **RENEWABLE INTEGRATION STUDY IT FILED IN THE 2022 IRP?**

11 A. Yes. In the 2022 IRP, Georgia Power explained that it would update the Renewable
12 Integration Study, similar to the Reserve Margin Study and the RCB Framework, with each
13 IRP. Accordingly, the Company met with the Commission Staff ("Staff") to resolve
14 previously outstanding concerns regarding the Renewable Integration Study and updated
15 the Renewable Integration Study for the 2025 IRP.

16 **Q. WHY IS IT IMPORTANT TO UPDATE THE RENEWABLE INTEGRATION**
17 **STUDY?**

18 A. The Renewable Integration Study evaluates the operational impacts of increased
19 penetration levels of renewable resources on the System. This assessment provides unique
20 insights into certain challenges, opportunities, and most importantly, solutions that enable
21 significant renewable penetration while maintaining a reliable System. The Renewable
22 Integration Study demonstrates that, while renewable integration costs generally increase
23 as more solar is added to the System, the cost is impacted by other resources on the System
24 as well as System cost drivers such as fuel costs. Therefore, updating the analysis supports
25 cost-effective and reliable planning and integration.

1 **Q. PLEASE DISCUSS THE UPDATED RENEWABLE INTEGRATION STUDY**
2 **PROCESS AND RESULTS.**

3 A. The updated Renewable Integration Study indicates that significant increases in solar
4 penetration can be achieved while maintaining appropriate levels of reliability for the
5 System. The Renewable Integration Study also found that the cost of integrating renewable
6 resources can be significantly reduced by adding flexible resources, such as BESS.
7 Maintaining sufficient BESS capacity improves the cost-effectiveness of solar integration,
8 reduces the curtailment of renewable resources, and improves System reliability. In
9 addition, the Renewable Integration Study determined that flexible resources, such as
10 BESS, can provide these essential grid services more efficiently by providing operating
11 reserves at a lower production cost.

12 **IV. SCENARIO DESIGN & EXPANSION PLANNING**

13 A. **Scenario Design**

14 **Q. PLEASE PROVIDE AN OVERVIEW OF GEORGIA POWER'S SCENARIO**
15 **DESIGN PROCESS.**

16 A. Many factors affecting resource planning involve future uncertainties. Thus, the Company
17 creates scenarios to understand these future uncertainties and make appropriate planning
18 decisions. Key uncertainties affecting planning include (1) future pressure on carbon
19 dioxide ("CO₂") and other greenhouse gas ("GHG") emissions, (2) cost and performance
20 of future generating technologies, (3) future load growth, and (4) future fuel prices. The
21 Company identifies plausible views of the future that are meaningfully different from one
22 another in each of these four areas, which are then combined to create several scenarios.
23 The Company then uses its modeling system, Aurora, to identify a least-cost expansion
24 plan that reliably meets load and satisfies many other conditions.

1 **Q. HOW DO THE SCENARIOS USED IN THE 2025 IRP COMPARE TO THE**
2 **SCENARIOS USED IN THE 2022 IRP AND THE 2023 IRP UPDATE?**

3 A. The design of the 2025 IRP scenarios has changed from the 2022 IRP. As part of its annual
4 refresh of the planning scenarios used to conduct resource analyses, the Company considers
5 updates based on multiple factors, including changes in environmental regulation and
6 legislation, technological developments, revised economic projections, communication
7 with current and potential customers, and revised fuel market conditions. As a result, the
8 Company updated its views of future GHG pressure, future technology cost and
9 performance, future load growth, and future fuel prices. The Company created nine
10 scenarios in support of its expansion planning, each of which employ different
11 combinations of the views in these four key areas.

12 The 2023 IRP Update scenarios were very similar to the 2025 IRP scenarios apart from the
13 three 111 GHG Rule scenarios that are included in the 2025 IRP scenarios.

14 **Q. WHAT REGULATORY CHANGES HAVE IMPACTED THE COMPANY'S**
15 **SCENARIO PLANNING?**

16 A. As it relates to pressure on CO₂ emissions (the first uncertainty listed above), in the spring
17 of 2024, the Environmental Protection Agency ("EPA") finalized its Rules revising Section
18 111 of the Clean Air Act ("111 GHG Rules"). The 111 GHG Rules require new natural gas
19 combined cycle units to either install and operate carbon capture and sequestration ("CCS")
20 technology by January 1, 2032, or operate to less than 40% annual capacity factor. In
21 addition, existing coal units have three compliance options: (i) retire by January 1, 2032;
22 (ii) capture and sequester 90% of GHG emissions beginning January 1, 2032; or (iii) co-
23 fire with natural gas (40%) beginning January 1, 2030, and retire by January 1, 2039.

24 Because there are uncertainties surrounding the 111 GHG Rules, such as ongoing legal
25 challenges, state plan development, and feasibility of compliance timelines, the ultimate
26 implementation of the Rules is uncertain. However, the final 111 GHG Rules remain in
27 place during this review. Accordingly, the Company's scenario planning includes two

possibilities—one where the rules remain in effect and one where they do not. Three of the nine scenarios use views where the 111 GHG Rules are in effect, while the remaining six scenarios use views where the 111 GHG Rules do not remain in effect. This approach accounts for this uncertainty and incorporates appropriate flexibility to its compliance strategy.

Q. WHICH SCENARIO IS CONSIDERED THE COMPANY'S BASE CASE?

A. The Company's base case is Scenario 1 – 111-MG0, which assumes a moderate gas, zero-dollar carbon view with the 111 GHG Rules in effect.

Q. WHY DID THE COMPANY MODEL THESE SPECIFIC SCENARIOS?

A. As the energy industry experiences rapid change on numerous fronts (*e.g.* technology, fuel costs, regulatory changes), the Company continues to utilize a scenario planning process that provides for maximum flexibility, optionality, and innovation. While these scenarios cannot address every future possibility, they address sufficient futures to ensure the Company can provide reliable and affordable service even if the future is different than the Company forecasts today.

Q. HOW ARE THESE SCENARIOS USED IN THE COMPANY'S IRP ANALYSES?

A. Collectively, the nine planning scenarios provide a framework for the Company to evaluate its options and make resource planning decisions. The scenarios are used in the analyses supporting the 2025 IRP, including but not limited to the resource mix study, unit retirement studies, unit upgrade analyses, and DSM analyses. Not every scenario is used in each analysis, but all nine scenarios are available for use, as applicable.

1 **B. Resource Mix Study and Expansion Planning**

2 **Q. WHAT IS THE PURPOSE OF THE RESOURCE MIX STUDY AND THE**
3 **GENERIC EXPANSION PLANS?**

4 A. The Company's expansion planning analysis identifies the economically optimal mix of
5 resources that reliably meet future capacity and energy demands. In this step of the
6 planning process, demand-side resources are integrated with supply-side resources to
7 provide a roadmap that informs long-term resource planning decisions. Significantly,
8 generic expansion plans do not represent a resource planning decision by the Company but
9 rather are indicative of what may be an optimal mix of resources within various future
10 scenarios. The results of generic expansion plan modeling are combined with the existing
11 fleet of resources as inputs into more detailed production cost modeling to produce hourly
12 avoided energy costs for each scenario. Using this information, the Company performs
13 resource-specific economic evaluations for both demand-side and supply-side options.
14 When Georgia Power evaluates actual resources to meet the capacity needs identified in
15 the IRP, the generation resources procured will be selected in accordance with the
16 Commission's RFP rules. Thus, the purpose of the expansion planning process is to
17 evaluate capacity and energy resource *options* to meet the Company's identified capacity
18 need across a wide range of potential future scenarios.

19 **V. SUPPLY-SIDE STRATEGY**

20 **A. Overview**

21 **Q. PLEASE DESCRIBE GEORGIA POWER'S PROPOSED SUPPLY-SIDE PLAN.**

22 A. For the 2025 IRP, Georgia Power employed a comprehensive supply-side strategy
23 designed to enhance the reliability, flexibility, and value of resources for the benefit of
24 customer needs. As described more fully below, the Company's diversified approach
25 leverages economical extensions and enhancements to existing generating resources as
26 well as new procurements, which are necessary to ensure reliable and economical service
27 to customers and a growing Georgia.

1 In addition to the proposed continued operation of Plant Bowen Units 1–4, key elements
2 of the Company’s supply-side strategy include the following:

- 3 • Resource Extensions: Includes extending operation of six existing generating units
4 to preserve operating capacity.
- 5 • Resource Upgrades: Includes upgrade projects for 14 existing gas and nuclear units.
- 6 • Hydro Modernization: Includes investment in 43 existing hydro units at nine plants.
- 7 • Renewable Procurement: RFPs designed to procure energy from up to 4,000 MW
8 of renewable resources by 2035.

9 ***B. Resource Extensions & Continued Operation***

10 **Q. PLEASE DESCRIBE THE COMPANY’S REQUEST TO PRESERVE EXISTING**
11 **OPERATING CAPACITY.**

12 A. The Company requests to preserve 1,007 MW of reliable, existing operating capacity by
13 extending the operation of six generating units: Plant Scherer Unit 3; and Plant Gaston
14 Units 1-4 and A. The Company seeks to extend the operation of Plant Scherer Unit 3
15 beyond December 31, 2028, assuming operation of this unit through the end of either 2035
16 or 2038, depending on the planning scenario. The Company requests to extend operation
17 of Plant Gaston Units 1-4 and A beyond December 31, 2028, and assume operation through
18 the end of 2034.

19 **Q. WHAT HAS CHANGED SINCE THE COMPANY RECOMMENDED NEAR-**
20 **TERM RETIREMENT DATES FOR PLANT SCHERER UNIT 3 AND PLANT**
21 **GASTON UNITS 1-4 AND UNIT A IN THE 2022 IRP?**

22 A. In the 2022 IRP, Georgia Power recommended the decertification and retirement of Plant
23 Scherer Unit 3, Plant Gaston Units 1-4, and Unit A by December 31, 2028. These
24 recommendations were based on the substantial economic benefits provided by the low-
25 cost, valuable replacement generation identified in the 2022-2028 Capacity RFP, which

1 was intended to meet the capacity needs driven by the planned retirement of coal units and
2 the relatively low levels of load growth projected at that time. However, given the rapid
3 expansion of economic development following the 2022 IRP, as recognized in the 2023
4 IRP Update, and further forecasted growth in this 2025 IRP, the Company's projected
5 capacity needs require the extension of existing coal and gas-steam units in addition to the
6 procurement of new capacity resources. Extending the operations of these existing
7 generating units provides immediate economic value and efficiencies to the System,
8 reducing the need to immediately construct new resources. Thus, the 2025 IRP updates the
9 retirement dates for certain generating resources to ensure continued reliability and provide
10 economic benefits for customers.

11 **Q. HOW DID THE COMPANY DETERMINE THAT EXTENDING OPERATION AT**
12 **PLANT SCHERER UNIT 3 AND PLANT GASTON UNITS 1-4 AND UNIT A WAS**
13 **IN THE BEST INTERESTS OF CUSTOMERS?**

14 A. The Unit Retirement Study in Technical Appendix Volume 1 includes an updated
15 economic analysis that supports extending operation of these existing generating units. The
16 analysis evaluates the economic implications of new environmental regulations, including
17 the 2024 ELG Rule and the 111 GHG Rules as discussed further by Witnesses McNelly
18 and Mitchell. The Unit Retirement Study compares the costs and benefits of the available
19 environmental compliance pathways compared to the cost and timing of replacement
20 alternatives. Given the Company's significant capacity needs and the costs associated with
21 replacement generation, including the cost of supporting infrastructure such as
22 transmission lines and natural gas pipelines, the continued operation of existing generating
23 units with the compliance options recommended is more cost effective and poses lower
24 risk than other pathways including retirement.

25 **Q. PLEASE DESCRIBE THE COMPANY'S REQUEST TO CONTINUE**
26 **OPERATING BOWEN UNITS 1-4.**

27 A. In the 2022 IRP, the Commission deferred a decision on the retirement of Plant Bowen
28 Units 1-2 to the 2025 IRP, with a potential retirement date as early as December 31, 2027.

1 Due to the significant increase in forecasted overall load growth since the 2022 IRP and
2 2023 IRP Update, the Company reevaluated its retirement recommendation for Plant
3 Bowen Units 1-4 and is requesting to continue operating the units with necessary
4 investments in environmental controls through at least 2035.

5 **Q. IS THE CONTINUED OPERATION OF BOWEN UNITS 1-4 IN THE BEST**
6 **INTERESTS OF CUSTOMERS?**

7 A. Yes. The updated economic analysis included in Technical Appendix Volume 1 supports
8 continued operation at Bowen Units 1-4 as a reliable and economical resource, even when
9 considering the impacts of the 111 GHG Rules and 2024 ELG Rule. The Company plans
10 to install ELG controls by December 31, 2029, as required to comply with the 2024 ELG
11 Rule, which will preserve the ability to operate these units beyond 2034. Additionally,
12 installing these ELG controls will provide Georgia Power with greater 111 GHG Rules
13 compliance flexibility, enabling the natural gas co-fire compliance pathway to be selected
14 during the state plan development process.

15 The co-fire compliance pathway permits operation until December 31, 2038, and defers
16 the need for replacement capacity until 2039. This pathway is more optimal for customers
17 than the other 111 GHG Rules compliance options and acknowledges that retirement by
18 January 1, 2032, for these units is not practicable due to reliability and projected capacity
19 needs. In addition, maintaining dispatchable generation in north Georgia is crucial for
20 reliability. The continued operation of Plant Bowen Units 1-4 provides a reliable source of
21 generation necessary to meet the needs of customers and maintain optionality and
22 flexibility in the Company's environmental compliance strategy and long-term resource
23 planning.

24 **C. Gas Unit Upgrades**

25 **Q. PLEASE DESCRIBE THE PLANNED UPGRADES AT MCINTOSH UNITS 10-11.**

26 A. The upgrade opportunity being evaluated and recommended for the combined cycles at
27 McIntosh Units 10-11 is the General Electric ("GE") 7FA.05 upgrade. The scope of this

1 upgrade includes replacing rotating blades and stationary vanes in the CTs (two CTs per
2 combined cycle unit), combustor replacement, increasing firing temperature and shaft
3 limits, and additional operating mode flexibility. This upgrade is projected to achieve an
4 incremental capacity of 194 MW (winter). This enhancement increases the capacity of
5 these existing combined cycle units while also improving the heat rate.

6 **Q. PLEASE DESCRIBE THE PLANNED UPGRADES AT MCINTOSH UNITS 1A-8A.**

7 A. The Company seeks to replace existing turbine components at McIntosh Units 1A-8A,
8 which will allow each unit to operate at a higher capacity. The replacement components
9 cost less than the in-kind replacement parts, which reduces the capital budget. This upgrade
10 will provide an additional 74.4 MW (winter) of incremental capacity over a staggered
11 schedule from 2026 to 2033. These upgrades are designed to provide additional economic
12 peaking capacity, ensuring the existing plant can meet peak demand periods more
13 effectively.

14 **Q. HOW DID THE COMPANY DETERMINE THAT UPGRADING THESE**
15 **RESOURCES WAS IN THE BEST INTEREST OF CUSTOMERS?**

16 A. Along with the positive economic evaluation outcome detailed in the Unit Upgrade
17 Analyses included in Technical Appendix Volume 1, these upgrades improve the
18 efficiency of existing resources to deliver economical capacity during a time in which
19 capacity resources are needed to support load. These projects benefit customers as they do
20 not carry the risk associated with new site construction nor do they require a high level of
21 transmission project investment.

22 **D. Nuclear Unit Upgrades**

23 **Q. PLEASE DESCRIBE THE PLANNED UPGRADES AT HATCH UNITS 1-2 and**
24 **PLANT VOGTLE UNITS 1-2.**

25 A. The Company has proposed extended power uprates (“EPU”) at Plant Hatch Units 1-2 and
26 Plant Vogtle Units 1-2. These EPUs result in greater electrical power generation by

1 increasing the thermal output of the nuclear reactors. Similar to the natural gas upgrades
2 discussed above, these upgrades at existing nuclear units will provide additional capacity
3 to serve customers without the expected need for a high level of incremental transmission
4 system investments and without new site construction risks.

5 **Q. HOW DID THE COMPANY DETERMINE THAT UPGRADING THESE**
6 **RESOURCES WAS IN THE BEST INTERESTS OF CUSTOMERS?**

7 A. As described in the Unit Upgrade Analyses in Technical Appendix Volume 1, the
8 Company’s economic analysis demonstrates that the proposed upgrades are cost-effective
9 compared to the existing unit configurations, particularly with consideration for potential
10 future customer subscription opportunities. Further, the upgrade investments are supported
11 by both federal and state tax incentives such as the IRA-enabled production tax credits
12 (“PTCs”), which would provide 10 years of benefit for the high-capacity factor achieved
13 through these upgrades. These strategic upgrades leverage existing facilities and provide
14 customers with economical, carbon-free baseload generation.

15 **E. Hydro Modernization Investments**

16 **Q. WHAT PROGRESS HAS GEORGIA POWER MADE ON ITS HYDRO FLEET**
17 **MODERNIZATION PROJECTS SINCE THE 2022 IRP?**

18 A. To date, the Commission has approved seven hydro modernization projects, including
19 Plant Terrora, Plant Tugalo, Plant Bartletts Ferry Units 1-4, Plant Nacoochee, and Plant
20 Oliver in the 2019 IRP, as well as Plant Burton and Plant Sinclair in the 2022 IRP. Since
21 then, the Company has continued making significant progress on each of these projects
22 through the design, engineering, procurement, and construction of highly specialized hydro
23 generation equipment.

24 The modernization project for Plant Terrora Units 1-2 was completed on time and under
25 budget, with the units returning to normal operation in November 2021 and December
26 2020, respectively. Since the 2022 IRP, the modernization projects were completed for
27 Plant Tugalo Units 1-2 in 2023—months ahead of schedule, leading to project cost savings.

1 The modernization project for Plant Tugalo Unit 3 was completed in 2024, and installation
2 work is ongoing for Unit 4 with expected completion in the first half of 2025. Engineering
3 and procurement activities have been completed for Plant Bartletts Ferry Units 1-4.
4 Construction is ongoing at the site, where challenges associated with supply chain issues
5 and the identification of more equipment wear and damage than anticipated are expected
6 to result in overall delays to the project. Engineering and procurement processes are in
7 progress for the remaining plants approved for hydro modernization, including Plants
8 Burton and Sinclair. The Company has kept the Commission abreast of its progress on
9 these units through bi-annual reports in Docket Nos. 42310 and 44160.

10 **Q. IS GEORGIA POWER REQUESTING APPROVAL FOR ADDITIONAL HYDRO**
11 **INVESTMENTS IN THE 2025 IRP?**

12 A. Yes. The Company requests approval to complete the hydro modernization projects on its
13 remaining hydro generating fleet, which includes:

- 14 • Plant Tallulah and Plant Yonah in the North Georgia Hydro Group;
- 15 • Plant Bartletts Ferry Units 5-6, Plant Goat Rock, and Plant North Highlands in the
16 Chattahoochee Hydro Group;
- 17 • Plant Lloyd Shoals and Plant Wallace (including Units 1, 2, 5 & 6 Pumped Storage and
18 Units 3-4) in the Central Georgia Hydro Group; and
- 19 • Plants Flint River and Morgan Falls.

20 Hydro modernization projects at these facilities include critical replacements and/or
21 refurbishments needed for turbines, generators, and balance of plant equipment.

22 Maintaining, investing, and operating these emission-free hydro resources will preserve
23 665 MW of capacity for the benefit of customers. By completing these projects, the
24 Company can better maintain and operate these emissions-free capacity resources, helping
25 to fully optimize fleet operation and maximize fleet flexibility. The hydro modernization
26 section of Technical Appendix Volume 1 includes the estimated capital costs, cost benefit

1 analyses, and economic comparisons of alternatives to modernization and associated
2 supporting materials.

3 **Q. PLEASE DESCRIBE GEORGIA POWER’S REQUEST TO DEVELOP, OWN,**
4 **AND OPERATE INCREMENTAL CAPACITY AT PLANT GOAT ROCK**
5 **UNITS 3-6.**

6 A. Georgia Power requests Commission authority to develop, own, and operate the increased
7 capacity associated with turbine redevelopment to correct a flow imbalance in the
8 Chattahoochee Hydro Group. The redevelopment of the turbines is expected to increase
9 the capacity of each unit by approximately 4 MW, bringing the capacity of the entire Goat
10 Rock hydro facility from approximately 39 MW to approximately 55 MW. This
11 redevelopment will allow for maximizing water usage for economical energy production
12 at Plant Goat Rock, as well as allowing for the most efficient operation of the associated
13 river chain of hydro plants.

14 If this request is approved, the Company plans to complete further engineering and
15 procurement to determine the optimal technology solution and design for these units. The
16 Company will provide a certification amendment application for Commission approval
17 once finalized.

18 **Q. HOW DID THE COMPANY DETERMINE THAT MODERNIZATION OF THE**
19 **REMAINING NINE HYDRO FACILITIES WAS IN THE BEST INTERESTS OF**
20 **CUSTOMERS?**

21 A. The Company performed a cost-benefit analysis and economic comparisons of alternatives
22 to modernization for the requested sites. Specifically, the Company performed an economic
23 analysis comparing hydro modernization at the requested sites to two alternative options:
24 (1) removal of generation assets while maintaining the dam structure, known as the “unit
25 retrofit” option; and (2) removal of generation assets and the dam structure, known as the
26 “dam removal” option.

1 The unit retrofit option was eliminated because it was deemed impracticable to maintain a
2 dam structure and allow for water flow without any generation. This option was not found
3 to be a proven technology option for the hydropower industry. Further, the lack of
4 generation under this option would likely risk the surrender of the plants' Federal Energy
5 Regulatory Commission ("FERC") licenses, at which point the ownership, control, and
6 regulation of the dam structure would become uncertain, creating unknown risks and
7 unknown costs for Georgia Power's customers.

8 The dam removal option was evaluated for Plant Burton and all the remaining hydro
9 facilities requested in this IRP and was found to be uneconomical in the cost-benefit
10 comparison to hydro modernization. As demonstrated in the Company's Technical
11 Appendix, the cost to remove the dam holds high uncertainty and could be up to 300% of
12 base costs used in the analysis.⁴ Additionally, these facilities are all licensed by FERC
13 under the Federal Power Act, which requires license holders like the Company to make all
14 necessary replacements to maintain facilities in a condition adequate for the efficient
15 operation in the development and transmission of power. The FERC licenses associated
16 with the remaining hydro plants are based on the facilities' ability to meet the power and
17 water flow requirements contained in the license. If the generation cannot be maintained,
18 the Company would be required to apply and receive approval for a FERC license
19 surrender for a dam removal and its associated loss of generation.

20 Thus, modernization is needed to continue the operation of these hydro plants and to ensure
21 compliance with the plants' FERC licensing. The equipment at these facilities is nearing
22 the end of its service life and must be replaced or refurbished in order to maintain the
23 plants' FERC licensing, which requires efficient generation and transmission of power.
24 Technical Appendix Volume 1 includes estimated capital costs for the Hydro

⁴ See Technical Appendix Vol. 1, Hydro Modernization, Table 3.

1 Modernization projects for the remaining nine hydro plants, as well as the required cost-
2 benefit analysis supporting the investments.

3 **Q. IS MODERNIZATION THE MOST ECONOMICAL OPTION FOR ALL NINE**
4 **HYDRO PLANTS?**

5 The economic analysis shows that modernization is the most economical option for all
6 newly requested projects, except for Plant Morgan Falls. Plant Morgan Falls provides
7 several qualitative benefits, and the Company requests approval of the Plant Morgan Falls
8 modernization project to keep that facility operational for multiple ongoing benefits that
9 are in the best interest of customers. As the Company's oldest hydro plant, two of the seven
10 units at Plant Morgan Falls are already out of service due to equipment failures, so
11 modernization is required to bring these units back into service. Further, water releases
12 from Plant Morgan Falls are among the main water supply sources for metro Atlanta, and
13 agreements with the Atlanta Regional Commission require water levels at Plant Morgan
14 Falls to be sufficiently maintained to meet Atlanta's water needs. Finally, Plant Morgan
15 Falls provides recreational and community benefits through its location on federal lands
16 within the Chattahoochee River National Recreation Area. In short, Plant Morgan Falls is
17 crucial to both Atlanta's water supply and the local community. Thus, the approval of all
18 nine hydro modernization projects, including for Plant Morgan Falls, yields economic and
19 qualitative benefits for Georgia Power Customers. Accordingly, the Company seeks
20 approval for all nine newly requested modernization projects.

21 **Q. WHY IS IT BENEFICIAL FOR THE COMMISSION TO APPROVE**
22 **MODERNIZATION FOR ALL NINE REMAINING HYDRO FACILITIES?**

23 Modernization of all remaining units in the hydro fleet provides several key benefits to
24 Georgia Power customers. The sooner that modernization is completed, the sooner the
25 Company will be able to fully gain the benefits of enhanced fleet dispatch and operational
26 efficiencies at each river chain. Approval will also provide the Company with greater
27 flexibility to address sites with the most pressing needs and mitigate extended outages as
28 conditions change among the fleet; this particular benefit will positively impact the overall

modernization schedule. Additionally, approval will maximize flexibility and efficiency related to supply chain, permitting, and labor force challenges and clean energy incentives such as grant and loan opportunities. Importantly, approval of the remaining facilities will allow the Company to effectively retain and utilize a workforce that is trained and experienced in these types of upgrades, thereby improving the Company's ability to successfully and efficiently modernize its remaining units.

F. Capacity RFP

Q. PLEASE DESCRIBE THE COMPANY'S PROPOSED ALL-SOURCE CAPACITY RFP.

A. The Company plans to issue an All-Source Capacity RFP in the third quarter of 2025 to meet its capacity need through 2032 and 2033. The target capacity range to be procured through this RFP will be determined based on the Company's capacity needs at the time the RFP is issued, which will be informed by the outcome of this 2025 IRP and the results of the Company's active capacity RFPs, with the ultimate amount of capacity procured to be determined at the time of certification of the resources resulting from the RFP.

Subsequent capacity RFPs for needs beyond 2032 and 2033 will be brought to the Commission for approval based on the required lead time for the RFP process plus construction of any new-build generation and transmission assets.

VI. TRANSMISSION AND INNOVATIVE SOLUTIONS

Q. PLEASE DESCRIBE GEORGIA POWER'S TEN-YEAR TRANSMISSION PLAN FILED IN THE 2023 IRP UPDATE.

A. The 2025 IRP includes the 2024 Georgia ITS Ten-Year Plan, which incorporates generation and load growth updates for Georgia Power, the Georgia Transmission Corporation ("GTC"), the Municipal Electric Authority of Georgia ("MEAG Power"), and Dalton Utilities (collectively, the "ITS Participants"). This Ten-Year Plan, which has been filed annually pursuant to the Commission's Order in the 2022 IRP, includes changes since

1 the 2022 IRP and 2023 IRP Update. As a complement to the Ten-Year Plan, the 2025 IRP
2 also includes a comprehensive bulk transmission plan of the Georgia ITS summarizing
3 studies, project lists, processes, data files, and other information required by the amended
4 Commission Rules adopted by the Commission in Docket No. 25981.

5 **Q. PLEASE ELABORATE ON THE REGIONAL COLLABORATION AND**
6 **COORDINATION THAT INFORMS THE TRANSMISSION PLANNING**
7 **PROCESS.**

8 A. Sections A, B, and D, and E1 of Technical Appendix Volume 3 detail the Georgia ITS and
9 Southeast Regional Transmission Planning (“SERTP”) planning processes. These
10 examples demonstrate how the Company is involved in robust collaborative transmission
11 planning processes. For example, the SERTP planning process provides an open and
12 transparent transmission planning forum for transmission providers to engage with
13 stakeholders regarding transmission plans in the region.⁵ Stakeholders such as developers
14 and Staff regularly attend the quarterly SERTP meetings, during which they can provide
15 input on transmission plans. Information on how to participate in the meetings is posted
16 publicly on the Company’s OASIS website and through the SERTP website.

17 A. **Strategic Transmission**

18 **Q. PLEASE DISCUSS THE COMPANY’S STRATEGIC TRANSMISSION**
19 **PLANNING PROCESS.**

20 A. The consideration of transmission system impacts when making generation resource
21 decisions is a key aspect of the IRP. The Company routinely takes these considerations into
22 account by completing transmission evaluations separate from and incremental to the
23 standard ten-year transmission planning processes. For example, the Company’s

⁵ SERTP includes the following sponsors: Southern Company, Dalton Utilities, Georgia Transmission Corporation, the Municipal Electric Authority of Georgia, PowerSouth, Louisville Gas & Electric Company and Kentucky Utilities Company, Associated Electric Cooperative Inc., the Tennessee Valley Authority, and Duke Energy (Duke Energy Carolinas, LLCs and Duke Energy Progress, Inc.).

transmission planning process includes identification of strategic transmission projects that are included in this filing. These projects are also developed through the joint planning efforts with other ITS Participants to identify effective solutions that lessen the impact to the transmission system while projects are under construction.

Q. WHAT STRATEGIC TRANSMISSION INVESTMENTS ARE ADDRESSED IN THE 2025 IRP?

A. Since the 2022 IRP, Georgia Power, in conjunction with the other ITS Participants, developed and initiated the projects in Table 11.3 of the 2025 IRP Main Document. Transmission projects listed in Table 11.3, which were first identified and included in the 2021, 2022, and 2023 Georgia ITS Ten-Year Plans, were identified and selected to improve power transfer from South Georgia to North Georgia (formerly known as the North Georgia Reliability & Resiliency Action Plan), while preparing the transmission system for generation fleet transitions. In contrast, transmission projects listed in Table 11.3 that were first identified and included in the 2024 Georgia ITS Ten-Year plan were selected primarily to accommodate load growth and generation additions while maintaining System reliability.

Q. HOW WILL THE COMPANY APPROACH STRATEGIC TRANSMISSION PLANNING GOING FORWARD?

A. Georgia Power will implement additional planning considerations and process enhancements beyond the ten-year transmission planning horizon described above to address long-lead integrated system projects. It is becoming more common in the utility industry to extend the planning horizon beyond ten years. This longer-term planning horizon will allow the necessary lead time to both identify and execute the most effective solutions that appropriately balance local and regional considerations. Moreover, System needs and growth continue moving at an extraordinary pace. Therefore, the Company plans to integrate a more strategic planning approach to expand transmission capacity with local future siting considerations going forward.

1 **Q. DID THE COMPANY USE THIS EXTENDED HORIZON FOR STRATEGIC**
2 **TRANSMISSION PROJECTS INCLUDED IN THE 2025 IRP?**

3 A. No. Georgia Power will implement the extended horizon in future planning cycles.

4 **B. Innovative Transmission Solutions**

5 **Q. PLEASE DISCUSS THE INNOVATIVE TRANSMISSION SOLUTIONS THAT**
6 **THE COMPANY CONSIDERS AND DEPLOYS THROUGHOUT THE**
7 **TRANSMISSION PLANNING PROCESS.**

8 A. The Company remains committed to exploring and implementing a diverse portfolio of
9 solutions to both meet customer needs and ensure grid reliability in a cost-effective manner.
10 For example, the Company continues deploying innovative transmission solutions using
11 grid-enhancing technologies (“GETs”), where these technologies are safe, reliable, and
12 economical. The Company also deploys other innovative solutions, including non-wires
13 alternative (“NWA”) solutions. Although there is some overlap between GETs and NWA
14 solutions, GETs can be deployed in a variety of circumstances, including wires-based
15 solutions.

16 **Q. WHAT ARE “GETs”?**

17 A. GETs refer to a portfolio of technologies focused on increasing grid capacity and enabling
18 the further reliable integration of inverter-based generation resources. Consistent with the
19 Electric Power Research Institute, the Company defines GETs across four primary
20 technology categories: Advanced Conductors; Advanced Power Flow Control; Topology
21 Optimization; and Adaptive Line Ratings. The Company also includes flexible AC
22 transmission systems technologies in the GETs portfolio.

23 Georgia Power will continue exploring all opportunities to defer the need for transmission
24 upgrades to accommodate future load growth and proposed generation additions by
25 deploying GETs and other innovative solutions.

1 **Q. ARE THERE OTHER INNOVATIVE TECHNOLOGY SOLUTIONS REQUIRED**
2 **TO SUPPORT GRID RELIABILITY THAT ARE INCLUDED IN THE 2025 IRP?**

3 A. Yes. Georgia Power was previously approved to begin preliminary steps to invest in a
4 Distributed Energy Resource Management System (“DERMS”) to prepare the grid for
5 increasing levels of DER penetration. Enhanced control of DERs will enable the Company
6 to leverage DERs to ensure optimal grid operation. Specifically, having enhanced control
7 of DERs through DERMS further supports grid reliability and expands potential use cases
8 for DERs that can be reflected in customer program incentive valuations. These programs
9 are further described in Customer Programs Panel Direct Testimony.

10 **Q. WHAT SPECIFIC APPROVALS RELATED TO DERMS WERE GRANTED IN**
11 **GEORGIA POWER’S 2022 RATE CASE, AND HOW HAVE THEY SHAPED THE**
12 **COMPANY’S APPROACH TO DERMS IMPLEMENTATION IN THE 2025 IRP?**

13 A. The Commission’s Order in Georgia Power’s 2022 Rate Case authorized the Company to
14 move forward with preliminary steps to support the development and deployment of a
15 DERMS for the purposes of gaining visibility and forecasting of DERs. This approval
16 allowed Georgia Power to begin investing in the necessary infrastructure, software, and
17 operational frameworks to integrate DERs into grid operations. However, to more fully
18 take advantage of customer DER programs and optimize dispatchable customer-sited
19 resources for grid reliability, the Company is requesting approval for enhanced control
20 capabilities of DERs through its DERMS.

21 **Q. WHAT SPECIFIC CAPABILITIES WILL GEORGIA POWER’S DERMS**
22 **PLATFORM PROVIDE TO SUPPORT THE INTEGRATION OF DERs?**

23 A. Georgia Power’s DERMS will provide visibility, modeling, and control of DERs, enabling
24 the Company to leverage DERs and optimize operations across asset types and use cases
25 based on System needs. DERMS will be capable of forecasting DER generation, managing
26 grid constraints, and coordinating DER output to enhance System reliability. It will also
27 allow for automated responses to grid disturbances by adjusting DER contributions,

1 ensuring they can provide grid support services efficiently. To achieve these outcomes,
2 DERMS will facilitate communication between Georgia Power's grid operations and
3 various DER assets both Company- and customer-owned, such as battery storage,
4 customer-sited solar, and demand response resources like those described in the Customer
5 Programs Panel.

6 **Q. HAS THE COMPANY PURSUED STATE OR FEDERAL FUNDING**
7 **OPPORTUNITIES FOR TRANSMISSION-RELATED INVESTMENTS?**

8 A. Yes. The Company continues to seek alternate sources of funding where applicable to
9 minimize cost impacts to customers, including transmission system investments. In fact,
10 Georgia Power has been conditionally awarded approximately \$160 million of grant
11 funding through the DOE's Grid Resilience and Innovation Partnerships (GRIP) program.
12 This grant focuses on the deployment of innovative solutions through new GETs on the
13 Company's transmission grid, specifically through the deployment of advanced conductor
14 and dynamic line rating technologies.

15 In addition, Georgia Power is currently pursuing DOE Title 17 loan opportunities that
16 support Energy Infrastructure Reinvestment. The outstanding funding requests include a
17 portion of the transmission investments included in the Company's portion of the Georgia
18 ITS Ten-Year Transmission Plan, strategic transmission projects, and continued
19 deployment of innovative solutions like GETs.

20 At the state level, Georgia Power is also pursuing state-administered funding opportunities.
21 For example, the Company applied for funding through the Grid Resilience grant program
22 administered by the Georgia Environmental Finance Authority (GEFA). If selected for
23 funding through this program, Georgia Power's proposal will be subject to further review
24 and negotiations with the DOE. The Company will continue to seek funding opportunities
25 to minimize costs to customers as part of the commitment to provide clean, safe, reliable,
26 and affordable electric service.

1 **VII. WHOLESALE TO RETAIL CAPACITY**

2 **Q. WHY IS THE COMPANY OFFERING WHOLESALE CAPACITY TO RETAIL**
3 **CUSTOMERS?**

4 A. The Commission's July 30, 2008, Order in Docket No. 26550 required Georgia Power to
5 offer certain wholesale capacity blocks to the retail jurisdiction on then-current wholesale
6 market terms (the "Wholesale Action Plan"). Previous wholesale capacity blocks were
7 offered under this arrangement and accepted or rejected by the Commission. However, in
8 its July 21, 2022 Order in Docket No. 44160, the Commission determined that the
9 Company had fulfilled the requirements of Docket No. 26550 and was no longer required
10 to offer wholesale capacity to retail jurisdictions. The Commission further acknowledged
11 that the Company could, at its discretion, offer wholesale capacity back to the retail
12 jurisdiction.

13 Since the 2022 IRP, the Company's load forecast and corresponding capacity needs have
14 changed, as have its plans for continued operations for Plant Scherer Unit 3. Therefore, the
15 wholesale capacity offer proposed in this 2025 IRP will help fulfill a portion of the
16 Company's capacity needs in the near term, and the proposed offer is consistent with the
17 mandates of the Wholesale Action Plan.

18 **Q. PLEASE DESCRIBE THE WHOLESALE CAPACITY OFFER INCLUDED IN**
19 **THE 2025 IRP.**

20 A. Georgia Power seeks to certify approximately 187 MW of capacity from Plant Scherer
21 Unit 3 offered in four wholesale blocks pursuant to the terms and conditions offered in this
22 filing. This capacity is made available to the retail jurisdiction pursuant to the Wholesale
23 Action Plan, though the Company has previously met all requirements. The Wholesale
24 Action Plan provided that certain wholesale capacity blocks would be offered to the retail
25 jurisdiction (1) on terms equivalent to that which the Company could obtain in the then-
26 current wholesale market, (2) in a manner that would not adversely affect the Company's

1 ability to continue to sell such resources into the wholesale market, and (3) in a manner
2 that the RFP process is not adversely affected.

3 **Q. HOW MUCH OF THE AVAILABLE WHOLESALE CAPACITY TO RETAIL IS**
4 **THE COMPANY OFFERING IN THIS IRP?**

5 A. Georgia Power's offer of approximately 187 MW of wholesale capacity is consistent with
6 the mandates of the Commission-approved Wholesale Action Plan. The initial offer of
7 52 MW is a partial block offer available January 1, 2026. An additional approximate
8 55 MW will become available January 1, 2030, followed by another approximate 55 MW
9 on January 1, 2031, and a final approximate 25 MW on June 1, 2031.

10 Additional information on the Company's Wholesale to Retail offer can be found in
11 Technical Appendix Volume 1.

12 **Q. HOW DOES GEORGIA POWER VALUE OR PRICE THE CAPACITY BEING**
13 **OFFERED TO RETAIL JURISDICTION?**

14 A. Consistent with prior wholesale offers, Georgia Power proposes to use the Commission-
15 approved application of a Market Differential Adjustment ("MDA") to meet the
16 requirement that the transaction be offered at then-current wholesale market terms. The
17 MDA represents the difference between the levelized market value and the levelized
18 revenue requirement of the net asset over its remaining useful life, expressed on a dollar
19 per kilowatt-month basis.

20 **Q. IS THE COMPANY ALSO SEEKING TO CERTIFY THIS CAPACITY AND**
21 **INCLUDE IT IN RATE BASE?**

22 A. Yes. If the Commission accepts the Company's offer of 187 MW of wholesale capacity,
23 Georgia Power also asks that it be certified. If certified, this offer provides for the entirety
24 of the accepted wholesale capacity to be brought into the retail cost of service.

25 The assets would be placed in retail rate base at their current book value, accompanied by
26 an MDA. To ensure the proper allocation of the MDA to the retail jurisdiction, the MDA

1 will be treated as an adjustment to retail base revenues available for regulatory purposes,
2 thereby resulting in an adjustment in retail base revenue requirements. As with other
3 generating assets in retail rate base, all prudently incurred actual fuel costs associated with
4 the resources will be recovered through the Fuel Cost Recovery process.

5 **Q. WHAT VALUE WILL PROCURING THESE 187 MW BRING TO CUSTOMERS?**

6 A. These 187 MW provide a reliable source of capacity and energy from existing resources
7 for Georgia Power customers at a cost-effective market price during a time of capacity
8 need. This will also avoid the need to invest in new site or transmission construction
9 projects.

10 **VIII. CONCLUSION**

11 **Q. WHAT IS GEORGIA POWER REQUESTING OF THE COMMISSION IN THE**
12 **2025 IRP?**

13 A. The Company seeks approval of its 2025 IRP as proposed, including the associated specific
14 requests listed in the Executive Summary of the Main Document, which includes actions
15 necessary for the Company to continue to provide clean, safe, reliable, and affordable
16 electric service for its retail customers.

17 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

18 A. Yes.

STATE OF GEORGIA

**BEFORE THE
GEORGIA PUBLIC SERVICE COMMISSION**

In Re:

Georgia Power Company's)	Docket No. 56002
2025 Integrated Resource Plan)	

Georgia Power Company's)	Docket No. 56003
2025 Application for the Certification,)	
Decertification, and Amended)	
Demand-Side Management Plan)	

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
4 for Georgia Power Company ("Georgia Power" or the "Company"). My business
5 address is 241 Ralph McGill Boulevard N.E., Atlanta, Georgia 30308.

6 A. My name is Robert W. ("Brett") Mitchell, III. I am the Director of the Coal
7 Combustion Residuals ("CCR") Program Management Office for Georgia Power.
8 My business address is 241 Ralph McGill Boulevard N.E., Atlanta, Georgia 30308.

9 **Q. MS. MCNELLY, PLEASE SUMMARIZE YOUR EDUCATION AND**
10 **PROFESSIONAL EXPERIENCE.**

11 A. I graduated from the University of Alabama with a Bachelor of Science in Chemical
12 Engineering. I also completed a Master of Business Administration degree from the
13 University of Alabama at Birmingham.

14 I have worked in a variety of roles within the Southern Company footprint since
15 beginning my career in 2001 as a cooperative education student with Southern

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_x") and
13 sulfur dioxide ("SO₂") 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 ("CO₂") 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.

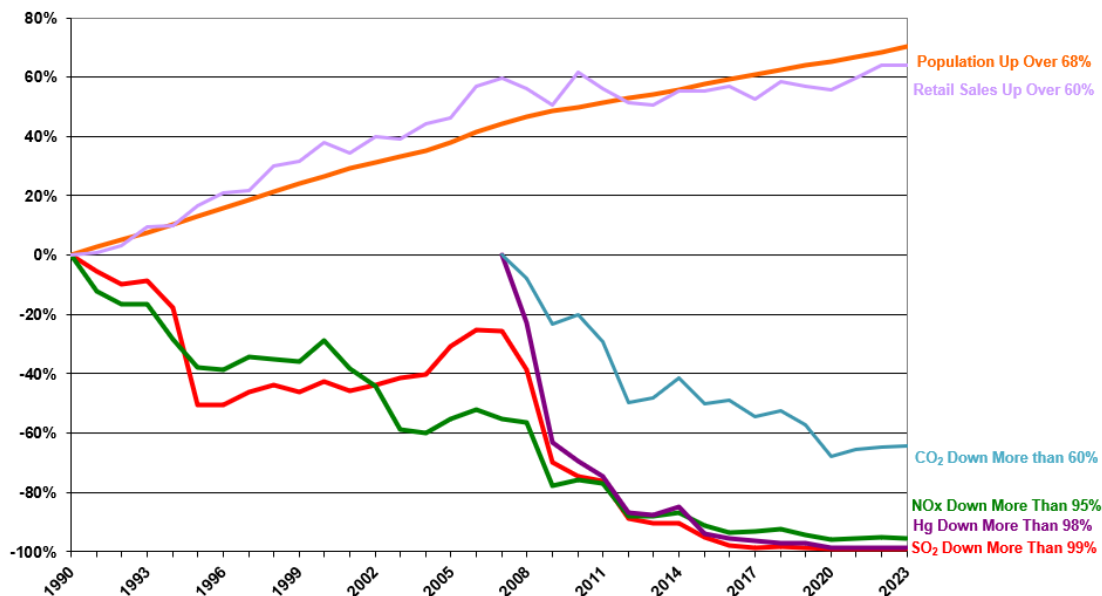


FIGURE 1 – Georgia Power Emission Trends

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 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.

STATE OF GEORGIA

**BEFORE THE
GEORGIA PUBLIC SERVICE COMMISSION**

In Re:

Georgia Power Company's)	Docket No. 56002
2025 Integrated Resource Plan)	

Georgia Power Company's)	Docket No. 56003
2025 Application for the Certification,)	
Decertification, and Amended)	
Demand-Side Management Plan)	

DIRECT TESTIMONY OF

DR. ROSS BEPPLER, CARLEY GOFF, A. WILSON MALLARD,

AND ANDY PHILLIPS

FEBRUARY 28, 2025

1 A. My name is Richard Anthony (“Andy”) Phillips. I am the Profitability and
2 Economic Analysis Manager for SCS. My business address is 241 Ralph McGill
3 Boulevard, N.E., Atlanta, Georgia 30308.

4 **Q. DR. BEPLER, PLEASE SUMMARIZE YOUR EDUCATION AND**
5 **PROFESSIONAL EXPERIENCE.**

6 A. I began my academic studies at Clemson University, earning a Bachelor of Science
7 in Electrical Engineering in 2014. Following this, I pursued a PhD in Energy and
8 Environmental Policy from the Georgia Institute of Technology, which I completed
9 in 2019. During my doctoral studies, I gained experience interning at the National
10 Renewable Energy Laboratory, and at the Georgia Public Service Commission
11 (“Commission”). From March 2018 to December 2019, I worked as a Quantitative
12 Analyst with Demand Side Analytics, where I focused on data-driven insights on
13 demand-side programs and technologies.

14 In 2019, I joined SCS as an analyst in the Planning and Regulatory Support
15 organization. In 2022, I advanced to the role of Demand Analysis Manager. As of
16 January 2024, I serve as the Load Flexibility and Analysis Manager, where I am
17 responsible for design and evaluation of load flexibility programs and
18 complimentary economic analysis.

19 **Q. DR. BEPLER, HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE**
20 **COMMISSION?**

21 A. No.

22 **Q. MS. GOFF, PLEASE SUMMARIZE YOUR EDUCATION AND**
23 **PROFESSIONAL EXPERIENCE.**

24 A. I began my career in the energy sector after earning a Bachelor of Science in
25 Finance from the University of Georgia in 2005. Shortly thereafter, I joined SCS as
26 a Financial Analyst, where I worked from 2005 to 2007. In 2007, I transitioned to

1 Georgia Power, serving as a Profitability and Economic Analyst while pursuing my
2 MBA from Emory University, which I completed in 2010.

3 Following my MBA, I continued at Georgia Power as a Financial Analyst from
4 2010 to 2012. I then advanced to the role of Metro East Region Financial
5 Comptroller, a position I held until 2014. My career path then led me to become
6 the Sales Manager for Outdoor Lighting from 2014 to 2015, followed by my role
7 as Resource Management and Budget Manager from 2015 to 2018.

8 From 2018 to 2020, I served as the Assistant to the Executive Vice President, Chief
9 Financial Officer, and Treasurer of Georgia Power. I then took on the role of
10 Environmental Affairs Project Controls Manager from 2020 to 2024. Currently, I
11 am the Director of Demand Planning and Analysis at Southern Company, a position
12 I have held since April 2024.

13 **Q. MS. GOFF, HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE**
14 **COMMISSION?**

15 A. No.

16 **Q. MR. MALLARD, PLEASE SUMMARIZE YOUR EDUCATION AND**
17 **PROFESSIONAL EXPERIENCE.**

18 A. I have a Bachelor of Arts degree in Geography from the University of Georgia and
19 an MBA degree from Mercer University. I began my career with Georgia Power in
20 1997 and have held various positions in Retail Sales and Service, Pricing and Rates,
21 Energy Efficiency, Renewable Development, and Marketing. I served as the first
22 manager of the Company's Green Energy Program, and I helped create the
23 Renewable Development organization in 2013. From 2013 until 2016, I was the
24 Renewable Energy Planning Manager with primary responsibility for renewable
25 energy strategy and program development for both Georgia Power's renewable
26 energy procurement plans and customer solar programs. I managed and oversaw
27 the team responsible for all aspects of analysis, compliance, reporting, and

1 communication related to the Company's renewable energy initiatives.
2 Immediately prior to my current role, I served as Assistant to the Senior Vice
3 President of Marketing for Georgia Power, where I provided oversight and
4 assistance for all of Georgia Power's marketing, energy efficiency, energy services,
5 sales, pricing, and planning activities.

6 Currently, I serve as the Director of Renewable Development for Georgia Power.
7 In this role, I lead the development of renewable strategy and policy for Georgia
8 Power Company, and am responsible for compliance in the administration of
9 renewable programs and procurements.

10 **Q. MR. MALLARD, HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE**
11 **COMMISSION?**

12 A. Yes. I testified in Docket No. 44160, Georgia Power Company's 2022 Integrated
13 Resource Plan ("IRP"); Docket No. 43814, Georgia Power's Application for the
14 Certification of the 2022/2023 Utility Scale Renewable Power Purchase
15 Agreements ("PPAs"); Docket Nos. 4822, 16573, and 19279, the Commission's
16 Review of Georgia Power's PURPA Avoided Cost Methodology; Docket No.
17 42625, Georgia Power's Application for the Certification of the 2020/2021 REDI
18 Utility Scale PPAs; Docket No. 41596, Georgia Power's Application for the
19 Certification of the 2018/2019 REDI Utility Scale PPAs; and Docket No. 41734,
20 Georgia Power's Application for the Certification of the 2018/2019 REDI Utility
21 Scale PPAs for the Commercial and Industrial ("C&I") Program.

22 **Q. MR. PHILLIPS, PLEASE SUMMARIZE YOUR EDUCATION AND**
23 **PROFESSIONAL EXPERIENCE.**

24 A. I graduated in 1996 from the Georgia Institute of Technology with a Bachelor of
25 Science degree in Electrical Engineering. I also attended Emory University's
26 Goizueta Business School, where I graduated with a Master of Business
27 Administration ("MBA") in 2002. I began my career at Georgia Power in 1991 as

1 part of the Co-Operative Education Program. Since 1997, I have held several roles
2 with increasing responsibility in a variety of organizations including Distribution,
3 Customer Service, Sales, and Planning and Pricing. I managed the Company's
4 customer satisfaction programs from 2009 to 2012, served as a Key Accounts Team
5 Manager from 2012 to 2017, and managed four teams within the Sales Organization
6 as the Sales Support Manager from 2017 to 2018. In addition, I managed Georgia
7 Power's electrical transportation programs while serving as the Electrification
8 Manager from 2018 to 2019. I assumed my current role as the Profitability &
9 Economic Analysis Manager in 2019, where I am responsible for leading the
10 economic analysis in support of Georgia Power's energy efficiency programs.

11 **Q. MR. PHILLIPS, HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE**
12 **COMMISSION?**

13 A. Yes. I testified in Docket No. 44160, Georgia Power Company's 2022 IRP.

14 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

15 A. Our testimony supports the Company's 2025 IRP and 2025 Application for the
16 Certification, Decertification and Amended Demand Side Management Plan
17 ("DSM Application") filed on January 31, 2025. We adopt the 2025 IRP and DSM
18 Application as part of our testimony.

19 **Q. PLEASE SUMMARIZE THE TESTIMONY OF THE PANEL.**

20 A. The Company's Demand Side Management ("DSM") plan was developed in
21 accordance with the Commission-approved DSM Program Planning Approach, per
22 Commission orders, and in collaboration with the DSM Working Group
23 ("DSMWG"). The Company developed four DSM cases in this case: the Proposed
24 Case, the DSMWG Advocacy Case, the Supply-Side Case, and the Capacity and
25 Affordability Case. The Company supports the adoption of the Proposed Case,
26 which includes a DSM savings target of at least 0.75% of annual retail sales as
27 required by the Commission's Order Adopting Stipulation in the Vogtle Prudency

1 Proceeding in Docket No. 29849 (“Vogtle Prudence Order”). Each of the other
2 three cases were developed to evaluate the potential for varying levels of DSM
3 investment and their impacts. The Company evaluated the cost effectiveness of
4 these cases considering the impacts of the 111 Greenhouse Gas (“GHG”) Rules by
5 analyzing the economics within the moderate-gas, lower carbon pressure (“MG0”)
6 and moderate gas, zero-dollar carbon with 111 GHG Rules (“111-MG0”) scenarios.

7 In support of its Proposed Case, the Company is seeking Commission approval for
8 its DSM Action Plan, including (i) approval for a certificate of public convenience
9 and necessity for one new residential DSM program, (ii) decertification of three
10 previously certified DSM programs, (iii) amended certificates for four previously
11 certified DSM programs, (iv) a waiver of the TRC requirement for four previously
12 certified DSM programs, and (v) updated program economics for all other
13 previously certified DSM programs. Approval of these DSM programs is projected
14 to result in, on average, approximately 224 megawatts (“MW”) of peak demand
15 reduction and 741 gigawatt hours (“GWh”) of energy reductions annually for
16 2026–2028. Although the economics of these programs are complicated, the
17 Company continues to support offering DSM programs that minimize upward
18 pressure on rates and maximize economic efficiency, especially as those programs
19 contribute to high customer satisfaction.

20 Regarding DSM pilot programs and initiatives, the Company has launched seven
21 residential pilot initiatives and six commercial pilots since the 2022 IRP. These
22 programs inform future energy efficiency program design, and the Company seeks
23 approval of a total of \$3 million to continue these pilot studies as part of its DSM
24 Action Plan. The Company is also requesting modifications to the additional sum
25 methodology for these DSM programs, which will be simpler and likely more stable
26 than the existing methodology.

27 Based on recent experience and customer feedback, the Company is proposing
28 enhancements to its Utility Scale and Distributed Generation (“DG”) renewable
29 procurement processes. For both the Utility Scale and DG requests for proposals

1 (“RFP”), the Company proposes new processes such as a submission refresh
2 process to allow RFP participants the option to “buy down” the total cost of their
3 submission, as well as offering extended RFP periods, which will maximize
4 opportunities for project selection and procurement to meet customer renewable
5 subscription needs. For Utility Scale RFPs specifically, the Company proposes
6 adding flexible Required Commercial Operation Dates (“RCOD”) and will
7 continue to consider the use of operational tools and flexibility as solutions to
8 support interconnection viability for projects. For DG RFPs, the Company proposes
9 to make the energy procured through these RFPs available for subscription and
10 seeks to include solar resources coupled with dispatchable storage as part of the
11 procurement process. The Company also proposes to incorporate locational value
12 to DG resources evaluated during Georgia Power’s DG RFPs. With these
13 enhancements, the Company is seeking to procure energy from up to 4,000 MW of
14 new renewable resources by 2035, beginning with 1,000 MW from Utility Scale
15 Resources through an RFP in 2026, and 100 MW from DG resources.

16 The Company is making several proposals related to its renewable and resiliency
17 customer programs. For the Clean and Renewable Energy Subscription (“CARES”)
18 Utility Scale program, the Company proposes refinements to its Notice of Intent
19 (“NOI”) process, adding greater flexibility, and modifying its pricing methodology
20 to reduce financial risks to non-participating customers. The Company also seeks
21 to expand the CARES program to offer subscriptions to DG resources that are
22 procured through Georgia Power’s DG RFPs.

23 The Company seeks approval of the new Customer-Sited Solar Plus Storage Pilot
24 Program, which will enhance options for customers interested in installing
25 renewable resources at their premises. The Company also seeks to modify the
26 existing Customer Connected Solar Program to add storage resources, increase the
27 size of eligible facilities, and allow customers without billing history to participate.

28 The Distributed Energy Resource (“DER”) Customer Pilot, DER Colocation
29 Program, and DER Customer-Owned Program were all previously approved and

1 are an important component of the Company's customer program portfolio. The
2 Company is seeking to modify the DER Customer-Owned Program to allow
3 contract terms up to 15 years. Otherwise, the Company is working closely with
4 customers to move forward with projects in these programs and on its DER tariffs.
5 In this 2025 IRP, the Company is proposing the Large Customer Owned Resiliency
6 ("LCOR") Program, which is aimed at transmission-connected C&I customers.
7 This program allows participants to retain ownership of their DER assets while
8 providing Georgia Power with operational certainty that the assets will respond
9 when called upon.

10 Finally, the Company is proposing a new Vehicle-to-Grid ("V2G") pilot program,
11 which would enable electric buses at four school customer locations to transfer
12 energy stored in their batteries back to the grid. By implementing this pilot program,
13 the Company hopes to gain a better understanding of the costs associated with
14 managing and administering this type of technology and the capabilities and value
15 this technology provides to the Georgia Power electric system ("System").

16 **Q. HOW IS YOUR TESTIMONY ORGANIZED?**

17 A. The remainder of our testimony is organized as follows:

- 18 • Section II discusses the Company's Demand Side Strategy.
- 19 • Section III discusses enhancements to Georgia Power's Renewable
20 Procurement Strategy.
- 21 • Section IV discusses the Company's Renewable and Resiliency Customer
22 Programs, which includes a discussion about each of the following:
 - 23 ○ Modifications to the CARES program.
 - 24 ○ Customer Sited Renewable Offerings.
 - 25 ○ Customer Sited Resiliency Programs, including Georgia Power's
26 DER Programs.
 - 27 ○ Vehicle to Everything Pilot.

1 thorough evaluation and stakeholder engagement. The Company retained third-
2 party consultants to assist with the planning, implementation, and evaluation of the
3 DSM programs certified in the 2022 IRP Order. The Company completed and filed
4 the Achievable Energy Efficiency Potential Assessment in January 2024 (with a
5 subsequent Errata filing in November 2024) in the 2023 Demand Side Management
6 Working Group docket, Docket No. 45051.

7 The Company continues to follow the Commission's economic screening policy
8 outlined in the 2004 IRP Final Order in Docket No. 17687, which directs that the
9 proposed DSM plans minimize upward pressure on rates and maximize economic
10 efficiency. The Company evaluates the impact of its DSM programs on rates
11 through the Rate Impact Measure ("RIM") test and determines the economic
12 efficiency of its DSM programs using the Total Resource Cost ("TRC") test. As
13 demonstrated through the Company's planning processes, DSM is treated as a
14 priority resource and reduces the Company's energy and demand forecast before
15 supply-side alternatives are considered.

16 Georgia Power collaborated with the DSMWG to develop, discuss, and refine DSM
17 program concepts for the 2025 IRP. The DSMWG provided feedback on program
18 design, economic modeling, and customer outreach strategies. The Company
19 engaged with the larger DSMWG eight times since 2022 to discuss proposed
20 program modifications and new initiatives, as well as a subset of the DSMWG to
21 specifically work through program ideation. This process ensured broad
22 stakeholder input in the DSM program development process.

23 Georgia Power's DSM plan also incorporates findings from recent program
24 evaluations, updates to measure impacts, and economic analyses using the TRC and
25 RIM tests. The DSM Program plans have also been informed by developments
26 since the 2023 IRP Update, including the issuance of the Vogtle Prudence Order
27 and an increase in the marginal cost of generating energy. The DSM Program plans
28 included in the DSM Application represent a well-balanced portfolio of residential

1 and commercial DSM programs that are structured to help customers reduce and
2 better manage their energy usage.

3 **Q. DOES THE PLANNING PROCESS THAT THE COMPANY USED TO**
4 **DEVELOP THE PROGRAMS SATISFY THE COMMISSION'S DSM**
5 **EVALUATION RULE?**

6 A. Yes. Georgia Power's planning process adheres to the Commission's DSM
7 evaluation rule. The process included stakeholder engagement, adherence to the
8 DSM Program Planning Approach, and economic screening that aligns with
9 Commission standards. The DSM portfolio was developed through a rigorous
10 assessment of market potential, cost-effectiveness testing, and alignment with
11 regulatory expectations. Completion of the DSM Program Planning Approach,
12 including the filing of the Achievable Energy Efficiency Potentials Assessment,
13 satisfies the requirements of the Commission's DSM Evaluation Rule.

14 **Q. HOW WERE THE PROGRAMS CERTIFIED BY THE COMMISSION IN**
15 **THE 2022 DSM APPLICATION AND THE 2023 IRP UPDATE**
16 **EVALUATED?**

17 A. Georgia Power engaged third-party consultants to assess program performance for
18 both the 2022 DSM programs and those modified in the 2023 IRP Update.
19 Evaluations focused on energy savings, cost-effectiveness, and market impact. The
20 findings informed the program adjustments proposed in the 2025 IRP.

21 **Q. DID THE COMPANY CONSIDER THE POTENTIAL IMPACT OF THE**
22 **SECTION 111 GREEN HOUSE GAS RULES WITH RESPECT TO ITS**
23 **DSM ECONOMIC ANALYSIS?**

24 A. Yes, the Company's DSM program economic analysis includes an evaluation of
25 the MG0 and 111-MG0 scenarios.

1 **Development of the DSM Cases**

2 **Q. HOW DID THE VOGTLE PRUDENCE ORDER INFLUENCE THE**
3 **DEVELOPMENT OF THE DSM PROPOSED CASE IN THIS IRP?**

4 A. In developing the Company's Proposed Case, Georgia Power established the
5 energy savings target in compliance with the Vogtle Prudence Order, which
6 required Georgia Power to propose a DSM performance savings target of at least
7 0.75% of annual retail sales. Consistent with the composition of the Company's
8 current DSM portfolio, these savings were calculated to come from the residential
9 and commercial customer classes only.

10 **Q. DOES THE COMPANY SUPPORT THE PROPOSED CASE?**

11 A. Yes. As explained previously, the Proposed Case provides a comprehensive
12 portfolio of energy efficiency and demand response programs, pilots, and other
13 DSM initiatives prepared through the Commission's DSM Program Planning
14 Approach, consistent the Commission's policy of minimizing upward pressure on
15 rates and maximizing economic efficiency, in compliance with prior Commission
16 orders.

17 **Q. WHAT IS THE CAPACITY AND AFFORDABILITY CASE?**

18 A. The Capacity and Affordability case is a sensitivity developed for informational
19 purposes. Although the Proposed Case provides substantial energy savings, those
20 savings come at an increased cost to customers, the majority of whom do not
21 participate or receive savings from the DSM portfolio. The Company continues to
22 see value in DSM as a priority resource and presents the Capacity and Affordability
23 Case so the Commission can consider how to best balance energy savings and
24 customer rate impacts.

1 **Q. PLEASE DESCRIBE EACH OF THE DSM CASES PRESENTED IN THIS**
2 **IRP.**

3 A. Georgia Power analyzed the following four DSM cases to evaluate the potential for
4 varying levels of DSM investment and their associated impacts, including cost-
5 effectiveness:

- 6 • **Proposed Case:** The Proposed Case adopts the 0.75% of annual retail sales
7 savings target established by the Vogtle Prudence Order. The demand response
8 and energy efficiency programs included in the Proposed Case are projected to
9 achieve approximately -\$16 to \$3 million in annual net TRC benefits while
10 putting upward pressure on rates of approximately \$630 to \$746 million
11 annually under the MG0 economic scenario. For the 111-MG0 economic
12 scenario, the Proposed Case is projected to achieve approximately -\$3 to \$24
13 million in annual net TRC benefits while putting upward pressure on rates of
14 approximately \$609 to \$733 million annually over years 2026, 2027, and 2028.
- 15 • **DSMWG Advocacy Case:** Based on requests made by certain members of the
16 DSMWG, the DSMWG Advocacy Case was developed as a sensitivity to the
17 Proposed Case. The DSMWG Advocacy Case is similar to the Proposed Case
18 but includes an industrial program. The implementation of the DSMWG
19 Advocacy Case would achieve approximately -\$12 to \$8 million in annual net
20 TRC benefits while putting upward pressure on rates of approximately \$641 to
21 \$761 million annually under the MG0 economic scenario and achieve
22 approximately \$1 to \$29 million in annual net TRC benefits while putting
23 upward pressure on rates of approximately \$620 to \$748 million annually under
24 the 111-MG0 economic scenario for years 2026–2028. The Company does not
25 support the inclusion of an industrial DSM program because the Company’s
26 experience has shown that industrial customers generally adopt DSM and
27 energy efficiency measures on their own, without the need for customer-funded
28 incentive programs. As such, the Company does not recommend this case and

1 presents the results of the DSMWG Advocacy Case for informational purposes
2 only.

- 3 • **Supply-Side Case:** As agreed to in the 2022 IRP Stipulation and approved by
4 the Commission, the Supply-Side Case modeled DSM programs alongside
5 supply-side resources to identify the most cost-effective combination of supply-
6 side resources and DSM programs. The Supply-Side Case replaces the
7 previously used Aggressive Case in the DSM Program Planning Process for the
8 2025 IRP. The supply side modeling system, Aurora, evaluates resources on a
9 relative net present value basis, so traditional DSM cost-effectiveness tests are
10 not applicable. Under the 111-MG0 economic scenario, the Supply-Side Case
11 yielded the highest annual costs in the years 2026–2028 of any of the four DSM
12 cases. In addition, the MG0 scenario selected no income-qualified programs for
13 the years 2026–2028. The Company does not recommend adoption of the
14 Supply-Side Case.

- 15 • **Capacity and Affordability Case:** The Capacity and Affordability Case was
16 developed in light of the significant upward pressure on rates resulting from the
17 Proposed Case, and attempts to substantially mitigate the upward pressure on
18 rates associated with the Proposed Case. The Capacity and Affordability Case
19 strikes a balance between customer affordability concerns, capacity constraints,
20 and the value of energy efficiency programs. This case achieves approximately
21 \$80 to \$92 million annually in net TRC benefits from 2026–2028 while putting
22 upward pressure on rates of approximately \$162 to \$211 million annually under
23 the MG0 economic scenario. Under the 111-MG0 scenario, the Capacity and
24 Affordability Case achieves approximately \$84 to \$100 million annually in net
25 TRC benefits while putting upward pressure on rates of approximately \$154 to
26 \$206 million annually from 2026–2028.

1 **Q. WHAT SPECIFIC APPROVAL IS THE COMPANY SEEKING IN THIS**
2 **CASE?**

3 A. Georgia Power seeks Commission approval of the Company's DSM Action Plan
4 for the Proposed Case, which includes (i) approval for a certificate of public
5 convenience and necessity for one new residential DSM program,
6 (ii) decertification of three previously certified DSM programs, (iii) amended
7 certificates for four previously certified DSM programs, (iv) a waiver of the TRC
8 requirement for four previously certified DSM programs, and (v) updated program
9 economics for all other previously certified DSM programs. Further, the Company
10 requests modifications to the additional sum methodology and approval to continue
11 other DSM activities like the Learning Power Education and Energy Efficiency
12 Awareness initiatives and pilot studies.

13 **The DSM Programs**

14 **Q. PLEASE DESCRIBE THE NEW RESIDENTIAL PRODUCTS PROGRAM**
15 **THAT THE COMPANY SEEKS TO CERTIFY.**

16 A. The Residential Products Program is designed to incentivize customers to adopt
17 high-efficiency appliances, electronics, and home energy upgrades by providing
18 rebates for ENERGY STAR-certified HVAC systems, smart thermostats, water
19 heating, and other technologies. The program integrates customer education
20 initiatives to promote long-term efficiency improvements. A key aspect of the
21 Products program is for the customer to achieve energy and demand savings
22 through the installation of energy-efficient measures. Participating customers have
23 multiple channels to access discounts, rebates, and other incentives to purchase
24 energy efficient products that bring additional energy and demand savings to their
25 home.

1 **Q. PLEASE EXPLAIN WHY THE COMPANY SEEKS TO DECERTIFY THE**
2 **RESIDENTIAL REFRIGERATOR RECYCLING PLUS PROGRAM.**

3 A. The Company seeks to decertify the Residential Refrigerator Recycling Plus
4 Program due to several key factors limiting its effectiveness and efficiency. As
5 newer appliances are and have been designed to be more energy-efficient and have
6 entered the marketplace over the last three decades, the potential energy savings
7 from recycling such appliances have become significantly lower than in years past.
8 Additionally, the costs associated with recycling appliances like refrigerators and
9 freezers have increased. This imbalance between decreasing savings and rising
10 costs makes the program less cost-effective. There are also fewer appliance
11 recycling vendors available in the market, complicating the implementation and
12 operation of the recycling program as designed and further reducing its feasibility.

13 Given these considerations, continuing the Residential Refrigerator Recycling Plus
14 Program is no longer practical. The Company aims to reallocate these resources to
15 other programs that can deliver greater energy savings and benefits to our
16 customers.

17 **Q. PLEASE EXPLAIN WHY THE COMPANY SEEKS TO DECERTIFY THE**
18 **RESIDENTIAL SPECIALTY LIGHTING PROGRAM.**

19 A. The Company proposes to decertify the Residential Specialty Lighting Program
20 due to significant changes in the market and regulatory landscape. Over the last
21 several years, there has been a substantial shift towards the widespread availability
22 of residential energy-efficient lighting options, largely driven by market
23 transformation and enhanced federal regulations. Together, these have made
24 energy-efficient lighting products more accessible to consumers.

25 As a result, the need for incentivizing such lighting measures through designated
26 programs has diminished. The energy savings that were once achieved through the
27 program are no longer as significant because consumers can now easily obtain these

1 energy-efficient lighting without additional incentives. Consequently, continuing
2 to support this program is not cost-effective for the Company. By reallocating
3 resources from this program, the Company can focus on other initiatives that offer
4 greater energy savings and benefits to customers.

5 **Q. PLEASE EXPLAIN WHY THE COMPANY SEEKS TO DECERTIFY THE**
6 **COMMERCIAL BEHAVIORAL PROGRAM.**

7 A. The Company requests the decertification of the Commercial Behavioral Program
8 based on findings from a third-party evaluation that the program was not cost-
9 effective. Per the 2022 IRP Order based on program evaluation findings, the
10 Company suspended the implementation of the Commercial Behavioral Program
11 in 2025, pending decertification.

12 **Q. PLEASE DESCRIBE WHY THE COMPANY SEEKS A WAIVER OF**
13 **COMMISSION RULE 515-3-4-.04(4)(A)(3) FOR ONE COMMERCIAL AND**
14 **THREE RESIDENTIAL PROGRAMS.**

15 A. Commission Rule 515-3-4-.04(4)(a)(3) requires that demand-side programs pass
16 the TRC test. The Commercial Custom Program, Residential Home Energy
17 Improvement Program, Residential Energy Assistance for Savings and Efficiency
18 Program, and the Residential Hopeworks Program have demonstrated high
19 customer satisfaction and market potential for energy savings. However, each of
20 these four programs do not reflect positive TRC results for the 2025 IRP cycle due
21 to the costs required to achieve the large energy savings goal represented in the
22 Proposed Case. Therefore, to continue offering these programs to customers as part
23 of the Company's proposed DSM plan, Georgia Power requests a waiver of
24 Commission Rule 515-3-4-.04(4)(a)(3) for these four programs.

1 **Q. FOR WHICH PROGRAMS IS THE COMPANY REQUESTING**
2 **AMENDMENTS TO THE PROGRAM CERTIFICATES?**

3 A. The Company seeks to amend the certificate for each of the four programs for
4 which the Company is seeking a waiver of the TRC requirement. In addition, the
5 Company seeks to amend the program certificates for the Residential Behavioral
6 Program, the Residential Demand Response Program, the Commercial Prescriptive
7 Program, and the Small Commercial Direct Install Program.

8 **Evaluation and Impact of DSM Programs**

9 **Q. WHAT ARE THE EXPECTED IMPACTS OF THE COMPANY'S**
10 **PORTFOLIO OF PROPOSED DSM PROGRAMS ON PEAK DEMAND**
11 **AND ENERGY USAGE?**

12 A. The Company projects that its proposed energy efficiency programs will result, on
13 average, in approximately 224 MW of peak demand reduction and 741 GWh of
14 energy reductions annually for 2026–2028, based on the planned implementation
15 levels.

16 **Q. HOW WILL GEORGIA POWER MEASURE THE SUCCESS OF THESE**
17 **DSM PROGRAMS?**

18 A. The Company will track program performance and progress toward achieving
19 established goals on an ongoing basis. Through a RFP solicitation, Georgia Power
20 will contract with independent, third-party evaluators to conduct comprehensive
21 program evaluations at regular intervals (initially planned for three-year intervals).
22 The evaluations will include market, process, and impact evaluations to review the
23 program's operations, evaluate the program's impact on the local market, and verify
24 the energy and demand savings produced by the program. The Company will begin
25 implementing evaluation results and applying deemed savings to the new program
26 cycle beginning in January 2029 to be consistent with the Company's three-year
27 IRP and DSM planning cycles.

1 **Q. WHAT STEPS DID THE COMPANY TAKE TO BALANCE THE**
2 **INCREASED DSM SAVINGS TARGETS WITH COST-EFFECTIVENESS**
3 **CONSIDERATIONS?**

4 A. The Company performed TRC and RIM analyses to evaluate the cost-effectiveness
5 of various program designs. While some programs remained cost-effective, others
6 required modifications, and the Company is seeking decertification of a few
7 programs due to declining economic viability. The Company designed channels
8 within programs and grouped DSM offerings where possible to enable flexibility
9 and options for obtaining energy savings with minimal program costs.

10 **Q. HOW HAS THE INCREASED DSM SAVINGS TARGET AFFECTED THE**
11 **TRC AND RIM TEST RESULTS FOR THE PROPOSED DSM**
12 **PROGRAMS?**

13 A. The increased savings target has led to declining TRC test results and negative RIM
14 test results for several programs. Higher energy efficiency goals require additional
15 resources, including higher incentives, which increase program costs and impact
16 customer rates.

17 **Q. HOW DID THE COMPANY CONDUCT THE ECONOMIC SCREENING**
18 **FOR THE DSM PROGRAMS IN THE 2025 IRP?**

19 A. The Company continues to follow the Commission's economic screening policy
20 outlined in the 2004 IRP Order in Docket No. 17687. This policy requires the
21 Company to offer a DSM plan that minimizes upward pressure on rates and
22 maximizes economic efficiency. The Company screened each of the four DSM
23 planning cases against the MG0 and 111-MG0 scenarios.

1 **Q. HOW DOES THE COST-EFFECTIVENESS OF THE PROPOSED CASE**
2 **COMPARE TO THE PROPOSED CASE APPROVED IN THE 2022 IRP?**

3 A. Relative to the 2022 IRP economic test results, the TRC test results declined, and
4 RIM test results remain negative for the Company's proposed case. For
5 comparison, in the 2022 IRP, the Company's proposed case achieved
6 approximately \$90 to \$112 million in net TRC benefits, while putting upward
7 pressure on rates of approximately \$325 to \$334 million annually for years 2023–
8 2025.

9 **Q. WHAT IS THE PRIMARY CAUSE OF DECLINING DSM PROGRAM**
10 **ECONOMICS?**

11 A. Even though avoided energy costs have increased since the 2022 IRP, which has a
12 positive impact on energy efficiency economics, both TRC and RIM test results
13 have declined primarily due to the substantial resources and higher incentives
14 needed to achieve high energy savings in the Proposed Case. This trend in declining
15 economics continues to raise concerns for the Company as it strives to balance the
16 economic benefits that DSM programs provide to participating customers with the
17 rate impacts to all residential and commercial customers, whether they participate
18 in the programs or not. The Company plans to monitor program costs and
19 economics through 2028 and will be prepared to modify programs if significant
20 upward pressure on rates continues.

21 **Q. WHY IS THE COMPANY SEEKING APPROVAL TO CONTINUE DSM**
22 **PROGRAMS IF THEY ARE LESS ECONOMIC THAN THEY WERE**
23 **THREE YEARS AGO IN THE 2022 IRP?**

24 A. As stated previously, the Company continues to support offering a DSM plan that
25 minimizes upward pressure on rates and maximizes economic efficiency, consistent
26 with existing Commission policy. The Company used this same philosophy in
27 analyzing the slate of programs considered for certification in the 2022 DSM

1 Application and the 2023 IRP Update. As the net benefits from these programs
2 decline and the cost in terms of rate impact increases, it becomes more challenging
3 to maintain that balance.

4 Nevertheless, in light of DSM program benefits, the Company supports the
5 continuation of DSM as outlined in its DSM Action Plan. These programs are
6 designed to enhance energy efficiency and provide customers with more control
7 over their energy usage. In addition, these DSM programs contribute to high
8 customer satisfaction, and customers expect that the Company will continue
9 making these DSM programs available to them.

10 Building on the momentum from the 2022 IRP, Georgia Power continues to focus
11 on offering additional DSM options for income-qualified customers. The Company
12 is including additional measures, as well as measures for manufactured homes, in
13 its Energy Assistance for Savings and Efficiency (“EASE”) and HopeWorks
14 programs. The Company has also increased the energy savings carve out for
15 income-qualified participants in the Residential Behavioral Program to 33%.
16 Further, the Company has designed EASE to include moderate income customers,
17 who can also participate in the program and receive up to \$5,000 of free energy
18 efficiency improvements. Income level eligibility for these programs will be
19 developed during program implementation based on market best practices, and will
20 enable coordination with other energy efficiency programs, philanthropic groups,
21 and governmental programs.

22 **DSM Pilot Programs & Awareness Initiatives**

23 **Q. WHAT PILOT PROGRAMS WERE CONDUCTED SINCE THE 2022 IRP?**

24 **A.** Since the 2022 IRP, Georgia Power has launched seven residential pilot initiatives:

- 25 • Income Qualified Portal;
26 • Manufactured Homes;
27 • Phase Change Insulation;

- 1 • EV Managed Charging;
- 2 • All-in-One Heat Pump Washer Dryer;
- 3 • Sense Energy Efficiency; and
- 4 • the Equity Insights and Engagement Research pilot.

5 Additionally, the Company launched six commercial pilots:

- 6 • Energy Monitoring and Intelligence;
- 7 • Digital Twin Energy Management;
- 8 • IoT Building Management;
- 9 • Aeroseal Duct Insulation;
- 10 • Small Commercial Induction Cooking; and
- 11 • Small Commercial Direct Install Equity and Engagement Research pilot.

12 These pilots inform future energy efficiency program design with measurement and
13 verification of emerging technology and customer satisfaction. They directly
14 influence innovative DSM pilot and program delivery mechanisms. Some of these
15 pilots continue to focus on providing historically under-represented customers and
16 small and medium business customers access and participate in energy efficiency
17 programs. The Company seeks Commission approval to continue pursuing DSM
18 pilot studies as part of its DSM Action plan.

19 **Q. WHAT IS THE COMPANY’S REQUESTED BUDGET FOR DSM PILOT**
20 **STUDIES?**

21 A. The Company seeks Commission approval for \$1.5 million for residential and
22 \$1.5 million for commercial pilot studies annually, which is equal to the amounts
23 approved in the 2019 and 2022 IRPs.

1 **Q. IS THE COMPANY PROPOSING TO CONTINUE ITS ENERGY**
2 **EFFICIENCY AWARENESS INITIATIVES?**

3 A. Yes. The Company proposes to continue offering its energy efficiency awareness
4 initiatives to customers, which promote the benefits of energy efficiency and
5 educate customers about ways to save energy. Based on the continued success of
6 this program and the high customer satisfaction derived from these initiatives, the
7 Company has requested continued funding for these activities, consistent with what
8 the Commission approved in the 2022 IRP.

9 **Q. IS GEORGIA POWER PROPOSING TO CONTINUE ITS LEARNING**
10 **POWER INITIATIVE?**

11 A. Yes. The curriculum of the Learning Power Initiative promotes a grassroots
12 understanding of energy and energy efficiency, with lessons for grades pre-K
13 through 12. The program is highly interactive and hands-on, with lessons taught by
14 skilled Georgia Power Education Coordinators. Education Coordinators are
15 assigned a geographic region of the state, with an equitable distribution of students
16 and schools. Between 2011 and December 31, 2024, the Company delivered 42,124
17 Learning Power Education Initiative programs to over 1.3 million students in
18 Georgia. Based on the continued success of this program and the positive feedback
19 from educators, the Company has requested continued funding for these activities,
20 consistent with what the Commission approved in the 2022 IRP.

21 **Regulatory Treatment of DSM Program Costs and Additional Sum**

22 **Q. PLEASE DESCRIBE THE COMPANY'S REQUEST REGARDING DSM**
23 **COST APPROVAL.**

24 A. The Company is requesting Commission approval of the costs for all approved and
25 certified DSM programs, pilots, and other DSM activities. In addition, the
26 Company requests the continued collection of an additional sum. The budgets and
27 costs for the Company's DSM programs are set forth in Appendix C to the DSM

1 Application, and the additional sum amounts are set forth in Appendix F to the
2 DSM Application.

3 **Q. PLEASE DESCRIBE GEORGIA POWER’S ADDITIONAL SUM**
4 **REQUEST FOR THE PROPOSED CASE.**

5 A. As stated in the DSM Application, the Company requests an additional sum equal
6 to four cents for every kilowatt hour (“kWh”) saved using verified net energy
7 savings values applied to all certified DSM programs in the residential and
8 commercial DSM portfolios. Any authorized additional sum will be specific to the
9 corresponding customer class and will be collected through the residential and
10 commercial DSM tariffs. The additional sum included in the DSM tariffs will apply
11 the four cents per kWh saved to the total net energy savings estimated in the
12 Proposed Case.

13 **Q. WHY DOES THE COMPANY WANT TO CHANGE THE ADDITIONAL**
14 **SUM METHODOLOGY?**

15 A. The proposed additional sum methodology is simpler than the existing
16 methodology and likely to be more stable. The proposed change in methodology
17 also better aligns the additional sum with the energy savings achieved from the
18 customer classes eligible to participate in the Company’s residential and
19 commercial DSM programs. Further, the proposed methodology will value energy
20 savings from every program equally as opposed to the current methodology, where
21 Georgia Power receives little to no additional sum from residential DSM programs
22 that deliver kWh savings. The Company believes the proposed approach will also
23 help streamline the reporting process and provide additional clarity around the
24 annual DSM tariff true-up process.

1 **Q. IF THE COMPANY IS USING VERIFIED NET ENERGY SAVINGS IN ITS**
2 **CALCULATION OF THE ADDITIONAL SUM, ARE MARKET EFFECTS**
3 **ALREADY TAKEN INTO ACCOUNT?**

4 A. Yes. Market effects such as free-ridership and spillover are recognized in the
5 industry as important data points for evaluating DSM programs and deciding
6 whether to modify or continue DSM programs. Market effects are useful for
7 program evaluations and modifications, as well as future program design and
8 system planning.

9 **Q. HOW DOES THE COMPANY PROPOSE TO COLLECT DSM PROGRAM**
10 **COSTS AND THE PROPOSED ADDITIONAL SUM?**

11 A. Georgia Power proposes to collect the costs of approved and certified DSM
12 programs and activities, as well as the additional sum amount for certified DSM
13 programs, through the existing residential and commercial DSM tariffs. These
14 tariffs would be filed as part of the Company's next base rate case and would be
15 implemented with any approved change in rates thereafter.

16 **Q. WILL THE DSM TARIFFS BE TRUED UP?**

17 A. Yes. Consistent with current practice, the DSM tariffs will initially be based on
18 projected program costs and participation levels, and projected additional sum
19 values approved in the 2025 IRP and DSM Application. Subsequently, the DSM
20 tariffs should be trued-up annually based on actual program costs and participation
21 levels, and actual revenues collected using the true-up methodology agreed to by
22 the Company and Commission Staff.

1 **III. RENEWABLE PROCUREMENT AND PROGRAM STRATEGY**

2 **Renewable Procurement Strategy**

3 **Q. PLEASE DESCRIBE GEORGIA POWER’S NEED TO ENHANCE ITS**
4 **RENEWABLE PROCUREMENT PROCESSES.**

5 A. Georgia Power takes pride in the measured and disciplined approach it has taken
6 over the last decade to responsibly integrate additional renewable resources onto its
7 System for the benefit of all customers. Planning models indicate the continued
8 addition of economic renewable resources offers value to all customers across
9 multiple scenarios, and the actions of the Commission, the market, and the
10 Company have delivered economic renewable resources to the System.
11 Additionally, as the number of customers with sustainability goals increases, the
12 Company has adapted its renewable procurement strategies to evolve with changing
13 customer demand and the sustained interest in renewable subscription programs.

14 Through market interaction and recent RFP experience, the Company has identified
15 several challenges and opportunities that necessitate modifications to further
16 enhance its procurement processes. For example, changing interconnection
17 processes and requirements, impacts from regulatory uncertainty and policy
18 changes (tariffs, tax credits, grants, etc.), increasing scrutiny on land use, supply
19 chain issues, and a difference in the timelines of proposed renewable procurements
20 and transmission system improvements have all limited the Company’s ability to
21 meet its renewable RFP targets.

22 Further, the Company received feedback from market participants indicating a need
23 for additional flexibility to navigate changing regulatory policies and supply chain
24 dynamics, including modifications to RCODs. These market conditions, combined
25 with customer desires for subscriptions to incremental renewable resources, drive
26 the need for more flexibility in the Company’s RFP process, including
27 consideration of customer identified resources.

1 As a result of these challenges and the feedback received, Georgia Power's RFPs
2 must become more flexible and adaptable to capture the value that renewable
3 resources can offer to customers. To that end, the Company's proposed
4 enhancements apply these lessons learned and are aimed at improving the
5 efficiency and success of its renewable procurements.

6 **Q. PLEASE DESCRIBE THE COMPANY'S PROPOSED ENHANCEMENTS**
7 **TO THE RENEWABLE PROCUREMENT PROCESS.**

8 A. Georgia Power proposes to modify its renewable procurement strategy by
9 introducing several enhancements to its Utility Scale and DG RFPs. For both the
10 Utility Scale and DG RFPs, the Company will continue using a best-cost evaluation
11 methodology but will also introduce new processes such as (1) a submission refresh
12 option to "buy down" project cost and (2) an extended RFP period designed to
13 maximize opportunities for project selection and procurement to meet customer
14 needs.

15 In the Utility Scale RFP process, the Company proposes adding flexible RCOs,
16 allowing projects to have a wider range of acceptable in-service dates and enabling
17 RFP participants and the Company to navigate market challenges such as supply
18 chain disruptions and changing policy landscapes. Additionally, the Company will
19 continue to consider the use of Transmission System operational tools and
20 flexibility that support interconnection viability for projects and portfolios of
21 projects.

22 For DG RFPs, the Company proposes to make the energy procured available for
23 subscription and also seeks to include solar resources coupled with dispatchable
24 storage to deliver additional capacity value to benefit all customers. Finally, the
25 Company proposes to enhance its locational guidance to customers by updating the
26 RCB framework used in the DG evaluation process to assign value to projects based
27 on their geographic location. By incorporating locational value into the DG RFP
28 evaluation, the Company aims to incentivize strategic siting decisions of flexible,

1 dispatchable resources to better support the System when and where it is needed
2 most.

3 **Utility Scale RFPs**

4 **Q. WILL THE COMPANY CONTINUE TO USE THE BEST COST**
5 **METHODOLOGY IN ITS UTILITY SCALE RFP EVALUATIONS?**

6 A. Yes. As approved in the 2022 IRP Order, the Company's ongoing RFPs are
7 evaluated using the best-cost methodology, which enables procurement of
8 renewable resources at the best cost for Georgia Power customers. This approach
9 to the evaluation process considers all benefits delivered by proposals in relation to
10 multiple planning scenarios. This process provides more flexibility for the
11 Company, in conjunction with Staff and the Independent Evaluator, supporting a
12 selection process that is more likely to meet RFP procurement targets.

13 **Q. PLEASE DESCRIBE THE MULTI-PHASE RFP PROCESS PROPOSED BY**
14 **THE COMPANY FOR ITS UTILITY SCALE PROCUREMENTS.**

15 A. The Company proposes enhancing its utility scale procurements by implementing
16 a two-phase process. In Phase I, the Company would implement a traditional RFP
17 to procure resources. Phase I would also include an added submission refresh
18 process to allow projects to "buy down" their project costs to provide the ability for
19 more projects to be procured as needed.

20 Phase II is an optional phase in which the RFP remains active for an extended
21 period and offers additional customer subscription opportunities. Phase II would
22 only be available, if necessary, to address customer needs that may remain after the
23 conclusion of Phase I.

1 **Q. PLEASE EXPLAIN THE COMPANY’S PHASE I PROPOSAL.**

2 A. As noted above, Phase I consists of a traditional competitive solicitation conducted
3 in accordance with the Commission’s RFP rules consistent with past practice. Each
4 proposal submitted into an RFP is evaluated and ranked based on the levelized total
5 net benefits to Georgia Power’s customers on a dollar per MW hour (\$/MWh)
6 basis.¹ RFP submissions are then further evaluated by the Company and an
7 Independent Evaluator for transmission and environmental impacts. Competitive
8 submissions that meet the Company’s best cost threshold are deemed to provide net
9 benefits for customers are moved to a Short List. Short List proposals comprise the
10 winning portfolio of resources that proceed to contract execution.

11 If customer subscription needs remain after the Company identifies the Short List
12 in the traditional portion of the Phase I RFP, the Company proposes to then return
13 to the fully evaluated list of proposals not selected for the Short List. These
14 submissions will then be offered the opportunity to execute a contract or otherwise
15 move forward in the process if the participant can refresh the submission price such
16 that the net benefit of the project is equal to the average total net benefit of the Short
17 List portfolio of resources originally selected. This submission price refresh process
18 will be designed in compliance with Commission RFP rules to ensure that any
19 additional projects selected through this process meet the Commission’s
20 certification requirements.

¹ The total net benefit of a proposal is calculated by comparing the costs customers will pay if the proposal advances to the projected costs customers would otherwise incur if the proposal were not advanced (“Total Net Benefit”).

1 **Q. PLEASE EXPLAIN THE COMPANY’S PHASE II PROPOSAL.**

2 A. The Company proposes to add a second phase to the Utility Scale RFP process,
3 which extends the RFP and allows new projects to be submitted at or below a price
4 target that results in a Total Net Benefit that is greater than or equal to the average
5 Total Net Benefit of the winning portfolio of resources from the Phase I
6 procurement. As part of this Phase II process, customers interested in subscribing
7 to the Company’s CARES program can work with developers to self-identify
8 resources and submit additional proposals to meet additional customer subscription
9 demand not otherwise satisfied by Phase I of the proposed RFP process (“Customer
10 Identified Resources” or “CIRs”).

11 Project developers and potential subscribers can collaborate to submit proposals to
12 meet a price target that ensures new projects will deliver a Net Benefit greater than
13 or equal to the original portfolio’s Total Net Benefits. Additionally, RFP
14 participants can submit new proposals in this extended RFP process independently,
15 offering potential subscribers the opportunity to subscribe to additional projects at
16 prices that ensure no costs are shifted to non-participating customers. Proposals
17 submitted into Phase II will undergo a full evaluation, including a transmission
18 analysis, in order to provide final pricing that ensures such projects deliver value to
19 all customers.

20 Phase II would only be made available if there are unmet CARES Utility Scale
21 customer subscription needs. Thus, this additional phase provides additional
22 customer subscription opportunities, if necessary, while simultaneously securing
23 additional renewable resources in a manner that preserves benefits and protects all
24 customers.

1 **Q. WHAT DOES IT MEAN THAT THE COMPANY WILL OFFER**
2 **FLEXIBLE CODS?**

3 A. The Company will incorporate a range of RCODs sought in its RFPs rather than
4 limiting resources to only one, specific COD window. Based on the outcomes of
5 recent RFPs, Georgia Power has proposed to use a range of COD years to
6 incorporate additional flexibility for participants and for the Company in its
7 competitive solicitations.

8 **Distributed Generation RFPs**

9 **Q. WHICH ENHANCEMENTS TO THE UTILITY SCALE PROCESS WILL**
10 **ALSO BE APPLIED TO THE DG PROCUREMENT PROCESS?**

11 A. The Company proposes to continue utilizing the best cost-methodology in its DG
12 procurement process. Additionally, the Company proposes implementing the same
13 two-phase RFP approach outlined above to the DG procurement process, including
14 the Phase I plus the submission refresh process and the additional Phase II CIR
15 process. As with the utility scale RFP process, the submission refresh option
16 enhancement to buy down project costs in Phase I and the Phase II CIR process
17 would be available only if there continues to be an unmet customer subscription
18 need after the initial CARES DG RFP, including the need to supply the proposed
19 Residential DG Community Solar Program.

20 **Q. WHAT OTHER ENHANCEMENTS HAS THE COMPANY PROPOSED**
21 **FOR ITS DG RFP?**

22 A. The Company is proposing two additional enhancements that are new to the DG
23 RFP process. First, the Company proposes adding the option for flexible DG
24 resources that include battery energy storage systems (“BESS”) as part of its
25 procurement strategy. Second, the Company is proposing to offer more information
26 to help RFP participants effectively locate projects through the use of locational
27 value as part of the evaluation process.

1 **Q. WHAT IS THE COMPANY PROPOSING WITH RESPECT TO FLEXIBLE**
2 **DG SOLAR PROCUREMENT THAT INCLUDES BESS RESOURCES?**

3 A. The Company proposes to procure flexible DG resources, with the opportunity to
4 co-locate distribution-connected BESS resources, as part of its DG procurement
5 process. With increasing solar penetration, operational flexibility and control at the
6 distribution level is vital to ensure System reliability. Further, dispatchable BESS
7 resources can deliver much needed capacity to the System and provide value to all
8 customers. The ability to add solar charged or grid charged dispatchable BESS
9 technology to solar facilities will enhance System capabilities and will afford more
10 flexibility and control at the distribution level. Flexible DG resources will be
11 recognized for the additional value delivered as part of the RFP evaluation process.

12 **Q. WHAT LOCATIONAL GUIDANCE DOES THE COMPANY GIVE DG**
13 **RFP PARTICIPANTS TODAY?**

14 A. The Company implemented the statewide solar DG Hosting Capacity Tool in
15 November 2023. This tool is a “heat map” that uses results from different feeder
16 studies to help RFP participants locate potential sites for projects. The System is
17 dynamic and is updated as new resources are added; therefore, the Company
18 updates the Hosting Capacity Tool periodically to reflect such changes. The first
19 annual update to the tool was released in December 2024 and the Company expects
20 to update the tool on a semi-annual basis beginning in 2025.

21 Additionally, the Company offers interconnection guidance to assist developers in
22 determining the feasibility of installing DG resources within the Georgia Power
23 service territory. Together, the DG Hosting Capacity tool and the Company’s
24 existing interconnection guidance help RFP participants site projects in favorable
25 locations.

1 **Q. WHAT NEW LOCATIONAL VALUE CONSIDERATIONS WOULD THE**
2 **COMPANY CONSIDER AS PART OF ITS PROPOSED ENHANCEMENT?**

3 A. The updated RCB Framework introduces new locational value considerations into
4 the Company's evaluation of renewable DG RFP submissions. To aid in the
5 development of renewable DG resources in areas with more favorable
6 interconnection conditions, the Company has replaced the deferred transmission
7 investment component of the RCB Framework, which is applied to all resources
8 regardless of location, with a geographically differentiated transmission system
9 cost benefit factor in the DG RFP evaluation process to ensure the portfolio of
10 resources selected provides the maximum benefits to Georgia Power customers.

11 **Q. HOW WOULD THE COMPANY DETERMINE LOCATIONAL VALUE**
12 **UNDER ITS PROPOSED ENHANCEMENT?**

13 A. The locational value is determined by evaluating two alternative future system
14 scenarios, one with and one without additional DG resources for each identified
15 geographic region. The transmission investments and in service timing of projects
16 are determined for each scenario's study horizon. The resulting differences in
17 transmission project identification and timing are evaluated in an economic analysis
18 that results in a benefit or cost attributed to DG resources.

19 **Q. HOW WOULD THE PROPOSED LOCATIONAL VALUE CHANGES**
20 **HELP RFP PARTICIPANTS SITE PROJECTS MORE EFFECTIVELY?**

21 A. The proposed locational value changes would allow the Company to apply
22 geographically differentiated transmission system costs and benefits to the
23 evaluation process. By communicating those values to RFP participants as they
24 consider project location, the Company expects to receive a portfolio of proposals
25 that offer greater overall value to all customers, which would increase the chance
26 those proposals are selected as winning resources in the procurement process.

1 **Proposed Renewable Procurements**

2 **Q. WHAT DOES THE COMPANY SEEK TO PROCURE FROM**
3 **RENEWABLE RESOURCES AS PART OF THE 2025 IRP?**

4 A. Through the proposed enhanced procurement processes, the Company is seeking to
5 competitively procure energy from up to 4,000 MW of new renewable resources
6 by 2035, beginning with 1,000 MW from Utility Scale resources through an RFP
7 to be issued in 2026; and 100 MW from DG resources. This amount represents an
8 appropriate level of near-term procurement of new resources as the Company
9 navigates the challenges of renewable integration, while maintaining a long-term
10 renewable target amount that benefits all customers. At this level of procurement,
11 the Company continues its measured and disciplined approach to renewable
12 resource procurement for the benefit of all customers.

13 **Q. HOW MANY RFPS IS THE COMPANY PROPOSING TO OFFER AND**
14 **WHEN WILL THEY BE ISSUED?**

15 A. The Company proposes to issue three RFPs, maintaining a steady cadence of
16 solicitations while also providing for flexibility and adaptability in the procurement
17 processes. First, the Company proposes to issue a Utility Scale RFP in 2026 that
18 targets 1,000 MW of renewable resources anticipated to be online between
19 November 30, 2030, and November 30, 2032, as part of a flexible COD window.
20 Leveraging the proposed multi-phase RFP approach, this procurement would begin
21 with the proposed Phase I of the Utility Scale RFP. To retain the flexibility to meet
22 additional, unmet customer demand, the Company would initiate Phase II of its
23 proposed process to procure up to an additional 3,000 MW by 2035, thus offering
24 the ability for RFP participants and subscribing customers alike to contribute to the
25 cost effectiveness of individual projects and support additional renewable
26 resources.

1 Second, Georgia Power proposes to issue two DG RFPs, one in 2026 and one in
2 2027, each seeking 50 MW of resources with commercial operation in 2027, 2028,
3 and 2029. Both DG RFPs would occur under the proposed Phase I of the DG RFP
4 process and would add an additional Phase II procurement opportunity as proposed
5 and if needed to meet customer demand.

6 The table below summarizes the Company’s proposed RFPs:

RFP	Expected Issuance	Target (MW)	Expected COD
Utility Scale	2026	1,000	2030–2032
Distributed Generation	2026	50	2027–2028
Distributed Generation	2027	50	2029

7

8 **Q. WHAT ADDITIONAL SUM DOES THE COMPANY REQUEST FOR ITS**
9 **UTILITY SCALE AND DG RFPs?**

10 A. Consistent with the additional sum approved in the 2022 IRP, the Company
11 requests a levelized \$4.00 per kilowatt-year (“kW-yr”) AC of the procured amount
12 annually for the term of each PPA entered into as a result of its Utility Scale and
13 DG RFPs. Such an additional sum appropriately incents the Company to
14 competitively procure additional resources and fairly considers lost revenues,
15 changed risks, and an equitable sharing of benefits consistent with the additional
16 sum authorized by statute.²

² See O.C.G.A. 46-3A-9 (“The approved or actual cost, whichever is less, of any certificated demand-side capacity option shall be recovered by the utility in rates, along with an additional sum as determined by the commission to encourage the development of such resources.”).

1 **Q. HOW DOES THE COMPANY PROPOSE TO RECOVER THE COSTS**
2 **RELATED TO ITS RENEWABLE PROCUREMENTS?**

3 A. Consistent with past practice, the Company proposes to recover the costs related to
4 the procurement of renewable energy through the fuel cost recovery (“FCR”)
5 clause. Any participation charges designed to recover associated costs and paid by
6 subscribing customer(s) (as described below) would be applied to the fuel clause to
7 reduce FCR costs.

8 **IV. RENEWABLE AND RESILIENCY CUSTOMER PROGRAMS**

9 **Customer Renewable Subscription Programs**

10 **Q. WHY IS THE COMPANY PROPOSING TO MAKE ALL THE ENERGY**
11 **PROCURED THROUGH THE UTILITY SCALE AND DG RFPs**
12 **AVAILABLE FOR SUBSCRIPTION?**

13 A. Many Georgia Power customers continue to express increased interest in renewable
14 energy programs. Consistent with the approach taken in the 2022 IRP and in
15 response to growing customer demand, the Company proposes to continue to make
16 the energy from every MW procured by the Utility Scale and DG RFPs available
17 for subscription by qualifying customers. Through the Company’s competitive
18 procurement and subscription processes, renewable energy is procured to the
19 benefit of all customers, while also allowing interested individual customers to
20 access the attributes of these resources directly.

21 **Q. PLEASE DESCRIBE THE PROPOSED MODIFICATIONS TO THE**
22 **CARES PROGRAM.**

23 A. The Company proposes enhancements to the CARES program to increase
24 flexibility, expand customer participation, and align renewable procurement with
25 demand while mitigating financial risks to non-participating customers. The Utility
26 Scale RFP process has been modified to allow for additional procurement

1 opportunities if customer subscription demand is not met through the traditional
2 RFP process, ensuring that interested customers have the opportunity to drive
3 additional renewable procurement beyond initial targets. To improve the
4 subscription process, the Company proposes to refine the NOI process, enabling
5 greater customer participation through a Commission-approved methodology.
6 Subscription terms now range from 10 to 30 years in five-year increments, with
7 customers offered two pricing options: a renewable energy credit (“REC”)-based
8 fixed program portfolio charge without an hourly energy credit, or a fixed program
9 charge based on the PPA price with an associated hourly energy credit.

10 To reduce financial risks to non-participating customers, the pricing methodology
11 for the hourly energy credit will be modified, introducing reimbursement thresholds
12 to ensure fairness and prevent negative impacts to nonparticipants. Increased
13 subscription flexibility has also been incorporated to allow for increased
14 procurement through the Phase I submission refresh process to buy down project
15 costs if customer demand exceeds the initial megawatts procured. This enables
16 additional projects from the competitive tier or target list, as appropriate, to revise
17 their submission prices in a way that maintains or improves overall program
18 benefits. If further subscription needs remain unmet, the RFP process will be
19 extended through the proposed Phase II process to allow additional projects to be
20 submitted for consideration. Through this process, customers would have the option
21 to propose specific renewable resources for procurement through a CIR option,
22 negotiating directly with developers, as well as the ability to subscribe to
23 incremental resources at higher subscription prices that offset higher PPA costs.
24 Successful proposals in this process will result in a PPA between Georgia Power
25 and the facility owner, and a corresponding CARES Customer Agreement between
26 Georgia Power and the subscribing customer. All RECs from these CIRs will be
27 retired on behalf of the subscribing customer.

1 **Q. PLEASE DESCRIBE THE CARES DG SUBSCRIPTION PROGRAM.**

2 A. The Company proposes to expand the CARES program by offering subscriptions
3 to resources procured through Georgia Power's DG RFPs. This expansion will
4 provide more Georgia Power customers with the opportunity to participate in the
5 CARES Program, as this part of the program will be available to eligible C&I
6 customers with an aggregate demand between 1 MW and 3 MW, as well as
7 Residential customers. Initial subscriptions will be available to eligible C&I
8 customers from the initial procurement phase of each DG RFP. These customers
9 will participate in the CARES NOI process similar to the Utility Scale CARES
10 program. If C&I customer demand for subscriptions exceeds the MW procured
11 through the DG RFP, the Company will initiate the Phase I submission refresh
12 process (described previously) and Phase II of the DG RFP, if needed.

13 The DG Community Solar Program will allocate up to 10 MW of the initial 50 MW
14 target from each DG RFP for subscription by residential customers. This Program
15 will provide customers with access to solar from new DG facilities using a
16 simplified CARES subscription methodology. Under this approach, residential
17 customers will subscribe to solar energy through a pricing mechanism based on the
18 PPA price, with energy credits calculated from the average value of the facility's
19 production, factoring in Georgia Power's hourly operating costs of incremental
20 generation per kWh. RECs will be retired on behalf of participating customers
21 based on the actual output of the facilities.

22 Georgia Power is exploring opportunities to partner with third parties to reduce
23 subscription prices for lower-income customers, thereby enhancing the value
24 proposition for eligible participants. If demand exceeds the available MW
25 allocation for residential customers, or if additional demand for DG subscriptions
26 is identified from other customers, additional resources may be procured through
27 the extended RFP process, which will allow developers the opportunity to bring in
28 new subscribers and drive the need for incremental projects.

1 **Customer-Sited Renewable Programs**

2 **Q. DOES THE COMPANY PROPOSE ANY CUSTOMER-SITED**
3 **RENEWABLE PROGRAMS?**

4 A. Yes. The Company seeks Commission approval of the Customer-Sited Solar Plus
5 Storage Pilot, which will enhance options for customers interested in installing
6 renewable resources at their premises. Additionally, the Company seeks to modify
7 the existing Customer Connected Solar Program to add storage resources, increase
8 the size of eligible facilities, and allow customers without billing history to
9 participate. These programs expand upon Georgia Power's existing portfolio of
10 customer-sited options to now include storage resources, enhancing customer
11 resiliency and grid value through dispatchable capacity-benefitting resources.

12 **Q. PLEASE DESCRIBE THE CUSTOMER-SITED SOLAR PLUS STORAGE**
13 **PILOT PROGRAM.**

14 A. The Customer-Sited Solar Plus Storage Pilot Program is designed to encourage the
15 installation of solar plus battery storage at residential and small commercial sites.
16 The pilot targets 50 MW of capacity, divided equally into two participation
17 pathways: Customer-Directed and Company-Directed. Participants in either
18 pathway can enroll systems up to 20 kW (residential) or 250 kW (small
19 commercial). The systems will be interconnected behind the meter ("BTM"), can
20 be owned by the participating customer or a third party, and will be dispatched by
21 the Company to deliver capacity value to the System. The pilot aims to improve
22 grid reliability, evaluate customer preferences, and enhance economic viability of
23 dispatchable customer-sited solar-plus-storage resources.

24 **Q. DESCRIBE EACH PARTICIPATION PATHWAY FOR THE CUSTOMER-**
25 **SITED SOLAR PLUS STORAGE PILOT.**

26 A. Under the Customer-Directed model, customers direct the use of the battery and
27 can respond to discrete utility-called events to receive incentive payments. In

1 addition to an annual enrollment incentive of \$15/kW, participating customers will
2 receive payments based on the asset performance during called events of
3 \$1.50/kWh. New or existing assets are eligible to participate in this program.

4 Under the Company-Directed model, Georgia Power will monitor and control the
5 BESS and operate it based on System needs. In exchange, customers receive a one-
6 time upfront incentive of \$750/kW for a 10-year commitment. Only new assets will
7 be eligible to participate, and systems must pair solar and storage. In both models,
8 the BESS is available for resiliency use by the customer in times of grid outage.

9 **Q. ARE THERE ANY RATE LIMITATIONS ON WHICH CUSTOMERS CAN**
10 **PARTICIPATE?**

11 A. Yes. Although participating customers will retain their rate options, there are two
12 proposed rate limitations: (1) participating residential customers cannot be on the
13 residential (“R”) rate, and (2) participating commercial customers cannot be on the
14 general service (“GS”) rate. These energy-only rates do not provide an appropriate
15 time-of-use (“TOU”) or demand signal to incentivize operation of the solar and
16 battery resources to maximize System benefit. Participating customers will be
17 eligible for other riders, including the renewable and nonrenewable resources
18 (“RNR”) rate.

19 **Q. IS THERE A PARTICIPATION CAP ON THE PILOT?**

20 A. The Company has not proposed a cap on participation, but rather presented a target
21 enrollment it believes is feasible to implement over the IRP cycle. In the event the
22 Company reaches the target enrollment before the 2028 IRP, the Company will
23 present to the Commission potential program modifications based on lessons
24 learned and seek approval to continue adding interested customers. This “check-in”
25 approach would allow for feedback and learnings to be incorporated without
26 signaling an anticipated end to, or ceiling on, enrollment.

1 **Q. DID THE COMPANY COLLABORATE WITH STAKEHOLDERS IN**
2 **DEVELOPING THE SOLAR PLUS STORAGE PILOT?**

3 A. Yes. The Company participated in two collaboration sessions at the Commission
4 and received additional feedback from participating stakeholders following those
5 meetings. In addition, the Company had conversations with original equipment
6 manufacturers (“OEMs”), installers, program facilitators, sources of potential
7 complimentary funding, and customers. The Company also reviewed peer
8 programs and talked with other utilities in the development process.

9 **Q. DOES THE PILOT PROGRAM DESIGN ADDRESS FEEDBACK THE**
10 **COMPANY RECEIVED THROUGH THE COLLABORATION PROCESS?**

11 A. Yes. As described more fully in the IRP Main Document, the pilot program features
12 a hybrid of upfront and ongoing compensation with incentives that are clear and
13 simple to understand. As proposed, the pilot program allows for broad customer
14 participation including those enrolled in time-varying rates, the RNR tariff, and
15 other utility programs, and includes special consideration for low to moderate
16 income customers. The pilot will leverage the battery inverter for measuring
17 performance and does not penalize customers for non-performance. The program
18 will support participation from multiple battery manufacturers; standalone storage;
19 and existing systems. The pilot ensures at least 20% of battery capacity remains
20 available for local resiliency, and provides for optionality to meet individual needs.
21 By incorporating program design elements in consideration of direct feedback from
22 stakeholders, that Company seeks to deliver a program that meets System, market,
23 and customer needs.

24 **Q. HOW DID THE COMPANY DETERMINE THE INCENTIVE VALUES TO**
25 **BE OFFERED FOR PROGRAM PARTICIPATION?**

26 A. The incentive values were calculated based on the forecasted avoided generation
27 capacity value associated with assets participating in each pathway. The net present

1 value over the term was discounted to 75%, applying a shared savings model
2 consistent with other DER programs. The Company intends this design to ensure
3 participating customers receive sufficient incentive to install dispatchable resources
4 and participate in the program, while also ensuring non-participating customers
5 receive value and do not subsidize implementation and program administration
6 costs.

7 In recognition of the unique needs of low-to-moderate income residential and
8 municipal, university, school and hospital (“MUSH”) commercial customers, the
9 discount factor was not applied to derive incentives for customers in these
10 segments. Further, the program was designed to allow and enable stacking of
11 additional funding sources including resources specifically targeting these groups
12 of customers.

13 **Q. WHAT DOES THE COMPANY HOPE TO LEARN OR ACHIEVE**
14 **THROUGH THIS PILOT PROGRAM?**

15 A. The Company has designed the Customer-Sited Solar Plus Storage Pilot Program
16 to provide the Company with valuable information regarding the technical
17 capabilities, value, and market acceptance of customer-sited solar plus storage.

18 Additionally, as described in the Main panel, the Company has requested enhanced
19 control through its Distributed Energy Resource Management System (“DERMS”).
20 The parallel participation pathways allow for validation of the benefits
21 accompanying enhanced control. The Company’s DERMS will have the capability
22 to dispatch DERs within program parameters, such that the Company will be able
23 to optimize the operation to realize anticipated capacity value and explore
24 additional use cases for solar plus storage and other programs.

1 **Q. PLEASE DESCRIBE THE PROPOSED MODIFICATIONS TO THE**
2 **CUSTOMER CONNECTED SOLAR PROGRAM.**

3 A. Georgia Power proposes modifying the Customer Connected Solar Program by
4 (1) increasing the facility site criteria to a 250 kW minimum and 6 MW maximum,
5 (2) expanding the resource types to include BESS co-located with solar, and
6 (3) allowing new customers to participate. The proposed enhancements are driven
7 by stakeholder feedback. By expanding the eligibility criteria, the Company aims
8 to fill the remaining 23+ MW to meet customer resiliency needs through this
9 expanded front of the meter option. The capacity value created by the dispatchable
10 storage systems will benefit all Georgia Power customers through enhanced
11 reliability and affordability, will support customer resiliency goals, and support the
12 growth of a sustainable customer-sited DG market in Georgia.

13 ***Other Customer Renewable Program Options***

14 **Q. ARE THE CARES SUBSCRIPTION AND CUSTOMER-SITED**
15 **PROGRAMS THE ONLY OPTIONS AVAILABLE FOR CUSTOMERS TO**
16 **SUPPORT RENEWABLE RESOURCES?**

17 A. No. As stated in the 2025 IRP Main Document, customers will continue to have
18 options to offset their own energy consumption using BTM customer-sited
19 resources, offset their own energy consumption and sell any excess output through
20 the RNR tariff, participate in Community Solar or one of the Company's REC
21 purchase programs, or sell renewable energy to Georgia Power as a Qualifying
22 Facility ("QF") under the Public Utility Regulatory Policies Act of 1978
23 ("PURPA"). Georgia Power has interconnected more than 12,000 solar projects to
24 date, including customer generators who choose to offset energy usage with BTM
25 solar installations, through RNR or as a QF.

1 **Q. IS THE COMPANY PROPOSING TO MAKE ANY CHANGES TO THE**
2 **COMMUNITY SOLAR PROGRAM?**

3 A. No, Georgia Power is not requesting any modifications to the existing Community
4 Solar Program. However, as described above, the Company has proposed the new
5 DG Community Solar Program as an additional subscription option for residential
6 customers.

7 **Q. PLEASE DESCRIBE GEORGIA POWER'S EXISTING CUSTOMER-**
8 **SITED RENEWABLE PROGRAMS.**

9 A. The Company interconnects and receives energy from customer generators through
10 several Commission approved options. The Energy Offset option exists for
11 customers who wish to install on-site generation without compensation for energy
12 pushed back to the grid. The RNR program enrolls customer generators who offset
13 some of their usage with renewable energy generated onsite and compensates these
14 generators for energy pushed back to the grid at the Company's Renewable Cost
15 Benefit adjusted Solar Avoided cost, plus a \$0.04 adder pursuant to the 2022 Rate
16 Case. This adder creates additional costs for all customers as it pays customer
17 generators more than the Company's avoided cost for this energy. Approximately
18 5,000 customer generators are compensated at retail rates for all the energy
19 produced from customer sited generation through the fully subscribed Monthly
20 Netting program. This program also creates significant upward rate pressure for
21 non-participating customers by compensating above the avoided cost value.
22 Finally, the Company complies with its purchase obligations pursuant to PURPA
23 through standard offer purchases from QFs. The pricing for these transactions is
24 based on the Company's projected day ahead hourly avoided costs and holds other
25 customers harmless.

1 **Q. PLEASE DESCRIBE THE EXISTING REC PROGRAMS.**

2 A. The Simple Solar Program is available to residential, commercial, and industrial
3 customers, allowing them to match either 50% or 100% of their monthly energy
4 usage with solar RECs retired on their behalf. The program operates on a monthly
5 basis with no long-term commitment required. Since its launch in 2022, it has
6 consistently served around 1,800 customers, resulting in approximately 27,000
7 RECs being retired annually.

8 The Flex REC Program originated in the 2022 IRP as a replacement for the Simple
9 Solar Large Volume program. It enables Georgia Power to procure larger quantities
10 of RECs to meet increasing customer demand. This program sources RECs from a
11 diverse range of renewable resources, including solar and wind, and potentially
12 other renewable sources. Since its inception, Flex REC has maintained an average
13 of 16 customers per month, retiring about 300,000 RECs annually on behalf of
14 participating customers.

15 The Retail REC Retirement (“R3”) program is designed for C&I customers who
16 wish to claim renewable benefits from certain existing renewable resources. It
17 allows these customers to subscribe to RECs from System resources that are either
18 already operational or under construction. The RECs and associated environmental
19 attributes, which would typically be retired on behalf of all customers, are instead
20 retired specifically on behalf of the participating customer. Currently, there are no
21 participants in this program, but it is expected to become a viable option as more
22 customers aim to meet their carbon reduction goals within the next five years.

23 The Company is not proposing any modifications to these programs at this time.

1 **Existing Customer Resiliency Programs**

2 **Q. PLEASE DESCRIBE THE DER CUSTOMER PILOT PROGRAM THAT**
3 **THE COMMISSION APPROVED IN THE 2022 IRP.**

4 A. Following the 2022 IRP, the Company developed the DER Customer Pilot Program
5 alongside Commission Staff and intervenors, resulting in the Resiliency Asset
6 Service (“RAS-1”) and Demand Response Credit (“DRC-1”) tariffs. These tariffs,
7 approved in January 2023, provide a framework for customers seeking resiliency-
8 focused solutions. For customers participating on RAS-1, Georgia Power will
9 install and operate a dispatchable DER behind the customer’s meter. Participating
10 customers pay a monthly service charge for that resiliency benefit. Customers
11 participating in RAS-1 also have the option to participate in DRC-1, in which
12 Georgia Power will provide a credit in exchange for the Company’s ability to use
13 the DER for demand response during System reliability events.

14 **Q. PLEASE DESCRIBE THE DER COLOCATION PROGRAM THAT THE**
15 **COMMISSION APPROVED IN THE 2023 IRP UPDATE.**

16 A. The DER Colocation program, as approved in the 2023 IRP Update Order, is an
17 optional tariff available to qualifying C&I customers. Under this program, Georgia
18 Power owns, operates, maintains, and controls dispatchable DERs located on
19 customer premises, which are then economically dispatched to provide energy and
20 capacity benefits to all customers. The DER systems are interconnected to the
21 electric grid, allowing for energy transmission while also serving as a resiliency
22 resource for participating customers during outages. Participating customers pay
23 rates that ensure the DER investment remains below its system value, thereby
24 providing financial benefits to all customers. The DER technology used in this
25 program may include combustion turbines, reciprocating internal combustion
26 engines (“RICE”), and other dispatchable technology with a firm fuel supply.

1 **Q. PLEASE DESCRIBE THE DER CUSTOMER-OWNED PROGRAM THAT**
2 **THE COMMISSION APPROVED IN THE 2023 IRP UPDATE.**

3 A. The DER Customer-Owned Program is an optional program designed for
4 qualifying C&I customers who own dispatchable DERs less than 10 MW. Under
5 the DER Customer-Owned tariff (“DCO-1”), participating customers receive bill
6 credits based on the capacity and energy value of their DERs. The program ensures
7 that DER interconnections support the electric grid while also providing backup
8 power during outages. Similar to the DER Colocation Program, a key difference
9 under the DER Customer-Owned Program is that the customer retains ownership
10 of the DER asset, while Georgia Power operates and controls the resource for
11 economic dispatch.

12 **Q. WHAT ARE THE COMPANY’S OBJECTIVES IN OFFERING THESE**
13 **DER PROGRAMS TO CUSTOMERS?**

14 A. DER programs are an important component of the Company’s portfolio of customer
15 programs. The Company is in regular communication with customers and continues
16 to modify its suite of DER options to better align with customer interest and
17 Company needs. The design of the Company’s DER programs is intended to
18 maximize mutual benefits among customers looking to make these types of onsite
19 investments while leveraging the resilience and reliability benefits to the grid and
20 all retail customers. In addition, the Company aims to encourage customers
21 considering adding these resources to adopt cleaner resources.

22 **Q. ARE ANY CUSTOMERS ENROLLED ON THESE DER TARIFFS?**

23 A. Not yet, but the Company is working closely with customers to move forward with
24 projects on its DER tariffs. Discussions are ongoing and several potential customers
25 have progressed to evaluating contract language and site design elements.

1 **Q. IS THE COMPANY PROPOSING ANY MODIFICATIONS TO EXISTING**
2 **DER PROGRAMS?**

3 A. Georgia Power is seeking to modify the DER Customer-Owned Program in the
4 2025 IRP to allow contract terms up to 15 years. Previous tariff language restricted
5 contracts through 2031. Extending the potential contract duration increases the
6 value proposition for both participating and non-participating customers.
7 Participating customers will have increased certainty on the value stream to justify
8 additional costs associated with participation. Non-participating customers receive
9 the benefits of capacity locked in and procured at a discounted rate for an extended
10 duration.

11 **Proposed Customer Resiliency Program**

12 **Q. PLEASE DESCRIBE THE LARGE CUSTOMER OWNED RESILIENCY**
13 **PROGRAM THAT GEORGIA POWER IS PROPOSING IN THE 2025 IRP.**

14 A. The LCOR Program is a newly proposed program aimed at transmission-connected
15 C&I customers. This program allows these customers to retain ownership of their
16 DER assets while providing Georgia Power with operational certainty that
17 contracted response will materialize when called upon by the Company for utility
18 use. These assets are not intended to push back onto the grid and the resources do
19 not need to be separately metered. Participating customers will be responsible for
20 all fuel and O&M costs associated with the assets. As with the Company's other
21 DER programs, assets must be dispatchable with firm fuel supply and permitted for
22 non-emergency use. By expanding its DER offerings, Georgia Power aims to
23 provide a robust portfolio of options for customers with diverse energy needs while
24 ensuring grid resilience and affordability.

1 **Q. WHAT ARE THE BENEFITS OF THE LCOR PROGRAM?**

2 A. Benefits of the LCOR Program include:

- 3 • Economic Compensation: Participating customers are compensated for
4 providing firm load reductions to the System and Georgia Power's need for
5 additional capital expenditures is reduced.
- 6 • Faster Capacity Recognition: Unlike the supply-side DER programs that are
7 subject to FERC-dictated interconnection timelines and requirements, this
8 program accelerates the timeframe in which co-located resources can be utilized
9 to meet capacity needs.
- 10 • Reliability Enhancement: The program ensures that load reductions materialize
11 when needed, reducing uncertainty, increasing efficiency, and improving grid
12 stability.
- 13 • Cost Savings for Non-Participants: Since the program operates under a shared
14 savings model, the cost of procuring capacity is lower than traditional
15 generation expansion, reducing costs for all customers.

16 **Q. WHICH CUSTOMERS ARE ELIGIBLE TO PARTICIPATE IN THE LCOR**
17 **PROGRAM?**

18 A. The LCOR Program is designed for large C&I customers who meet the following
19 eligibility criteria:

- 20 • Customers must own and operate dispatchable DERs with a firm fuel supply
21 permitted for non-emergency use.
- 22 • The DERs must be connected to Georgia Power's grid and be available to
23 respond based on System needs during a contracted number of hours.
- 24 • Customers must enter into a contractual agreement with Georgia Power to
25 provide demand response contributions.
- 26 • Participants must meet the minimum capacity commitment during events as
27 defined in the customer contract.

1 This program is particularly suited for businesses with critical energy needs, such
2 as data centers, manufacturing facilities, hospitals, and logistics hubs, where
3 backup power and load flexibility can be leveraged for grid resiliency.

4 **Electric Transportation**

5 **Q. WHAT IS VEHICLE-TO-EVERYTHING TECHNOLOGY?**

6 A. Vehicle-to-everything (“V2X”) technology refers to the use of bi-directional
7 charging technology that enables electric vehicles (“EVs”) to transfer energy stored
8 in their batteries back to buildings, houses, or the grid. With increasing EV
9 deployment, a significant number of batteries will be in the market, and unused
10 energy in those batteries could be beneficial as a grid asset.

11 **Q. PLEASE DESCRIBE THE COMPANY’S PROPOSAL FOR A VEHICLE**
12 **TO GRID PILOT PROGRAM.**

13 A. The Company seeks to install up to 10 bi-directional chargers for a grid-specific, or
14 V2G, pilot program across up to four customer locations. The pilot will be available
15 to public school systems served by Georgia Power that utilize or plan to utilize
16 electric school buses as part of their fleet.

17 **Q. WHY IS A V2G SCHOOL BUS PILOT AN APPROPRIATE STARTING**
18 **POINT TO EXPLORE V2X TECHNOLOGY?**

19 A. School systems are particularly well-suited for V2G pilot programs for several
20 reasons. First, school buses have regular, predictable schedules. They are typically
21 in use during the morning and afternoon, idle for long periods during the day and
22 overnight, and may not be in use at all during summer peak periods. This
23 predictability makes it easier to manage charging and discharging cycles and utilize
24 electric buses as a grid resource without impacting the school customer’s
25 transportation availability.

26 Second, school buses have large batteries that can store significant amounts of
27 energy. This makes them ideal for providing substantial power back to the grid

1 during peak demand times, and the scale of available capacity justifies
2 interconnection and equipment costs.

3 Third, school systems have already purchased electric buses and expressed interest
4 in participating in a Georgia Power V2G program. Stakeholders submitted a V2G
5 bus pilot idea as part of the DSMWG, and other utilities have launched pilots that
6 can serve as a guide for implementation. Finally implementing V2G technology in
7 school systems can serve as a model for other community-based projects,
8 promoting broader adoption and awareness of V2G capabilities.

9 **Q. WHAT DOES THE COMPANY HOPE TO LEARN FROM THE V2G**
10 **PILOT?**

11 A. The Company hopes to gain a better understanding of the infrastructure costs
12 required to support V2G and the ongoing costs to manage and administer such
13 technology. The Company also seeks to learn about the capabilities of V2G and the
14 value of vehicles as a grid resource to provide capacity during peak periods and
15 other use cases. Finally, the Company seeks to understand how customer behavior
16 and preferences will impact the potential for vehicles to serve as a reliable grid
17 resource while being used primarily as a transportation solution.

18

19 **V. CONCLUSION**

20 **Q. WHAT ARE GEORGIA POWER'S REQUESTS FOR RENEWABLE**
21 **RESOURCE PROCUREMENTS IN THIS CASE?**

22 A. Georgia Power seeks Commission approval of the following renewable resource
23 procurement requests:

24 1. The updated Utility Scale RFP process to procure energy from 1,000 MW
25 of new Utility Scale renewable energy resources, along with the ability to
26 procure additional resources above the initial MW target to meet the needs
27 of subscribing customers.

28 2. The updated DG RFP process to procure energy from 100 MW of new DG
29 solar resources through two separate RFPs (50 MW each), including the

incorporation of locational value in DG procurement evaluations and the ability to procure additional resources above the initial MW targets to meet the needs of subscribing customers.

3. The levelized additional sum of \$4.00 / kW-yr AC of the total capacity amount from which renewable energy is procured from the Utility Scale and DG RFPs proposed in this IRP, annually for the term of each PPA.

Q. WHAT ARE GEORGIA POWER'S REQUESTS AS IT RELATES TO CUSTOMER PROGRAMS IN THIS CASE?

A. Georgia Power seeks Commission approval of the following requests regarding its DSM Action Plan for the Proposed Case, DER Resiliency Programs, and customer renewable programs:

DSM:

1. Grant a certificate for the Residential Products program.
2. Decertify the Residential Refrigerator Recycling Plus program, the Residential Specialty Lighting program, and the Commercial Behavioral program.
3. Amend the certificate for four (4) previously certified programs:
 - i. the Residential Behavioral program;
 - ii. the Residential Demand Response program;
 - iii. the Commercial Prescriptive Program; and
 - iv. the Small Commercial Direct Install program.
4. Grant a waiver of the TRC requirement within Commission Rule 515-3-4-.04(4)(a)(3) for four (4) previously certified programs:
 - i. the Residential HopeWorks program;
 - ii. the Residential Home Energy Improvement program;
 - iii. the Residential Energy Assistance for Savings and Efficiency program; and
 - iv. the Commercial Custom program.
5. Approve the updated program economics for all previously certified DSM programs.

6. Approve the revised additional sum calculation methodology collected through the DSM programs certified in the 2025 DSM Application.
7. Approve the Company's other DSM activities as further specified in the Company's 2025 IRP in Docket No. 56002, including the Energy Efficiency Awareness Initiative, pilot studies, and Learning Power Education Initiative.

DER Resiliency Programs:

1. Approve the modification of the DER Customer Owned Program to allow contracting up to 15 years.
2. Approve the new Large Customer Owned Resiliency Program as described in the 2025 IRP.
3. Approve an additional sum of \$4/kW-year AC for new demand response and new DER programs, including the Large Customer Owned Resiliency Program, Solar + Storage Pilot Program, and modified Customer Connected Solar Program.
4. Approve the V2G Pilot.

Customer Renewable Programs:

1. Approve the enhanced CARES subscription program, including the ability for participating customers to subscribe to smaller, DG resources; the opportunity for residential customers to subscribe through the DG Community Solar Program; more flexible participation provisions; and the ability for customers to identify renewable resources to be considered for procurement, as described in the 2025 IRP.
2. Approve modifications to the Customer Connected Solar Program as described in the 2025 IRP.
3. Approve the small commercial and residential Customer-Sited Solar Plus Storage Pilot Program as described in the 2025 IRP.

Q. DOES THIS CONCLUDE YOUR TESTIMONY?

A. Yes.

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a copy of the within and foregoing GEORGIA POWER COMPANY'S 2025 INTEGRATED RESOURCE PLAN in DOCKET NO. 56002 upon all parties listed below via electronic service or by hand delivery and addressed as follows:

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This 28th day of February, 2025.



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CERTIFICATE OF SERVICE

I hereby certify that I have this day served a copy of the within and foregoing GEORGIA POWER COMPANY'S 2025 APPLICATION FOR CERTIFICATION, DECERTIFICATION, AND AMENDED DEMAND-SIDE MANAGEMENT PLAN IN DOCKET NO. 56003 upon all parties listed below via electronic service or by hand delivery and addressed as follows:

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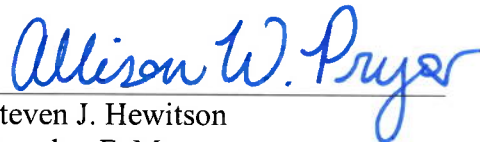
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