

September 26, 2023



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

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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

1.0 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.

2.0 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.

3.0 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.

4.0 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 time frame. 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.

- **General Information Requested:**
 - 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*)

• **Product-Specific Information Requested:**

- **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.

5.0 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

6.0 Communications

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