Georgia Power

Bin 10230
241 Ralph McGill Boulevard, NE
Atlanta, GA 30308-3374

PUBLIC DISCLOSURE

December 4, 2023

Ms. Sallie Tanner
Executive Secretary
Georgia Public Service Commission
244 Washington Street, SW
Atlanta, GA 30334-5701

RE: Georgia Power Company's 2023 Integrated Resource Plan Update;
Docket No. 55378

Dear Ms. Tanner:

In accordance with O.C.G.A. § 46-3A-1, et seq., and Georgia Public Service Commission (the "Commission") Rules 515-3-4-.06 through 515-3-4-.10, as applicable, Georgia Power Company ("Georgia Power") filed its 2023 Integrated Resource Plan ("IRP") Update on October 27, 2023. Georgia Power now files a Supplemental Filing including:

- 2023 Request for Information for Capacity Resources – Summary of Results
- Resource Mix Study – Additional Expansion Plan Scenarios

This filing contains certain information that is being filed under the Commission's trade secret rules as explained in the enclosed basis for assertion. Therefore, in addition to the trade secret documents, as agreed to with Commission Staff and the Executive Secretary, 15 copies and an electronic version of this redacted 2023 IRP Update Supplemental Filing and supporting documentation are enclosed for public disclosure.

If you have any questions, please contact Cheryl Johnson at 404-506-6837.

Sincerely,

/s/ Kelley M. Balkcom

Kelley M. Balkcom
Director, Regulatory Affairs
mmcclosk@southernco.com

Enclosure

BEFORE THE GEORGIA PUBLIC SERVICE COMMISSION

GEORGIA POWER COMPANY
DOCKET NO. 55378

2023 IRP UPDATE SUPPLEMENTAL FILING

BASIS FOR THE ASSERTION THAT THE INFORMATION SUBMITTED IS A TRADE SECRET

As part of Georgia Power Company's 2023 Integrated Resource Plan Update filed in Docket No. 55378 ("2023 IRP Update"), Georgia Power Company ("Georgia Power" or the "Company") submits to the Georgia Public Service Commission its 2023 IRP Update Supplemental Filing ("Supplemental Filing"). In the Supplemental Filing, the Company has provided data supporting proposed projects including Company-owned proposals, which include sensitive pricing, resource operational capability data, and development timelines, and also certain information regarding the Company's proprietary planning processes, financial data, technology screening assumptions, generic technology and resource cost information, specific resource, technology and avoided cost information, economic analyses, load and energy forecast data assumptions, and other data, including confidential details regarding current and future transmission projects (the "Information"). All of such information constitutes trade secret information of Southern Company, Georgia Power, and its affiliates and is therefore protected from public disclosure under Commission Rule 515-3-1-.11.

The Information derives economic value from not being generally known to, and not being readily ascertainable by proper means by other persons who can obtain economic value from its disclosure or use. Specifically, the trade secret portions of the Information contained herein include competitively sensitive pricing and operational capability data, including project development timelines where applicable, specific to the resources under contract within each power purchase agreement or proposed to be developed. If the Information were made public, competitors, bidders, and suppliers could use the Information to unfairly manipulate the request for proposals process and competitive market to structure future bids and set an artificial price floor to arbitrarily increase prices to the detriment of the Company and its customers. Public dissemination of the Information would undermine Georgia Power's ability to negotiate the best price and contract terms and could harm the Company's ability to secure the best cost bids and resources for the benefit of customers. In addition, the terms of the power purchase agreements themselves provides for the confidentiality and protection of the Information. Compromising the confidentiality of such Information could harm Georgia Power in future PPA negotiations, as counterparties may fear compelled disclosure of key contractual terms. Lastly, the Company's competitors are not required to reveal or publish similar information.

The trade secret portions of the Information also contain competitively sensitive cost information related to available technology options, processes and data used by Georgia Power in analyzing resource addition schedules, financial data used in the Company's resource analyses, and other confidential details including data supporting resource economic evaluations. Public dissemination of the trade secret portions of the Information would allow Georgia Power's

competitors and suppliers to have access to such processes and strategies and thereby gain an unfair competitive advantage in the marketplace. Competitors would obtain an unfair advantage because they are not required to reveal similar information and can utilize such trade secret portions of the Information to manipulate pricing and timing of supply to the disadvantage of Georgia Power. Competitors would also unfairly benefit in having access and insight into the Company's planning processes and methodologies. This competitive advantage for the Company's suppliers and competitors would mean that Georgia Power will potentially pay higher prices to suppliers, ultimately harming Georgia Power and its customers.

The Information is subject to substantial procedures to maintain its secrecy. Only select Georgia Power and Southern Company Services personnel are granted access to the Information. Those personnel receive access only on a "need to know" basis. Parties outside the Company who have been granted access to the Information, if any, have been required to sign confidentiality agreements with respect to the Information.

Jeffrey R. Grubb, first being duly sworn, deposes and states that he has reviewed the Company's 2023 IRP Update Supplemental Filing and that to the best of his knowledge the specific information designated as trade secret constitute trade secrets in accordance with O.C.G.A. § 10-1-761 (2021).

Jeffrey R. Grubb
Director, Resource Policy & Planning
Georgia Power Company

Subscribed and sworn to before me this 4th day of December, 2023.

Notary Public

My Commission expires:



Georgia Power

DOCKET NO. 55378

2023 REQUEST FOR INFORMATION FOR CAPACITY RESOURCES – SUMMARY OF RESULTS

Georgia Power Company

4 December 2023

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1.0 Overview of the RFI

1.1 Purpose and Scope

On September 26, 2023, Georgia Power Company ("Georgia Power" or the "Company") issued a Request for Information ("RFI") to gather market information regarding the availability of existing and planned Capacity Resources for the capacity need identified for years 2026 through 2028, the timeframe being addressed in the Company's 2023 IRP Update, as well as for years 2029 through 2031, the time period to be addressed in the Company's 2029-2031 All-Source Request for Proposals ("RFP"). The primary objective of the RFI was to provide Georgia Power with current market information on the size, cost, technology, availability, risk, and operational and technical attributes of any reliable resource that can meet the firmness and dispatchability requirements, as defined in the RFI, including, but not limited to: (i) Standalone Energy Storage System ("ESS") with grid charging capability; (ii) ESS with a Renewable Resource[1] with grid charging capability; or (iii) thermal generation (e.g. natural gas, oil fired) (each a "Capacity Resource" and collectively, "Resource Types").

Georgia Power sought information regarding projects that could commence delivery on or after November 1, 2026, but no later than November 1, 2030 pursuant to either a Power Purchase Agreement ("PPA"), Asset Purchase Agreement ("APA"), or a Build Transfer Agreements ("BTA"). Each Capacity Resource identified in the RFI had to be at least one hundred megawatts (100 MW) in size, and a single resource could not exceed twelve hundred megawatts (1,200 MW). Georgia Power's interest included the availability of PPAs with a term of five (5), ten (10), fifteen (15), or twenty (20) years and the ability to deliver energy in the Southern Company Transmission System[2] and Georgia Integrated Transmission System[3] (collectively, "Southern Transmission Territory" or "STT") or at an interface between the STT and another transmission service provider. Capacity Resources with ESS with grid charging capability, including those paired with a Renewable Resource, were required to be interconnected to the Southern Company Transmission System to assure Georgia Power can provide (toll) the energy, and solely charge energy from the Southern Company Transmission System. Regarding Standalone ESS Capacity Resources, Georgia Power would provide (toll) all the energy required to charge a Standalone ESS, excluding station service. Georgia Power considered APAs for existing facilities and BTAs for new projects located within the STT offering 100% ownership of the existing or new Capacity Resource. Georgia Power did not consider responses for partial unit(s) of an existing Capacity Resource or a non-ownership interest in an existing Capacity Resource, unless Georgia Power already had an interest in the existing Capacity Resource or already owned units on the facility site.

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[1] Renewable Resource: A renewable generating facility that: (i) has or will have a point of interconnection on the Southern Company Transmission System; (ii) must be at least 100 MW in size; and (iii) utilizes a sustainable, perpetual, or renewable fuel.

[2] Southern Company Transmission System: The integrated high voltage electricity transmission systems of the electric utility operating companies of the Southern Companies (Georgia Power Company, Alabama Power Company, and Mississippi Power Company).

[3] Georgia Integrated Transmission System ("Georgia ITS"): An integrated transmission system owned individually by Georgia Power Company, Georgia Transmission Corporation, Municipal Electric Authority of Georgia ("MEAG") Power, and Dalton Utilities and operated to transmit, receive, or distribute electric energy or capacity.

1.2 RFI Process

Georgia Power's RFI was intended solely to solicit information to assist with future resource planning efforts and to gain knowledge of available capacity and generation resources. To solicit the market for the RFI, Georgia Power utilized various internal and external communication channels to notify the market and provide an opportunity to respond to the RFI. The communication channels included: GeorgiaPower.com; industry email distribution to over five hundred (500) Georgia Power contacts from previous RFPs and PPA or business counterparties; social media ad on LinkedIn; Georgia Power News Center article; and targeted media outreach to a group of energy industry publications. GeorgiaPower.com was the main landing page for interested parties to access information about the RFI and to access a link to register for the OnBase website ("RFI Website"). The RFI Website, developed and managed by Georgia Power, was the host platform for interested parties to submit responses. In addition, the RFI Website provided notifications to registered users and a forum for questions and answers regarding the RFI. Georgia Power invited all interested parties to submit a response to the RFI between September 26 and October 24, 2023.

1.3 Market Outreach

As mentioned in Section 1.2 (RFI Process), Georgia Power broadly publicized the RFI by notifying various industry contacts, past RFP participants, entities that expressed interest in past RFPs, and current PPA counterparties. The notification was sent as an "email blast" (see Attachment B). In addition, the Company promoted the RFI on social media through LinkedIn. The social media ad targeted a range of industries and job titles with an overall ad impression, or number of times the ad/post was visible, of 71,718. Please see Tables 1-3-1 and 1-3-2 below for performance metrics of the social media ad on LinkedIn.

Table 1-3-1

Ad Performance	
Clicks[4]	707
Impressions[5]	71,718
Average Click through Rate (CTR)[6]	0.99%
Total Social Actions[7]	1,420
Total Engagement [8]	2,211

Table 1-3-2

Top Industries Reached
Electric Industries
Utilities
Natural Gas Distribution
Top Job Titles Reached
Project Manager
Engineer
Operational Specialist

Overall, throughout the RFI timeframe, there were a total of 1,400 page views of the Georgia Power RFI Website and 921 unique visitors who visited the RFI Website at least once.

[4] Number of clicks the Ad received.
[5] The number of times each post was visible.
[6] The number of clicks divided by impression.
[7] Volume of social engagement ad received. Includes reactions, comments, shares, follow clicks, reaction clicks, and other engagements.
[8] The sum of all social actions, clicks to Landing page, and clicks to LinkedIn Page, both chargeable and free.

2.0 RFI Results

2.1 Summary of Responses

Georgia Power received forty-four (44) unique submissions[9] to the RFI. Of the responses received, thirty-seven (37) were mutually exclusive[10] potential projects. Of these thirty-seven (37) potential projects, five (5) submissions included solar only resources, which did not meet the Capacity Resource requirements of the RFI (see Attachment A), which left thirty-two (32) total qualifying submissions. Of the thirty-two (32) qualifying submissions, only two (2) projects were existing Capacity Resources. These two existing resources are not available as additional resources to the Company in the timeframe addressed in the Company's 2023 IRP Update. The remaining qualifying submissions either indicated new or planned potential projects. RFI participants represented twenty-two (22) different companies with several companies providing multiple responses for different project types and interest in differing contract types.

2.2 Location

Of the qualifying submissions, three (3) submissions indicated potential new or planned projects located in Alabama, with all remaining submissions that listed a project state indicating potential projects within the state of Georgia. Three submissions did not identify a state for the proposed project. See the map in Figure 2-2-1 below.

Figure 2-2-1



2.3 Capacity and Resource Type and Availability

Georgia Power received a robust response to the RFI, with the potential total capacity equaling 6,667 MW. See Table 2-3-1 below for a breakdown of Resource Types and capacity. The RFI results indicated the availability of two (2) existing projects, both thermal Resource Types, while all other qualifying submissions indicated either new or planned projects in various stages of development. RFI participants were primarily interested in a PPA option for ESS with a Renewable Resource, with grid charging capability. More specifically, RFI participants offered projects with battery energy storage

[9] Unique submissions include multiple submissions for the same project offering different contract types (e.g., PPA, APA, BTA).
[10] Mutually exclusive submissions indicate the number of individual projects.

systems paired with solar. Georgia Power received several responses that included an interest to provide Georgia Power resources pursuant to BTAs. Georgia Power did not receive any indication from the RFI participants of any plans to develop new natural gas Capacity Resources.

Table 0-3-1

Breakdown of Resource Types[11]		
Capacity Resource Type	**# of Responses**	**Sum of Capacity (MW)**
ESS Standalone[12]	13	2,695
ESS + solar[13]	12	1,680
ESS Other[14]	4	769
Thermal (CC / CT)	2	1,243
Nuclear Energy	1	280
Total	**32**	**6,667**

As a result of the RFI, Georgia Power collected valuable market information regarding existing or planned Capacity Resources that could commence delivery between the 2026 – 2030 timeframes. As shown in Table 2-3-2, a total of 3,777 MW in Capacity Resources indicated they are available to be constructed within the 2026-2028 timeframe and a total of 2,146 MW indicated they are available within the 2029-2031timeframe. For the 2025-2027 timeframe, those resources are not available to meet the Company's needs as being addressed in the 2023 IRP Update. There is not enough time for an RFP to be conducted, resources to be constructed following certification, and transmission projects to be identified and completed to allow delivery by the end of calendar years 2025, 2026 or 2027. Table 2-3-2 provides a breakdown of the Capacity Resources' indicated availability based on calendar years identified in response to the RFI.

Table 0-3-2

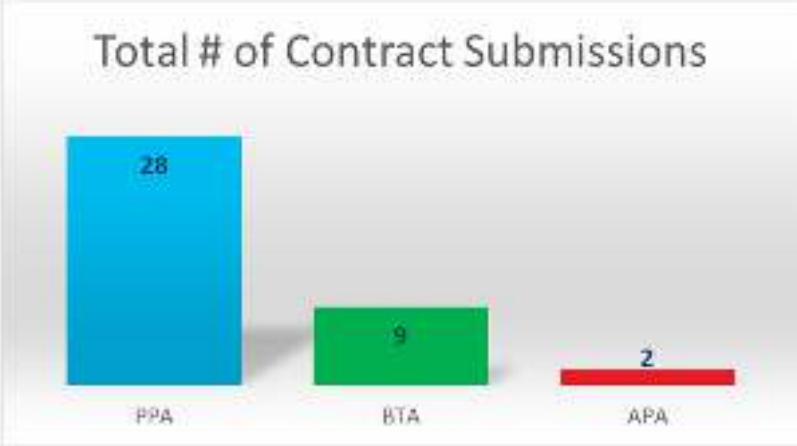
Availability Year	Total
2025	100
2026	1,110
2027	1,495
2028	1,072
2029	420
2030	1,446
2031	280
Not Provided	744
Totals (MW)	**6,667**

[11] As described in Section 2.1, 5 of the submissions included solar only resources, which did not meet the Capacity Resource qualifications of the RFI (See Attachment A).
[12] ESS Standalone generally represents battery energy storage systems as the "ESS" device.
[13] ESS + solar generally represents battery energy storage systems as the "ESS" device.
[14] ESS "Other" includes responses that indicate non-standard storage technologies (e.g., Hydrogen Fuel Cells, Pumped Heat, Compressed Air, and Superconducting Magnetics.

2.4 Contract Type

In response to Georgia Power's request for feedback on offering resources pursuant to the PPA, APA, and BTA contract types, the market responded with interest in all three contract types. Of the thirty-two (32) qualifying submissions, Figure 2-4-1 below shows a breakdown of submissions by contract type.[15] Of note, RFI participants were primarily interested in a PPA option for ESS Standalone or ESS paired with a Renewable Resource, with grid charging capability.

Figure 2-4-1



2.5 Conclusion

The Georgia Power RFI provided the Company with valuable market information to assist with current and future resource planning efforts and facilitate Georgia Power's preparation for the 2029-2031 All-Source RFP. As noted above, no existing resources were identified which could help meet the capacity needs being addressed in the Company's 2023 IRP Update. Of the 6,667 MW of Capacity Resources potentially available in the market, only 1,243 MW of existing capacity was identified and appears to be available during the 2029-2031 timeframe. RFI participants indicated the most interest in providing planned or new ESS Standalone and ESS with a Renewable Resource, with grid charge capability, with significant interest in providing planned or new projects through either a PPA or BTA.

15 Five (5) projects indicated alternate Contract Types.

Attachment A RFI Document

Resource Policy & Planning
241 Ralph McGill Blvd
Bin #10194
Atlanta, GA 30308

September 26, 2023

To: All Interested Parties

Re: Request for Information

Georgia Power Company ("GPC") issues this Request for Information ("RFI") to request information regarding any reliable resource that can meet this RFI's firmness and dispatchability requirements (each a "Capacity Resource"), including, but not limited to: (i) Standalone Energy Storage System ("ESS"), with grid charging capability; (ii) ESS, with a Renewable Resource, with grid charging capability; or (iii) thermal generation (e.g., natural gas, oil fired).

Firmness includes, but is not limited to, Firm Transmission Service as defined in this RFI. Dispatchability includes, but is not limited to, the ability to operate the facility on Automatic Generation Control ("**AGC**") as defined in this RFI or electronically scheduled to adjust the regulation of the facility to deliver energy from the Capacity Resource.

Each Capacity Resource identified must be at least one hundred megawatts (100 MW) in size, and a single resource may not exceed twelve hundred megawatts (1,200 MW). GPC invites all interested parties to submit a response to this RFI.

GPC will manage the OnBase website ("**RFI Website**") as the host platform for this RFI. All responses to this RFI must be submitted through the RFI Website. In addition, the RFI Website will provide notifications to registered users and a forum for questions and answers regarding this RFI.

The RFI Website is located on GPC's website at www.GeorgiaPower.com/rfi.

GPC will accept RFI responses through the RFI Website from **September 26, 2023,** through **October 24, 2023**.

REQUEST FOR INFORMATION

All-Source RFI for Capacity

Background

GPC's 2022 Integrated Resource Plan, as approved by the Georgia Public Service Commission ("**Commission**") in Docket No. 44160 ("**2022 IRP**"), identified a need for additional Capacity Resources. On July 21, 2022, the Commission issued its 2022 IRP Final Order, which amended and approved the Stipulation requiring GPC to conduct an all-

source solicitation to address capacity needs identified by GPC. In the 2022 IRP, GPC estimated approximately 3,723 MW of Capacity Resources would be necessary to satisfy GPC's capacity needs through Winter 2031, but current projections indicate greater capacity needs and needs earlier than the 2029-2031 timeframe. In light of these projections, GPC issues this RFI to collect information on existing or planned Capacity Resources that can meet the firmness and dispatchability requirements set forth in this RFI and commence delivery to GPC between the 2026 – 2030 timeframe.

1.0 Description

GPC seeks identification and associated details regarding any Capacity Resource that can meet the requirements of this RFI that include the following technologies:

(i) Standalone ESS with grid charge capability;
(ii) ESS with a Renewable Resource, with grid charge capability; or
(iii) Thermal generation (e.g., natural gas, oil fired).

Capacity Resources must: (i) provide firm capacity and energy from one or more dedicated generation units; (ii) be fully dispatchable to meet GPC's scheduling instructions; and (iii) be capable of operating on AGC. Firmness includes, but is not limited to, Firm Transmission Service.

The primary objective of this RFI is to provide GPC with market information on the size, cost, technology, availability, and deliverability of Capacity Resources. GPC may consider response information based on economics, risk, and operational and technical attributes using GPC's most recent resource planning assumptions.

Information submitted in response to this RFI will become the property of GPC and will be made available to the Commission and Commission Staff (**"Staff"**). GPC and respondents acknowledge that portions of these responses may contain confidential information. Please note that GPC will protect the confidential nature of responses and will not share publicly information that is designated in writing as confidential. However, respondents understand and acknowledge that confidential information may need to be disclosed by GPC in connection with its regulatory obligations before the Commission. Should this occur, GPC will request confidential treatment of confidential information in accordance with the Commission's rules regarding trade secrets, but GPC makes no assurance or commitment regarding GPC's ability to obtain confidential treatment from the Commission.

THIS IS A REQUEST FOR INFORMATION ONLY. GPC issues this RFI solely to solicit information to assist with future resource planning efforts and to gain knowledge of available capacity and generation resources, along with an estimate of their corresponding costs. This RFI is not a request for proposals ("**RFP**") and is intended solely to inform GPC about available and planned Capacity Resources. After review of the RFI responses, GPC may or may not explore the potential for future procurement options in connection with one or more Capacity Resources at its sole discretion. This RFI must not be construed as an intent, commitment, or promise to contract nor to acquire assets, resources, or products offered. All costs associated with responding to this RFI will be solely at the responding party's expense. Abstaining from responding to this RFI will not preclude participation in any All-Source RFP issued by GPC in the future.

2.0 Scope

GPC requests information regarding existing or planned Capacity Resources that could be procured by GPC through a:

(i) Power Purchase Agreement ("**PPA**");

(ii) Asset Purchase Agreement ("**APA**"); or

(iii) Build Transfer Agreement ("**BTA**")

to commence delivery to GPC during the 2026 – 2030 timeframe. Responses must indicate a commencement of service to GPC on or after November 1, 2026, but no later than November 1, 2030.

Capacity Resources available to commence delivery as early as November 1, 2024, should indicate such availability prior to the requested 2026 – 2030 timeframe.

3.0 Response Instructions

GPC requests the information described below about existing or potential Capacity Resources that might be available to serve GPC customers in Georgia in the requested timeframe. This list is illustrative and not all topics are required to respond to this RFI. Information referenced as *optional* is not required. This RFI uses the following definitions:

- **Automatic Generation Control ("AGC")**: The equipment and capability of a Capacity Resource to automatically adjust the energy quantity output within the applicable balancing authority for the purpose of interchange balancing, and specifically, the Capacity Resource capability of accepting a set point electronically and the automatic adjustment and regulation of the facility's energy production output to meet that set point.
- **Firm Transmission Service**: Transmission service that has: (i) been procured and is held by a seller under the applicable open access transmission tariff on each applicable Electric System for the delivery of energy from the facility to the point of delivery; and (ii) a priority equal to the highest level of firm transmission service available to any person on that Electric System from: (a) COD and through the PPA term; or (b) APA or BTA closing and through the remainder of the facility design life, as applicable.
- **Electric System**: The network of electric generation, transmission, or distribution facilities owned or operated by GPC or other electric utilities.
- **Georgia ITS**: The Georgia Integrated Transmission System, which is owned individually by GPC, Georgia Transmission Corporation, Municipal Electric Authority of Georgia ("**MEAG**") Power, and Dalton Utilities and operated as an integrated transmission system for transmitting, receiving, or distributing electric energy or capacity.
- **Renewable Resource**: A renewable generating facility that: (i) has or will have a point of interconnection ("**POI**") on the Southern Company Transmission System; (ii) must be at least 100 MW in size; and (iii) utilizes a sustainable, perpetual, or renewable fuel.

- **Southern Balancing Authority Area ("SBAA")**: A North American Electric Reliability Corporation ("**NERC**") and Southeastern Electric Reliability Corporation ("**SERC**") recognized balancing authority area. For the avoidance of doubt, the SBAA includes the Southern Transmission Territory.
- **Southern Company Transmission System**: The integrated high voltage electricity transmission systems of the electric utility operating companies of the Southern Companies (GPC, Alabama Power Company, and Mississippi Power Company).
- **Southern Transmission Territory ("STT")**: The Southern Company Transmission System and the Georgia ITS.
- **Standalone ESS:** An ESS that is not paired with a Renewable Resource.

- **<u>General Information Requested:</u>**
    - Facility or Project name
    - Facility location (state, county, city, and transmission interconnection provider)
    - Facility status (Is the project new or existing? Is the project currently in operation or in construction?)
    - Commercial operation date ("**COD**") or projected COD
    - Contingencies associated with facility COD
    - Nameplate capacity of facility and each unit (each Capacity Resource identified must be at least 100 MW in size and no single resource may exceed 1,200 MW)
    - Delivery commencement date (date when existing or projected capacity would be available to GPC) and any contingencies or restrictions on commencement
    - Actual or projected winter and summer capacity (MW) of facility
    - Facility data (generation technology type, vendor, unit type and configuration), and remaining facility life at delivery commencement date (years)
    - Facility or unit efficiency measures: average heat rates at maximum and minimum operating capacities for thermal resources or roundtrip efficiency for ESS (*optional*)
    - Provide any additional summary data regarding facility operating parameters (*optional*)
    - Fuel supply plan (if applicable) (*optional*)

- **<u>Product-Specific Information Requested:</u>**
    - **Consideration of PPAs.** GPC will consider Capacity Resources: (i) for PPAs with a term of 5, 10, 15, or 20 years; and (ii) able to deliver energy in

the STT or at an interface between the STT and another transmission service provider, except that Capacity Resources with ESS must be interconnected to the Southern Company Transmission System.

Please provide indicative pricing for the following:

- Capacity pricing $/kW- month and escalation rate (%)
- First year variable O&M cost ($MWh) and escalation rate (%) (optional)
- First year O&M startup costs ($/start) and escalation rate (%) (optional)
- Fuel pricing (if applicable); GPC toll is preferred but if existing fuel plan, please provide (*optional*)

- **Consideration of APAs.** GPC will consider APA projects for an existing Capacity Resource located within the STT. An APA must offer 100% ownership of the existing Capacity Resource. GPC will not consider responses for partial unit(s) of an existing Capacity Resource or a non-ownership interest in an existing Capacity Resource, unless GPC already has an interest in the existing Capacity Resource or already owns units on the facility site.

  Please provide indicative pricing for the following:

  - Facility total project price $(2023)
  - First year variable O&M cost ($/MWh) and escalation rate (%) (*optional*)
  - First year fixed O&M cost ($/kW) and escalation rate (%) (*optional*)
  - Start-up costs: ($/start) (*optional*)
  - Fuel pricing (if applicable) (*optional*)
  - Projected annual maintenance (weeks per year on average) (*optional*)
  - Historical availability (%) (*optional*)
  - Expected future availability (%, average annual over the remaining useful life) (*optional*)

- **Consideration of BTAs.** GPC will consider BTA facilities for a new Capacity Resource located within the STT. A BTA must offer 100% ownership of the new Capacity Resource.

  Please provide indicative pricing for the following:

  - Facility total project price $(2023)
  - First year variable O&M cost ($/MWh) and escalation rate (%) (*optional*)
  - First year fixed O&M cost ($/kW) and escalation rate (%) (*optional*)
  - Start-up costs: ($/start) (*optional*)

- Fuel pricing (if applicable) (*optional*)
- Projected annual maintenance (weeks per year on average) (*optional*)
- Expected future availability (%, average annual over the useful life) (*optional*)

- **Energy Storage Specifications and Information Requested:**
  - Any ESS Capacity Resource must be able to comply with Southern Company's Transmission's Operating Policy for Inverter Based Electric Storage Resources interconnecting to the Southern Company Transmission System, as appropriate, which may be found at:

    https://www.oasis.oati.com/woa/docs/SOCO/SOCOdocs/Inverter-Based_Electric_Storage_Operating_Policy.pdf.
  - **Standalone ESS.** A response identifying a Standalone ESS Capacity Resource must provide: (i) a description of the ESS; (ii) if offering a PPA, the plan to maintain the ESS to ensure the ESS performs as considered for the PPA term; (iii) the total expected ESS capacity (AC); and (iv) an annual schedule of the expected roundtrip efficiency for the term (PPA responses) or remaining facility design life (APA/BTA responses), as applicable. GPC must have the exclusive right to: (a) discharge; and (b) charge, without penalty, by issuing scheduling instructions. To assure GPC can toll the energy, a Standalone ESS must be interconnected to, and solely charged from, the Southern Company Transmission System. GPC will provide (toll) all the energy required to charge a Standalone ESS, excluding station service.
  - **ESS with Renewable Resource.** In addition to the information required above for Standalone ESS, including grid charge capability, a response identifying an ESS with Renewable Resource must also include: (i) a description of the Renewable Resource (including the generation type of the Renewable Resource (e.g., solar panels, wind turbines)); (ii) the total expected capacity (AC) from the Renewable Resource; and (iii) a profile reflecting the Renewable Resource, to demonstrate the charging contribution of the Renewable Resource for the ESS.

- **Transmission Information Requested:**
  - Existing or likely point(s) of interconnection and interconnection status (explain any current plans or limiting factors).
  - Interconnection or interconnection status must be for a large generator interconnection agreement.
  - As applicable for new resources, please provide the facility interconnection queue number or cluster group number.

- If located outside the SBAA, identify the transmission interconnection provider for the facility (not applicable for any Capacity Resource that: (i) includes ESS; or (ii) is related to an APA or BTA).

- **Project Financing Information Requested (Optional):**
  - Describe any experience financing commercial energy projects. (*optional*)
  - Please provide a description of the existing financing or financing plan for the facility (if applicable). (*optional*)

- **Other Information Requested:**
  - Briefly explain your interest and past experience in supplying energy and capacity, building or operating generation units, or negotiating generation asset sales and purchases. (*optional*)
  - Please indicate if you have entered into any PPA, APA, or BTA with GPC in the past. (*optional*)
  - Any additional information respondent deems relevant, including any optional references.
  - Briefly indicate if respondent is participating in other solicitations that may impact the information provided as part of this RFI.

4.0 Schedule

Event	Date
RFI Issued (RFI Website)	September 26, 2023
Last Day for Submitting Questions (RFI Website)	October 23, 2023
Due Date for Responses (RFI Website)	October 24, 2023, by 12 pm ET

5.0 Communications

RFI Website: The RFI Website is located on GPC's website at www.GeorgiaPower.com/rfi.

Attachment B Email Distribution Communication

Georgia Power

Request for Information Now Open

Georgia Power has issued a Request for Information (RFI) seeking information about available capacity resources to assist with its future resource planning efforts. Our RFI is open for submission now through October 24, 2023.

Eligibility

These capacity resources must meet our firmness and dispatchability requirements in the RFI including the following technologies:

i. Standalone Energy Storage System ("ESS"), with grid charging capability.
ii. ESS, with a Renewable Resource, with grid charging capability
iii. Thermal generation (e.g., natural gas, oil fired).

Each capacity resource identified must be at least 100 megawatts in size, and a single resource may not exceed 1,200 megawatts.

How to participate?

All interested parties are invited to submit a response regarding capability to provide purchase power agreements (PPAs), asset purchase agreements (APAs), or build transfer agreements (BTAs) on our dedicated RFI website between September 26, 2023 and October 24, 2023. The submission portal will also serve as a communication hub where registered users will receive updates and ask questions.

Additional Resources

For more information, visit the Georgia Power 2023 RFI website.

Southern Company

2023 Integrated Resource Plan Update

Resource Mix Study

Supplemental Update

December 2023

SUMMARY

The primary objective of this study is to provide information regarding the development of an optimal least-cost resource mix or generic expansion plan. The generic expansion plan was selected to minimize revenue requirements while complying with reliability criteria, environmental laws, and regulations, considering risk and flexibility. This study provides an informative roadmap for long-term decisions. The results of this Resource Mix Study do not represent commitments but instead represent a generic expansion plan used for planning and to support analyses. Under the framework established in the state of Georgia, when a capacity need is identified through an Integrated Resource Plan ("IRP"), Georgia Power Company ("Georgia Power" or the "Company") will meet such identified need in accordance with the Georgia Public Service Commission ("Commission") rules and will utilize Georgia Power specific information, as appropriate.

This report summarizes the remaining results of the 2023 IRP Update Resource Mix Study, including all scenarios related to uncertainty around long-term fuel cost, carbon pressure, technology cost and performance, and future electricity consumption. A summary of the six outlooks provided are shown in Table 1. The moderate gas, low greenhouse gas pressure view ("MG0") was provided in the initial filing submitted to the Commission on October 27, 2023. The remaining five scenarios will be addressed in this supplemental update. For more information on the assumptions that are included in the Resource Mix Study, please refer to the 2023 IRP Update Technical Appendix Resource Mix Study.

Table 1: Planning Scenarios

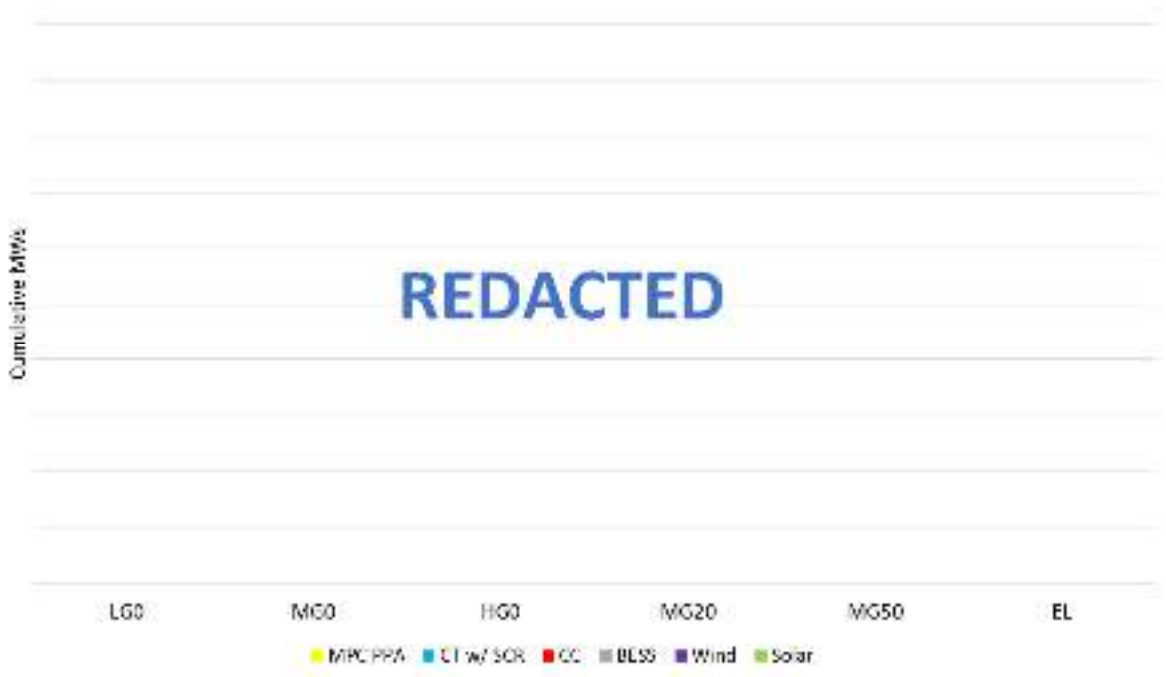
Scenario	GHG pressure view	Technology view	Load view	Fuel view	Label
1	Lower	Tech Portfolio	2023 IRP Update	Lower	LG0
2	Lower	Tech Portfolio	2023 IRP Update	Moderate	MG0
3	Lower	Tech Portfolio	2023 IRP Update + HG0 delta	Higher	HG0
4	Moderate ($20)	IRA 2045	Alt 1	Moderate	MG20
5	Higher ($50)	IRA 2035	Alt 2	Moderate	MG50
6	Emissions Limit	IRA 2035	Alt 2	Moderate	EL

SCENARIO RESULTS

The results of the Resource Mix Study Supplemental Update provide an economically optimum resource addition schedule for the retail operating companies, based on various futures. These results provide an indicative roadmap for long-term decisions based on uncertainties around the future of natural gas prices, environmental pressures, cost and performance of future generating technologies, and future load growth.

The results of the scenario analysis have been broken into two sections, near-term and long-term optimum resource mix. Figure 1, below, shows the cumulative build by 2033 and details the near-term optimal capacity and energy expansion plan for all six scenarios. Based on the scenario results, it can be concluded that additional generation capacity requirements may involve a mixture of natural gas combined cycle, dual-fuel combustion turbine with SCR, solar photovoltaic, wind, battery storage, and a market option, such as the Mississippi Power Company PPA, to help address near term capacity needs.

Figure 1: 2023 IRP Update Expansion Plans – Cumulative Build by 2033

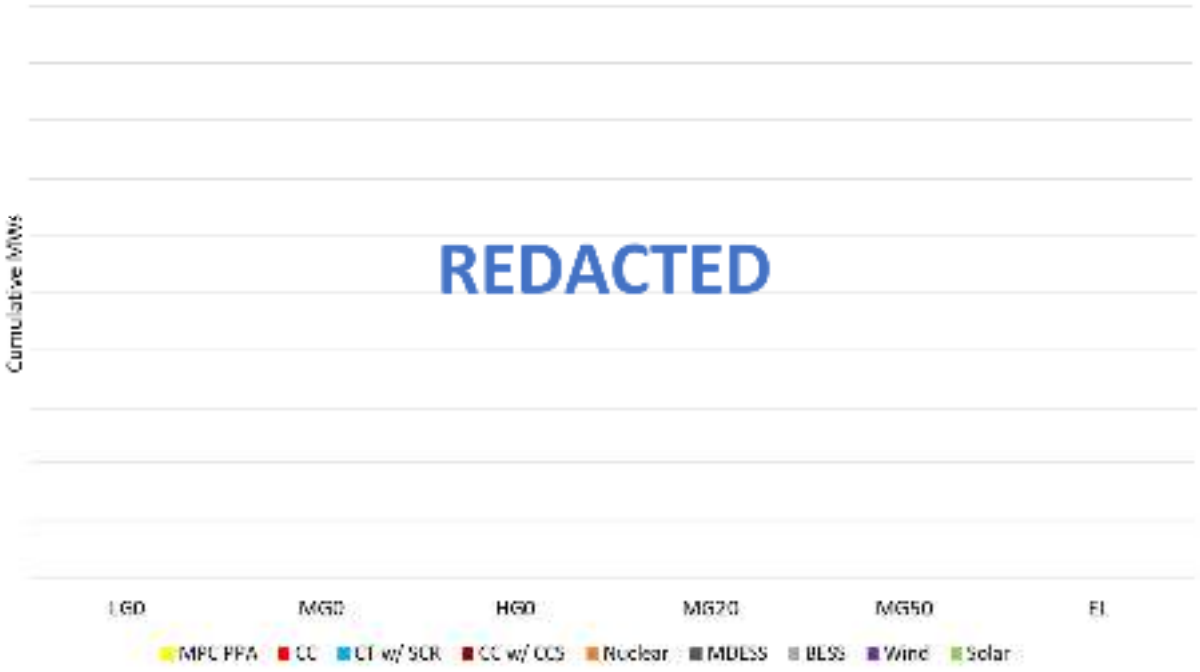


Based on the results of the study, immediate capacity needs are optimally met with a combination of storage, dual-fuel CTs with SCR, and market purchases. In five of six scenarios, storage is selected as early as 2027 and dual-fuel CTs with SCR are selected as early as 2028. All six scenarios include a mix of thermal

units, renewables, storage, and market purchases regardless of variations in input assumptions that make up the scenarios.

A long-term look at the scenario analysis can draw similar conclusions to those reached in the near-term. Figure 2, below, shows the cumulative build by 2043 for all six scenarios. From the scenario analysis, it can be concluded that in addition to the generation technologies selected in the near-term, a mix of nuclear, medium duration storage, and natural gas combined cycle with carbon capture and sequestration may be needed to meet additional generation capacity requirements in the long-term based on various futures.

Figure 2: 2023 IRP Update Expansion Plans – Cumulative Build by 2043



Please see the accompanying Capacity Expansion Plans Supplemental file for a summary of results for all scenarios.

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a copy of the within and foregoing GEORGIA POWER COMPANY'S SUPPLEMENTAL FILING IN DOCKET NO. 55378 upon all parties listed below via electronic service or by hand delivery and addressed as follows:

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This 4th day of December 2023.



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