

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

STATE OF GEORGIA

BEFORE THE

GEORGIA PUBLIC SERVICE COMMISSION

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

-and-

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

Georgia Power Company Exhibit 1

(Public Disclosure)

Bound in white binders

ATHENS REPORTING, LLC
490 N. Thomas Street
Athens, Georgia 30601
(770) 225-7663
www.athensreporting.com
Copyright 2025 - Athens Reporting, LLC



Georgia Power Company
Docket Nos. 56002 & 56003
2025 Integrated Resource Plan and 2025 Demand-Side Management Application
STF-PIA Data Request Set No. 3

STF-PIA-3-45

Question:

Refer to Technical Appendix Vol. 2, the 2024 Renewable Integration Study, Appendix C. Please explain why the results of the analysis show a need for incremental load following reserves in overnight hours in order to mitigate violations associated with solar generation.

Response:

In some cases, the model demonstrated a need for higher operating reserves targets during overnight hours to force commitment of resources to ensure availability during daytime hours or to prevent decommitment of resources that have an extended start-up period.

PUBLIC DISCLOSURE

Table 5: B2025 Technology Cost and Performance Summary

Technology	Winter Capacity (MW)	ELCC	Average Heat Rate (Btu/kWh)	Round Trip Efficiency	Fixed Capacity Factor	Overnight Cost (2024\$/kW)	Recurring Fixed Cost ² (2024\$/kW-yr)	Variable O&M (\$/MWh)	Asset Life (Yrs)
Natural Gas Combined Cycle (NGCC)	REDACTED	100%	REDACTED			REDACTED	REDACTED	REDACTED	REDACTED
NGCC with Local CCS	REDACTED	100%	REDACTED			REDACTED	REDACTED	REDACTED	REDACTED
NGCC with Distant CCS	REDACTED	100%	REDACTED			REDACTED	REDACTED	REDACTED	REDACTED
Combustion Turbine with SCR, Oil Winter (CT w SCR)	REDACTED	100%	REDACTED			REDACTED	REDACTED	REDACTED	REDACTED
Solar Photovoltaic (PV) - Single Axis Tracker (SAT)	REDACTED	0%			REDACTED	REDACTED	REDACTED		REDACTED
Onshore Wind Power	REDACTED	35%			REDACTED	REDACTED	REDACTED		REDACTED

² Recurring fixed costs include Fixed O&M, Maintenance Capital, and Natural Gas Firm Transportation.

PUBLIC DISCLOSURE

Technology	Winter Capacity (MW)	ELCC	Average Heat Rate (Btu/kWh)	Round Trip Efficiency	Fixed Capacity Factor	Overnight Cost (2024\$/kW)	Recurring Fixed Cost ² (2024\$/kW-yr)	Variable O&M (\$/MWh)	Asset Life (Yrs)
Lithium-ion Battery Energy Storage System (BESS) - 4 Hr	REDACTED REDACTED	0-3000 MW :95% 3001-6000 MW : 75% 6001-9000 MW : 50% 9001+ MW : 25%		REDACTED		REDACTED	REDACTED	REDACTED	REDACTED
Medium Duration Energy Storage System	REDACTED REDACTED	100%		REDACTED		REDACTED	REDACTED	REDACTED	REDACTED
Nuclear (AP-1000)	REDACTED	100%				REDACTED	REDACTED		REDACTED

**2024 Joint Integrated
Resource Plan of
Louisville Gas and Electric
Company and Kentucky
Utilities Company**



PPL companies

Case No. 2024-00326

Volume III

2024 IRP

Technology Update



PPL companies

Generation Planning & Analysis
October 2024

CONFIDENTIAL INFORMATION REDACTED

Table 3: Fully Dispatchable Resources (2030 Installation; 2030 Dollars)

	SQCT	NGCC	SMR
Summer Capacity (MW) ²	243	645	300
Winter Capacity (MW)	258	660	300
Heat Rate (MMBtu/MWh) ³	9.5	6.3	9.2
Capital Cost (\$/kW) ⁴	1,636	2,121	9,765
Fixed O&M (\$/kW-yr) ⁵	6.9	7.8	166
Firm Gas Cost (\$/kW-yr) ⁶	19	15	N/A
Variable O&M (\$/MWh) ⁷	N/A	0.23	3.17
Start Cost (\$/Start) ⁸		N/A	N/A
Hourly Operating Cost (\$/hour) ⁹	N/A		N/A
Fuel Cost (\$/MWh) ¹⁰			13.45
Investment Tax Credit ¹¹	N/A	N/A	40%
Earliest In-Service Year ¹²	2030	2030	2039

² Capacity is the net installed capacity ("NCAP").

³ Heat rate is the full load net heat rate.

⁴ Capital cost is the overnight capital expenditure required to achieve commercial operation. Cost of financing is modeled through construction profiles for each resource type.

⁵ Fixed operation and maintenance costs are operation and maintenance costs that do not vary with generation output. For SQCT and NGCC resources, fixed O&M includes fixed costs for a long-term service agreement ("LISA").

⁶ Firm gas transportation costs are costs associated with reserving firm gas-line capacity.

⁷ Variable operation and maintenance costs are operation and maintenance costs incurred on a per-unit energy basis.

⁸ Start costs are start-based variable LTSA costs for SQCT.

⁹ Hourly operating costs are hour-based variable LTSA costs for NGCC.

¹⁰ Fuel cost is the product of the unit's heat rate and the assumed cost of fuel.

¹¹ In accordance with the current tax credits, the Companies assumed nuclear SMR resources that are in-service in year year 2039 would begin construction by year 2033 and receive the full credit; resources that are in-service in year 2041 2040 would begin construction in 2034 and receive 75% of the credit; resources that are in-service in year 2042 or later would begin construction in 2035 and receive 50% of the credit; and resources that are in-service in year 2042 or later would begin construction in 2036 or later and not receive any tax credit. Further cost reductions may be possible by utilizing existing sites.

¹² Earliest in-service year is the first year the Companies expect a resource can be feasibly built based on permitting and construction timelines as well as lead times for electrical equipment such as generator step up transformers.

DESC IRP Stakeholder Advisory Group Session XVI

V. 2025 IRP Update



Supply-Side Inputs Candidate Resource Options

Preliminary - Still a Work In Progress

Available Resources	Capital Cost 2024 IRP Update (\$/kW)	Capital Cost 2025 IRP Update (\$/kW)	Capacity (MW)	Source Of Data
New 2x1 CC Greenfield	1,726	2,849	1309	Dominion Energy Project Construction Group
New 1x1 CC Greenfield	1,562	2,453	665	Dominion Energy Project Construction Group
New (3) 1x1 Combined Cycle 50% Shared Brownfield	NA	Pending	998	Dominion Energy Project Construction Group
New 1X0 Adv-Class Frame CT Greenfield	NA	1,494	450	Dominion Energy Project Construction Group
New 2000 F-Class CT Greenfield	1,471	1,441	402	Dominion Energy Project Construction Group
New 4X0 Aero CT Greenfield	NA	3,265	230	Dominion Energy Project Construction Group
New 2000 Aero CT Greenfield	2,484	4,372	305	Dominion Energy Project Construction Group
New 1x0 F-Class CT Urquhart CT #8 Brownfield	NA	Pending	301	Dominion Energy Project Construction Group
New 1X0 Aero CT Bushy Park CT #2 Brownfield	NA	Pending	52	Dominion Energy Project Construction Group
New Small Modular Reactor	12,335	12,381	274	NREL 2024 A3B
New Solar *	1,375	1,630	300	NREL 2024 A3B
New Solar PPA *	1,375	1,630	100	NREL 2024 A3B
New Solar Plus Storage *	NA	2,590	300	NREL 2024 A3B
New Battery 4 hour *	1,784	2,036	300	NREL 2024 A3B
New Battery 8 hour *	NA	4,079	300	NREL 2024 A3B
New Offshore Wind *	4,135	4,498	300	NREL 2024 A3B

* Includes Grid Interconnection



1.5.1 MODEL OVERVIEW

1.5.1.1 Known Project Inputs

For each large load project the Company has evaluated and included in the 2023 IRP Update Load Forecast, the following information is provided:

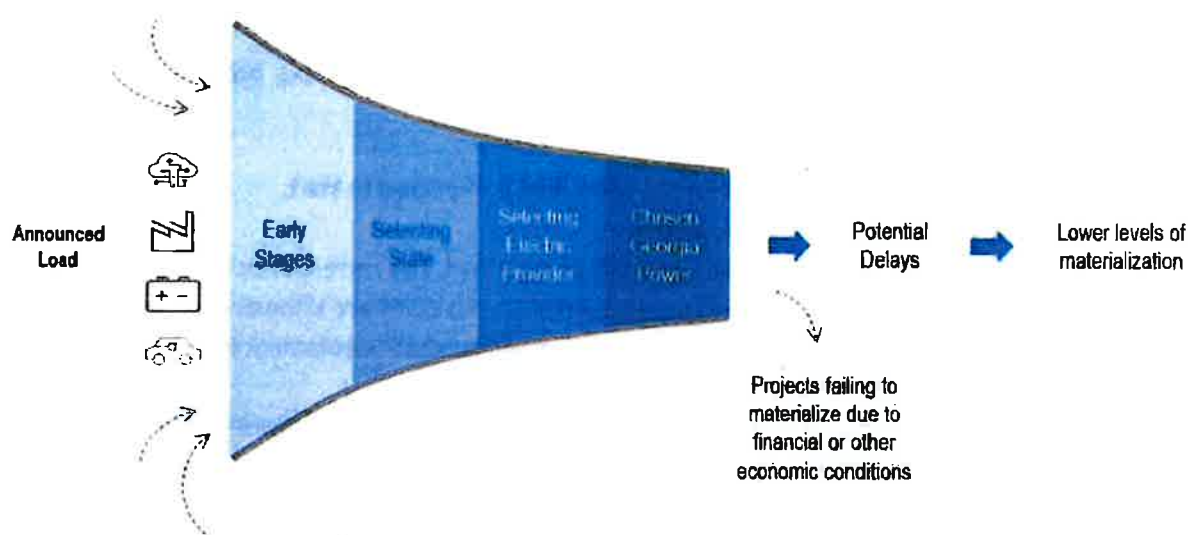
- **Commercial Operation Date:** When the initial load is expected to start.
- **Ramp-Up:** A year-by-year load trajectory.
- **Announced Load:** The design capacity for the project load. This corresponds to the maximum load of the ramp-up schedule provided by each customer. The Company's Power Delivery organization uses this information to properly size the facilities and purchase equipment to serve the new load.
- **Class:** Industrial or Commercial.
- **Segment:** This criterion corresponds to the particular segment of a business within a customer class, such as cryptocurrency, datacenter, warehouse, battery manufacturing, chemicals, and solar.

1.5.1.2 Modeling Project Uncertainty

Each large load project contains multiple dimensions of uncertainty that must be considered and analyzed. The first element of uncertainty to consider is whether the potential customers will choose to locate in Georgia. A customer may ultimately end up choosing a different state as the location of a project despite initial indications of interest in Georgia. If a large load customer elects to locate in Georgia, there is still uncertainty due to the competitive nature of the bidding process for large load customers among electric service providers in the state, and a customer may choose an electric service provider other than Georgia Power. There is even some uncertainty once a customer selects Georgia Power as its electric service provider, as the project could fail to materialize due to unforeseen circumstances such as financial or other economic conditions. In addition, based on Georgia Power's experience, the load announced by a customer is only an estimate of its metered load, which can materialize at a lower level than that at the time of the customer's initial announcement. Finally, the commercial operation date of a project can be delayed, thus causing load to materialize later than initially expected. Figure 1.5.1.2-1 below illustrates the Company's process and sequencing for the evaluation of uncertainties related to large load projects.



Figure 1.5.1.2-1: Sequencing of Large Load and Sources of Uncertainty



1.5.1.3 Project Success

The Company uses a probabilistic approach to account for the uncertainties described in the previous section to determine the likelihood of success or failure of an individual project. The success of a project requires each of the following three events:

- i. Georgia is chosen as the location of the project.
- ii. Georgia Power is chosen as the electric service provider for the project.
- iii. The project reaches commercial operation after a contract has been signed with Georgia Power.

1.5.1.4 State Selection

Customers often evaluate sites in multiple states before finalizing the location of a project. Mathematically, state selection can be treated as a binary event, with one (1) assigned for customers that select Georgia and zero (0) for customers that select a different state. For those customers contemplating Georgia as a place for doing business, a probability (referred to as P1) can be assigned for the likelihood of state selection. Likelihood can be estimated based on a historical selection rate that is calculated based on the number of projects that chose Georgia versus the number of projects that did not.

1.5.1.5 Electric Service Provider

Whether a customer chooses Georgia Power as its electric service provider can also be treated as a binary event. The probability of Georgia Power being chosen as the provider (referred to as P2) is determined by the Company based on factors such as competition from other electric service providers, an existing relationship with a customer, and the progress of discussions with a customer.

1.5.1.6 Project Reaching COD

The probability of projects reaching commercial operation (referred to as P3) is determined by reviewing the number of projects that reached commercial operation versus the total number of projects Georgia Power was selected to serve.

For a new large load project to be considered successful, all three of the above events (i.e., state selection, Georgia Power being chosen as electric service provider, and the project reaching commercial operation) must occur. In other words, project success or failure is a binary event that is reflected by the probability formula $P=P1*P2*P3$.

1.5.1.7 Announced Load vs. Metered Load

To account for the potential difference between the metered load being served, as measured at the customer's meter, versus the load announced by the customer, the ratio (in %) between metered load and announced load is treated as a range. In the absence of actual historical data, the Company identifies minimum and maximum values for this range, as well as a most likely outcome. For example, in the case of data centers, the range is between REDACTED% and REDACTED% of the customer's announced load, with a most likely outcome of REDACTED%. Mathematically, this is modeled with a triangular distribution (see Section 1.5.3 for more technical details).

Table 1.5.1.7-1 below demonstrates the parameter inputs for modeling the metered load compared to the announced load, based on the customer class and segment.

Table 1.5.1.7-1: Specifications of Triangular Distributions for Metered vs. Announced

<u>Class</u>	<u>Segment</u>	<u>Low</u>	<u>Mid</u>	<u>High</u>
Commercial	Cryptocurrency	REDACTED	REDACTED	REDACTED
	Datacenter	REDACTED	REDACTED	REDACTED
	Miscellaneous	REDACTED	REDACTED	REDACTED
	Warehouse	REDACTED	REDACTED	REDACTED
	Distribution	REDACTED	REDACTED	REDACTED
Industrial	All Segments	REDACTED	REDACTED	REDACTED

1.5.1.8 Commercial Operations Date Delay

Projects often experience delays in their commercial operation date. The expected delays are shown in Table 1.5.1.8-1 and can range between REDACTED REDACTED REDACTED REDACTED REDACTED. The parameter inputs for modeling the probability of delays in commercial operation are based on the Company's estimates.

Table 1.5.1.8-1: Specifications of Triangular Distributions for Delay

<u>Class</u>	<u>Segment</u>	<u>Low</u>	<u>Mid</u>	<u>High</u>
Commercial	All segments	REDACTED	REDACTED	REDACTED
Industrial	All Segments	REDACTED	REDACTED	REDACTED

1.5.2 MODELING THE PORTFOLIO

The portfolio of large load projects being assessed by the Company consists of projects in numerous phases of development, ranging from early stages, such as the state selection or site selection phases, to those under construction and projected to be served by the Company. This creates multiple dimensions of uncertainty for each project that requires a Monte Carlo simulation model to quantify a range of expected load to serve.

Monte Carlo simulation is a mathematical technique that is used to estimate the possible outcomes of a portfolio with uncertain events. Unlike a normal forecasting model, Monte Carlo simulation predicts a set of outcomes based on an estimated range of values versus a set of fixed input values. The simulation assigns random values to input variables with uncertainty based on probability distributions such as triangular distributions mentioned in Section 1.5.1.7 and calculates an outcome. It then repeats the process over and over (at least thousands of times typically), each time using a different set of random inputs, to produce a large number of outcomes.

1.5.2.1 Model Implementation

The model described in this appendix is implemented in Excel with a third-party add-in called @Risk. @Risk allows incorporating probability distributions into an Excel spreadsheet so that Monte Carlo simulation and analysis can be done to track the range of potential outcomes and calculate a wide array of statistics (average, standard deviation, percentiles, etc.).

For each project in the model, there are three random numbers being drawn for success/failure, metered/announced ratio, and delay in COD from the distributions described in Section 1.5.1. For a particular draw, if the success/failure random number is 0, or failure, the load of the project is 0 and the project is excluded from the portfolio. If the success/failure random number is 1, or success, the announced load ramp-up gets scaled by the metered/announced ratio random number and then shifted according to the timing of the ramp-up by the number of months determined by the delay in COD random number. Finally, this adjusted and shifted ramp-up is aggregated year by year into the portfolio level.

1.5.2.2 Simulation Results

The procedure described in section 1.5.2.1 is repeated 100,000 times. Then, these 100,000 load iterations get ranked for each year in order to calculate load percentiles, which helps the Company to understand the load range and compare the likelihood of load outcomes for the portfolio. The table below shows the

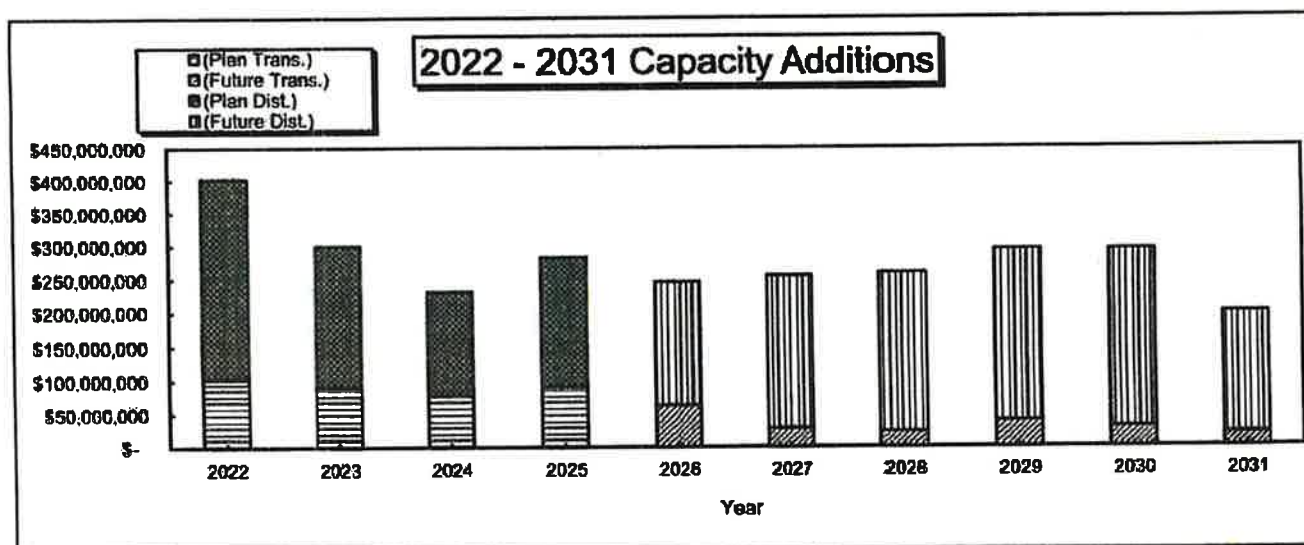
PUBLIC DISCLOSURE

2025 - 2034 T & D CAPACITY ADDITION EXPANSION PLAN

		NETWORK TRANSMISSION		LOAD SERVING DISTRIBUTION		TOTALS
		(Plan Trans.)	(Future Trans.)	(Plan Dist.)	(Future Dist.)	
1	2025	\$ 419,995,051		\$ 146,977,135		\$ 566,972,186
2	2026	\$ 623,126,504		\$ 252,011,693		\$ 875,138,197
3	2027	\$ 1,092,359,906		\$ 311,996,427		\$ 1,404,356,333
4	2028	\$ 1,518,597,793		\$ 324,134,863		\$ 1,842,732,656
5	2029	\$ 1,441,978,038		\$ 340,979,541		\$ 1,782,957,580
6	2030		\$ 1,492,447,270		\$ 352,913,825	\$ 1,845,361,095
7	2031		\$ 1,544,682,924		\$ 365,265,809	\$ 1,909,948,733
8	2032		\$ 1,598,746,826		\$ 378,050,112	\$ 1,976,796,939
9	2033		\$ 1,654,702,965		\$ 391,281,866	\$ 2,045,984,832
10	2034		\$ 1,712,617,569		\$ 404,976,732	\$ 2,117,594,301
	Total	\$ 5,096,057,293	\$ 8,003,197,555	\$ 1,376,099,659	\$ 1,892,488,345	\$ 16,367,842,851

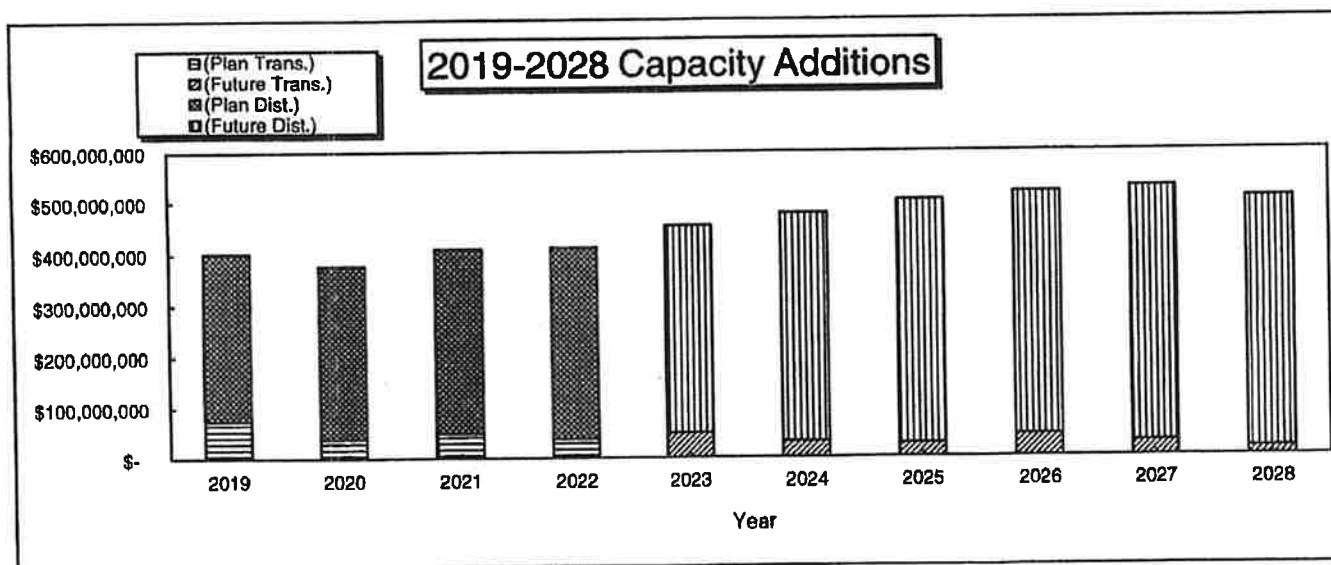
2022 - 2031 T & D CAPACITY ADDITION EXPANSION PLAN

		NETWORK TRANSMISSION		LOAD SERVING DISTRIBUTION		TOTALS
		(Plan Trans.)	(Future Trans.)	(Plan Dist.)	(Future Dist.)	
1	2022	\$ 103,018,676		\$ 300,103,172		\$ 403,121,848
2	2023	\$ 90,077,906		\$ 210,358,739		\$ 300,436,645
3	2024	\$ 78,455,319		\$ 153,686,775		\$ 232,142,094
4	2025	\$ 91,326,534		\$ 191,642,746		\$ 282,969,280
5	2026		\$ 62,772,213		\$ 183,809,275	\$ 246,581,488
6	2027		\$ 28,679,634		\$ 226,544,338	\$ 255,223,972
7	2028		\$ 23,459,897		\$ 235,615,058	\$ 259,074,955
8	2029		\$ 39,310,102		\$ 254,523,052	\$ 293,833,154
9	2030		\$ 29,903,889		\$ 263,838,233	\$ 293,742,122
10	2031		\$ 20,238,864		\$ 178,753,740	\$ 198,992,604
Total		\$ 362,878,435	\$ 204,364,800	\$ 855,791,432	\$1,343,083,695	\$2,766,118,162



**POWER DELIVERY CAPACITY ADDITION EXPANSION PLAN
2019-2028**

		NETWORK		LOAD SERVING		
		TRANSMISSION		DISTRIBUTION		TOTALS
		(Plan Trans.)	(Future Trans.)	(Plan Dist.)	(Future Dist.)	
1	2019	\$ 75,088,456		\$ 326,244,241		\$ 401,332,696
2	2020	\$ 39,912,449		\$ 337,208,113		\$ 377,120,562
3	2021	\$ 49,388,938		\$ 360,284,747		\$ 409,673,685
4	2022	\$ 38,360,558		\$ 373,371,778		\$ 411,732,335
5	2023		\$ 49,698,352		\$ 403,460,230	\$ 453,158,582
6	2024		\$ 31,461,448		\$ 445,342,741	\$ 476,804,189
7	2025		\$ 26,563,823		\$ 475,165,483	\$ 501,729,307
8	2026		\$ 43,593,866		\$ 472,690,172	\$ 516,284,038
9	2027		\$ 28,997,821		\$ 497,192,398	\$ 526,190,220
10	2028		\$ 16,128,940		\$ 488,318,325	\$ 504,447,265
		\$ 202,750,401	\$ 196,444,251	\$1,397,108,879	\$2,782,169,349	\$4,578,472,879



PUBLIC DISCLOSURE

CRITICAL ENERGY INFRASTRUCTURE INFORMATION - CONFIDENTIAL. This data is confidential CEII and is subject to Regulation by CFR Sec. 38.3.113. Recipient should be aware that disclosure of this material and its contents shall be handled in accordance with CEII procedures. Any and all duplications of this data must contain this notification. This document contains non-public transmission information and in accordance with FERC policy, should not be disclosed to Marketing Function employees.

A. Georgia ITS 10 Year Expansion Plan Projects List

Table 2 Georgia ITS 10 Year Plan Project List below briefly lists projects in the 10 Year Expansion Plan (details for each project are in later sections).

Table 2 Georgia ITS 10 Year Plan Project List

Zone	Year	TEAMS Number	Project Name	Need Date 2024	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Totals
219	2025	19523	SAV: CC - HYUNDAI MOTORS SAVANNAH AKA. PROJECT EA	1/1/2025	SAV	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2025	18670	GTC: BANKS CROSSING - POND FORK 115 KV	5/1/2025	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2025	18492	MITCHELL - NORTH TIFTON 230KV RECONDUCTOR	5/1/2025	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
206	2025	19676	ADAMSVILLE - JACK MCDONOUGH 230KV LINE REBUILD	6/1/2025	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2025	18800	ECHECONNEE-WELLSTON 115KV REBUILD	6/1/2025	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
211	2025	19187	GRID - BREMEN - CROOKED CREEK (APC) 115 KV PROJECT	6/1/2025	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2025	18153	GTC: BONAIRE PRI- ECHECONNEE 115 KV PARTIAL REBUILD	6/1/2025	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
218	2025	20342	GTC: CAMDEN INDUSTRIAL PARK 230/115KV NEW SUBSTATION	6/1/2025	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2025	20590	GTC: EATONTON PRIMARY - LICK CREEK 115KV LINE SWITCH REPLACEMENT	6/1/2025	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
218	2025	11821	JESUP - LUDOWICI PRIMARY 115KV REBUILD	6/1/2025	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
206	2025	13753	MEAG: ALCOVY ROAD - SKC 115 KV RECONDUCTOR	6/1/2025	MEAG	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2025	13787	MEAG: AULTMAN ROAD - BONAIRE PRIMARY 115 KV REBUILD	6/1/2025	MEAG	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
202	2025	20464	NORCROSS 230KV BUS 1-3 SERIES BUS TIE BREAKER INSTALLATION	6/1/2025	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED

Page 7 of 304

2024 GA ITS Ten-Year Plan (2025-2034)



PUBLIC DISCLOSURE

CRITICAL ENERGY INFRASTRUCTURE INFORMATION - CONFIDENTIAL. This data is confidential CEII and is subject to Regulation by CFR Sec. 388.113. Recipient should be aware that disclosure of this material and its contents shall be handled in accordance with CEII procedures. Any and all duplications of this data must contain this notification. This document contains non-public transmission information and in accordance with FERC policy, should not be disclosed to Marketing Function employees.

Zone	Year	TEAMS Number	Project Name	Need Date 2024	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Totals
216	2025	19631	PINE GROVE PRIMARY 115 KV DUAL STAGE CAPACITOR BANK	6/1/2025	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
219	2025	20067	SAV: DEPTFORD - MAGNOLIA 115KV RECONDUCTOR	6/1/2025	SAV	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2025	20466	SMART VALVE INSTALLATION	6/1/2025	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
218	2025	21046	THALMANN AND COLERAIN 230 KV LINE RELAY PANEL UPGRADES	6/1/2025	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
211	2025	20431	VILLA RICA LOW SIDE BREAKER	6/1/2025	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
218	2025	20684	CAMDEN INDUSTRIAL PARK (GPC)	6/1/2025	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
213	2025	18774	GTC: HEARD COUNTY - TENASKA 500KV (SECOND LINE)	12/1/2025	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
206	2025	18889	JEFFERSON STREET#3 - NORTHWEST (WHITE) 115 KV RECONDUCTOR	12/1/2025	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2025	20326	ANTHONY SHOALS STATCOM SYSTEM	12/31/2025	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
211	2025	20152	CC - CASS PINE- HILL VIEW 230 KV LINE- CC IMPROVEMENTS	12/31/2025	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
211	2025	20175	CC - PROJECT CHRONOS- SK/HYUNDAI	12/31/2025	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
215	2025	20010	GTC: ANTHONY SHOALS - WASHINGTON 115 KV LINE REBUILD	12/31/2025	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
219	2025	17075	SAV: LITTLE OGEECHEE 230- 115KV: RELAY MODERNIZATION	12/31/2025	SAV	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2026	18691	GTC: LIZARD LOPE - WESTOVER 115 KV NEW LINE	3/1/2026	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2026	20018	CC - QTS FAYETTEVILLE TRANSMISSION NEEDS	4/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED

PUBLIC DISCLOSURE

CRITICAL ENERGY INFRASTRUCTURE INFORMATION - CONFIDENTIAL. This data is confidential CEII and is subject to Regulation by CFR Sec. 383.113. Recipient should be aware that disclosure of this material and its contents shall be handled in accordance with CEII procedures. Any and all duplications of this data must contain this notification. This document contains non-public transmission information and in accordance with FERC policy, should not be disclosed to Marketing Function employees.

Zone	Year	TEAMS Number	Project Name	Need Date 2024	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Totals
208	2026	19597	ADAMSVILLE - BUZZARD ROOST 230KV REBUILD AND JUMPER UPGRADE	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2026	18960	BLANKETS CREEK - WOODSTOCK 115KV LINE REBUILD	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2026	20243	CC - GARRETT ROAD SWITCHING STATION - TRAE LANE	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2026	20216	CC - STONEWALL TELL ROAD (TA REALTY)	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
211	2026	18679	DU: EAST DALTON - OOSTANAULA 115KV REBUILD	6/1/2026	DU	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2026	20491	EAST POINT RELAY MODERNIZATION	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
215	2026	16007	FENWICK STREET - SAND BAR FERRY 115KV (RECONDUCTOR/REBUILD)	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
213	2026	20516	GOAT ROCK 230KV SWITCH, JUMPER, & LINE TRAP REPLACEMENT	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2026	19618	GORDON-N DUBLIN 115KV (GORDON-ENGL MCI J) REBUILD	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
206	2026	21139	GRADY - MORROW (WHITE) 115KV REBUILD	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
206	2026	20474	GRADY 230/115KV RELAY MODERNIZATION	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2026	19706	GRID - GAINESVILLE #2 EQUIPMENT REPLACEMENT	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
206	2026	21137	GTC: CONYERS - CORNISH MOUNTAIN 115KV LINE UPGRADE	6/1/2026	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
213	2026	19334	GTC: LAGRANGE - NORTH OPELIKA 230 KV	6/1/2026	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2026	20015	GTC: MORNING HORNET 2ND 230/115 KV BANK & THUMBS UP 115KV TL	6/1/2026	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED

Page 9 of 304

2024 GA ITS Ten-Year Plan (2025-2034)

PUBLIC DISCLOSURE

CRITICAL ENERGY INFRASTRUCTURE INFORMATION - CONFIDENTIAL: This data is confidential CEII and is subject to Regulation by CFR Sec. 388.113. Recipient should be aware that disclosure of this material and its contents shall be handled in accordance with CEII procedures. Any and all duplications of this data must contain this notification. This document contains non-public transmission information and in accordance with FERC policy, should not be disclosed to Marketing Function employees.

Zone	Year	TEAMS Number	Project Name	Need Date 2024	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Totals
214	2026	19999	GTC: ROBINS SPRING BUS REPLACEMENT	6/1/2026	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2026	20001	GTC: ROBINS SPRING CAPACITOR BANK INSTALLATION	6/1/2026	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
211	2026	19636	HAMMOND - WEISS DAM 115KV LINE REBUILD	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2026	20512	KATHLEEN AREA IMPROVEMENTS	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
206	2026	20490	KLONDIKE RELAY MODERNIZATION	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
213	2026	19598	MEAG: DRESDEN - LAGRANGE PRIMARY 230KV UPGRADE & JUMPERS	6/1/2026	MEAG	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
215	2026	20270	MEAG: RAY PLACE RD - WASHINGTON #3	6/1/2026	MEAG	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
215	2026	20271	MEAG: RAY PLACE RD - WASHINGTON (WASHINGTON 3)	6/1/2026	MEAG	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2026	20300	MORROW 115KV RELAY UPGRADE	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2026	18690	PALMYRA REACTOR REMOVAL	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
219	2026	20066	SAV: BOULEVARD - DEPTFORD 115KV RECONDUCTOR	6/1/2026	SAV	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
219	2026	19966	SAV: CC - BIG OGEECHEE 500/230KV (CC NETWORK IMPROVEMENTS)	6/1/2026	SAV	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
219	2026	20277	SAV: MCINTOSH - PURRYSBURG 230KV REACTORS	6/1/2026	SAV	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
206	2026	20489	SCOTTDAL REACTOR MODERNIZATION	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2026	17900	UNION CITY - YATES 230 KV WHITE LINE REBUILD	4/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED

PUBLIC DISCLOSURE

CRITICAL ENERGY INFRASTRUCTURE INFORMATION - CONFIDENTIAL. This data is confidential CEII and is subject to Regulation by CFR Sec. 398.113. Recipient should be aware that disclosure of this material and its contents shall be handled in accordance with CEII procedures. Any and all duplications of this data must contain this notification. This document contains non-public transmission information and in accordance with FERC policy, should not be disclosed to Marketing Function employees.

Zone	Year	TEAMS Number	Project Name	Need Date 2024	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Totals
208	2026	20691	UNION CITY - YATES 230KV (WHITE) SWITCH AND TRAP REPLACEMENT	6/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2026	20223	CC - PROJECT PAYTON BAINBRIDGE	6/30/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2026	21022	OHARA BREAKER REPLACEMENT	10/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2026	20668	DRESDEN LINE PROTECTIVE RELAYING	12/1/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
213	2026	20874	GTC: BARNESVILLE PRIMARY-BARNESVILLE #1 115KV RECONDUCTOR	12/1/2026	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2026	20273	GTC: DRESDEN 500KV BUS EXPANSION	12/1/2026	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2026	20002	GTC: GORDON - SANDERSVILLE #1 115KV LINE REBUILD	12/1/2026	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
211	2026	20151	CC - CASS PINE 230/25 NEW SUB - QCELLS - CC IMPROVEMENTS	12/31/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
206	2026	19287	GRADY-WEST END 115KV REBUILD	12/31/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2026	19363	MORROW - MOUNTAIN VIEW 115 KV REBUILD	12/31/2026	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
213	2027	18832	MEAG: FORTSON 230KV SUBSTATION MODERNIZATION	1/13/2027	MEAG	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2027	20509	CC - EMBLEM RIVERSIDE CUSTOMER SUB (FLEXENTIAL)	3/1/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
211	2027	19635	GTC: HICKORY LEVEL - VILLARICA 230KV LINE RECONDUCTOR	5/1/2027	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2027	19601	MORROW - YATES COMMON 115KV LINE UPGRADE	5/1/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
211	2027	15879	POSSUM BRANCH - YATES COMMON 115KV REBUILD (YATES TO CLEM)	5/1/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED

PUBLIC DISCLOSURE

CRITICAL ENERGY INFRASTRUCTURE INFORMATION - CONFIDENTIAL This data is confidential CEII and is subject to Regulation by CFR Sec. 363.113. Recipient should be aware that disclosure of this material and its contents shall be handled in accordance with CEII procedures. Any and all duplications of this data must contain this notification. This document contains non-public transmission information and in accordance with FERC policy, should not be disclosed to Marketing Function employees.

Zone	Year	TEAMS Number	Project Name	Need Date 2024	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Totals
208	2027	20771	CC - GULLATT ROAD TRANSMISSION IMPROVEMENTS	6/1/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2027	18736	CC - MICROSOFT - SHUGART (CC006)	6/1/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2027	20781	CC - SUMMER LAKE - VILLA RICA 230KV REBUILD (CC IMPROVMENT)	6/1/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2027	20736	CC - TA REALTY ELLENWOOD NETWORK IMPROVEMENTS	6/1/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2027	20234	DOYLE - LG&E MONROE 230KV - JACKS CREEK LOOP IN	6/1/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2027	20858	GTC - ADAMSVILLE - BUZZARD ROOST 230KV REBUILD	6/1/2027	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2027	20776	GTC - DOUGLASVILLE - VILLA RICA 230KV REBUILD (CC IMPROVEMENT)	6/1/2027	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2027	20778	GTC - DOYLE - WINDER PRIMARY 230KV LINE JUMPER REPLACEMENT	6/1/2027	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2027	19358	GTC - EAST MOULTRIE - HIGHWAY 112 230 KV LINE	6/1/2027	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2027	09662	GTC - EAST WALTON 500/230KV PROJECT	6/1/2027	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2027	20505	GTC - GARRETT RD - V. RICA 230KV LINE RECONDUCTOR (CC NET IM)	6/1/2027	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2027	19622	GTC - RIDDLEVILLE BUS REPLACEMENT	6/1/2027	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
206	2027	19606	GTC - SKC 115KV BUS AND JUMPER REPLACEMENT	6/1/2027	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2027	20020	GTC - SOUTH HAZLEHURST - NEW LACY 230KV LINE	6/1/2027	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2027	20506	GTC - SWITCH WAY - THORNTON ROAD 230KV LINE REBUILD	6/1/2027	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
218	2027	18668	JESUP - OFFERMAN 115KV REBUILD	6/1/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED

PUBLIC DISCLOSURE

CRITICAL ENERGY INFRASTRUCTURE INFORMATION - CONFIDENTIAL. This data is confidential CEII and is subject to Regulation by CFR Sec. 388.113. Recipient should be aware that disclosure of this material and its contents shall be handled in accordance with CEII procedures. Any and all duplications of this data must contain this notification. This document contains non-public transmission information and in accordance with FERC policy, should not be disclosed to Marketing Function employees.

Zone	Year	TEAMS Number	Project Name	Need Date 2024	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Totals
202	2027	10143	LAWRENCEVILLE - WINDER 115KV LINE REBUILD	6/1/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
202	2027	10481	LAWRENCEVILLE - WINDER PRIMARY 230KV LINE REBUILD	6/1/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
215	2027	20264	MEAG: RAY PLACE RD - WARRENTON PRIMARY	6/1/2027	MEAG	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2027	19248	SANDERSVILLE #1 - WADLEY PRL 115KV REBUILD/RECONDUCTOR	6/1/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
219	2027	20785	SAV: GOSHEN (SAV) - KRAFT 115KV LINE REBUILD	6/1/2027	SAV	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
219	2027	20065	SAV: GOSHEN (SAV) - MCINTOSH 115KV LINE REBUILD	6/1/2027	SAV	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2027	20717	CC - TOMOCHICHI 500/230KV SOLUTION (CC NETWORK IMPROVEMENTS)	7/15/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2027	18573	GRID - ARKWRIGHT - LLOYD SHOALS 115KV	7/30/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2027	20591	GTC: EATONTON PRIMARY (035591) - LICK CREEK 115KV REBUILD	12/1/2027	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2027	17977	ATHENA - EAST WATKINSVILLE 115 KV (REBUILD)	12/31/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
211	2027	20150	CC - HILL VIEW & GRASSY HOLLOW SUB - CC IMPROVEMENTS	12/31/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
211	2027	20024	DYER ROAD - EAST ROANOKE 115KV (REBUILD)	12/31/2027	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2028	19997	AULTMAN ROAD-PERRY 115KV LINE REBUILD	6/1/2028	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2028	20797	CC - EAST VILLA RICA AREA SWITCHING STATION (CC IMPROVEMENT)	6/1/2028	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
211	2028	20774	CC - VILLA RICA UPGRADES (CC NETWORK IMPROVEMENTS)	6/1/2028	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED

PUBLIC DISCLOSURE

CRITICAL ENERGY INFRASTRUCTURE INFORMATION - CONFIDENTIAL: This data is confidential CEII and is subject to Regulation by CFR Sec. 388.113. Recipient should be aware that disclosure of this material and its contents shall be handled in accordance with CEII procedures. Any and all duplications of this data must contain this notification. This document contains non-public transmission information and in accordance with FERC policy, should not be disclosed to Marketing Function employees.

Zone	Year	TEAMS Number	Project Name	Need Date 2024	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Totals
214	2028	21048	FITZGERALD - PITTS 115 KV LINE REBUILD	6/1/2028	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
213	2028	08458	GTC: BARNESVILLE - SOUTH GRIFFIN 230KV PROJECT	6/1/2028	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2028	20503	GTC: BARNEYVILLE - EAST MOULTRIE 115KV NEW LINE	6/1/2028	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2028	20873	GTC: BONAIRE PRIMARY 500/230KV XFMR REPLCMNT & RELAY MOD	6/1/2028	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2028	19992	GTC: BOSTWICK - EAST SOCIAL CIRCLE 230KV RECONDUCTOR	6/1/2028	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
206	2028	20777	JACK MCDONOUGH - NORTHWEST (BLACK) 230KV RECONDUCTOR	6/1/2028	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2028	19629	MEAG: BRUMBLEY CREEK - SOUTH BAINBRIDGE 115KV REBUILD	6/1/2028	MEAG	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2028	19630	MEAG: THOMASVILLE 230/115KV AUTOBANK REPLACEMENT	6/1/2028	MEAG	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
213	2028	20482	PITTMAN ROAD - WEST POINT DAM (USA) 115KV REBUILD	6/1/2028	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2028	20656	PLANT YATES BREAKER AND HALF STATION	6/1/2028	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
219	2028	20783	SAV: COLEMAN - DEAN FOREST 115KV LINE REBUILD	6/1/2028	SAV	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
219	2028	20407	SAV: MAGNOLIA - TRUMAN PARKWAY 115KV REBUILD	6/1/2028	SAV	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2028	21069	SMART VALVES AT EAST VILLA RICA SWITCHING STATION	6/1/2028	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2028	20768	SOUTH MACON 115KV BUSES 1 & 2 REPLACEMENT	6/1/2028	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2028	20274	UNION CITY - YATES 230KV (BLACK) LINE REBUILD	6/1/2028	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
213	2028	13166	FIRST AVENUE - NORTH COLUMBUS 115KV LINE REBUILD	12/1/2028	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED

Page 14 of 304

PUBLIC DISCLOSURE

CRITICAL ENERGY INFRASTRUCTURE INFORMATION - CONFIDENTIAL. This data is confidential CEII and is subject to Regulation by CFR Sec. 388.113. Recipient should be aware that disclosure of this material and its contents shall be handled in accordance with CEII procedures. Any and all duplications of this data must contain this notification. This document contains non-public transmission information and in accordance with FERC policy, should not be disclosed to Marketing Function employees.

Zone	Year	TEAMS Number	Project Name	Need Date 2024	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Totals
214	2028	20586	GTC: NORTH DUBLIN 230/115KV TRANSFORMERS AND BUS-TIE BREAKER	12/1/2028	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2029	21062	ASHLEY PARK-WANSLEY 500KV	6/1/2029	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2029	10222	BLAKELY PRIMARY - HUCKLEBERRY 115KV REBUILD	6/1/2029	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2029	21047	BROADWAY - ECHECONNIE 115 KV LINE REBUILD	6/1/2029	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
213	2029	16887	BUTLER - THOMASTON 230KV LINE CONVERSION	6/1/2029	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2029	21036	BUZZARD ROOST - FACTORY SHOALS 230KV NEW LINE	6/1/2029	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
206	2029	21142	CONYERS - KLONDIKE 230 KV SECOND LINE	6/1/2029	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
206	2029	21138	GLENWOOD SPRINGS - PORTERDALE PRIMARY 230KV LINE SWITCH REPL	6/1/2029	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
213	2029	21112	GTC: BARNESVILLE PRIMARY - THOMASTON 230KV	6/1/2029	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
202	2029	10814	GTC: BAY CREEK 230/115KV SECOND AUTO TRANSFORMER	6/1/2029	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2029	21140	GTC: BONAIRE PRIMARY - EASTMAN PRIMARY 115 KV LINE REBUILD	6/1/2029	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2029	20849	GTC: CLIFTONDALE - LINE CREEK 230KV LINE	6/1/2029	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
213	2029	19950	GTC: DRESDEN - TALBOT 500KV LINE	6/1/2029	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
202	2029	20760	GTC: HOPEWELL 230/115 KV BANK A	6/1/2029	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2029	21123	GTC: TENASKA - WANSLEY 500KV NEW LINE	6/1/2029	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
206	2029	21141	LLOYD SHOALS - PORTERDALE PRIMARY 115KV REBUILD	6/1/2029	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2029	20285	LOWER RIVER - WEBB (APC) 115KV RECONDUCTOR	6/1/2029	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED

2024 GA ITS Ten-Year Plan (2025-2034)

Page 15 of 304

PUBLIC DISCLOSURE

CRITICAL ENERGY INFRASTRUCTURE INFORMATION - CONFIDENTIAL: This data is confidential CEII and is subject to Regulation by CFR Sec. 388.113. Recipient should be aware that disclosure of this material and its contents shall be handled in accordance with CEII procedures. Any and all duplications of this data must contain this notification. This document contains non-public transmission information and in accordance with FERC policy, should not be disclosed to Marketing Function employees.

Zone	Year	TEAMS Number	Project Name	Need Date 2024	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Totals
212	2029	19621	MCEVER ROAD - SHOAL CREEK 115KV REBUILD	6/1/2029	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
218	2029	20346	MCMANUS - WEST BRUNSWICK 115KV REBUILD	6/1/2029	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2029	17706	MEAG: AULTMAN ROAD - FORT VALLEY #1 115 KV REBUILD	6/1/2029	MEAG	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2029	11051	MEAG: SLAPPEY DRIVE - WESTOVER 115KV LINE REBUILD	6/1/2029	MEAG	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
202	2029	20757	NORCROSS - NORTH DRUID HILLS 115KV REBUILD	6/1/2029	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
219	2029	21006	SAV: BOULEVARD - MAGNOLIA 115 KV LINE REBUILD	6/1/2029	SAV	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
219	2029	21023	SAV: DEAN FOREST - LITTLE OGEECHEE 230 KV REBUILD	6/1/2029	SAV	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
219	2029	20989	SAV: RICE HOPE NEW AUTO TRANSFORMER	6/1/2029	SAV	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2029	13628	SOUTH BAINBRIDGE - SINAI (FPL) 115KV LINE RECONDUCTOR	6/1/2029	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
202	2029	20248	BAY CREEK - CONYERS 230KV REBUILD	12/31/2029	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
211	2030	21129	ANNISTON - HAMMOND 230KV LINE	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2030	20764	ATKINSON - NORTHSIDE DRIVE 115KV REBUILD	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2030	20761	ATKINSON - NORTHWEST 115KV REBUILD	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2030	21130	CC - NORTH GEORGIA DATA NETWORK UPGRADES	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2030	10478	CORNELIA - TALLULAH LODGE 115KV REBUILD	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2030	18669	DU: DAWSON CROSSING - NELSON (WHITE) 115 KV REBUILD	6/1/2030	DU	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2030	21097	EAST POINT - TRIBUTARY 230KV REBUILD	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED

Page 16 of 304

PUBLIC DISCLOSURE

CRITICAL ENERGY INFRASTRUCTURE INFORMATION - CONFIDENTIAL. This data is confidential CEII and is subject to Regulation by CFR Sec. 383.113. Recipient should be aware that disclosure of this material and its contents shall be handled in accordance with CEII procedures. Any and all duplications of this data must contain this notification. This document contains non-public transmission information and in accordance with FERC policy, should not be disclosed to Marketing Function employees.

Zone	Year	TEAMS Number	Project Name	Need Date 2024	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Totals
208	2030	20480	EAST POINT - UNION CITY 230KV BLACK LINE RECONDUCTOR	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2030	19627	ECHECONNIE-WELLSTON 115KV LINE REBUILD	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2030	21063	FARLEY (APC)-TAEWELL 500KV	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2030	12120	GAINESVILLE #2 - MCEVER ROAD 115 KV REBUILD	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2030	20298	GLENWOOD SPRINGS - LAKE OCONEE 115KV LINE REBUILD	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
213	2030	21128	GOAT ROCK REACTORS INSTALLATION	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
215	2030	19996	GOLDENS CREEK - WARRENTON PRIMARY 230KV REBUILD	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2030	20428	GORDON-SANDERSVILLE #1 115KV LINE REBUILD (DEEPSTEP-SAND #6)	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
215	2030	21116	GOSHEN AREA STRATEGIC SOLUTION	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2030	21073	GTC: BIG SMARR - TOMOCHICHI 500KV	6/1/2030	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2030	21014	GTC: BUZZARD ROOST - CAVENDER DRIVE 230KV NEW LINE	6/1/2030	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2030	21013	GTC: CAVENDER DRIVE 500/230KV AUTOBANK	6/1/2030	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2030	20375	GTC: EAST WATKINSVILLE 230 KV STATION MODIFICATION	6/1/2030	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2030	21111	GTC: HARTWELL DAM - HARTWELL ENERGY 230KV SERIES REACTORS	6/1/2030	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2030	21113	GTC: HARTWELL ENERGY - MIDDLE FORK 230KV LINE	6/1/2030	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2030	21131	GTC: POND FORK - MIDWAY 115KV LINE	6/1/2030	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED

PUBLIC DISCLOSURE

CRITICAL ENERGY INFRASTRUCTURE INFORMATION - CONFIDENTIAL. This data is confidential CEII and is subject to Regulation by CFR Sec. 383.113. Recipient should be aware that disclosure of this material and its contents shall be handled in accordance with CEII procedures. Any and all duplications of this data must contain this notification. This document contains non-public transmission information and in accordance with FERC policy, should not be disclosed to Marketing Function employees.

Zone	Year	TEAMS Number	Project Name	Need Date 2024	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Totals
214	2030	21077	GTC: ROCKVILLE - TIGER CREEK - WARTHEN 500KV LINES	6/1/2030	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2030	21076	GTC: TALLBOT #2 - TAZEWEEL 500KV LINE	6/1/2030	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2030	21094	GTC: TIGER CREEK - ROCKVILLE-NORTH SPA 230KV PROJECT	6/1/2030	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2030	20789	JEFFERSON ROAD - WINDER PRIMARY 115KV REBUILD	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2030	20284	KETTLE CREEK PRIMARY - PINE GROVE PRIMARY 115KV REBUILD	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
215	2030	21118	MEAG: ATHENA - WARRENTON 230KV CONVERSION	6/1/2030	MEAG	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2030	20857	NEW CAVENDER DRIVE - TRIBUTARY 230KV LINE	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2030	21093	NORTH SPA 230KV STRATEGIC PROJECT	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2030	19995	TALLULAH LODGE - TOCCOA 115 KV REBUILD	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
201	2030	21098	TRIBUTARY - THORNTON RD 230KV REBUILD	6/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
213	2030	20160	THOMASTON 230 NEW BUILD SUB	11/1/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2030	18848	BAINBRIDGE TRANSMISSION: EAST RIVER ROAD, EAST BAINBRIDGE	12/31/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2030	19626	GLENWOOD SPRINGS 115KV CAP BANK	12/31/2030	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
208	2031	20690	EAST POINT - UNION CITY (WHITE) 230KV REBUILD	5/1/2031	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
202	2031	19632	AVERY - HOPEWELL 115KV RECONDUCTOR	6/1/2031	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
211	2031	10811	BOWEN #10 500/230KV AUTOBANK REPLACEMENT	6/1/2031	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
215	2031	20756	HATCH - WADLEY 500 KV LINE STRATEGIC PROJECT	6/1/2031	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED

PUBLIC DISCLOSURE

CRITICAL ENERGY INFRASTRUCTURE INFORMATION - CONFIDENTIAL. This data is confidential CEII and is subject to Regulation by CFR Sec. 383.113. Recipient should be aware that disclosure of this material and its contents shall be handled in accordance with CEII procedures. Any and all duplications of this data must contain this notification. This document contains non-public transmission information and in accordance with FERC policy, should not be disclosed to Marketing Function employees.

Zone	Year	TEAMS Number	Project Name	Need Date 2024	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Totals
214	2031	21099	MEAG: PIO NONO 230/115KV AREA SOLUTION	6/1/2031	MEAG	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
213	2032	21114	MEAG: SOUTH GRIFFIN 230/115KV BANK #5	6/1/2032	MEAG	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
219	2032	20784	SAV: COLEMAN - MELDRIM 115KV LINE REBUILD	6/1/2032	SAV	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
214	2033	20767	ARKWRIGHT BUS AND JUMPER REPLACEMENT	6/1/2033	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
202	2033	20758	BAY CREEK - CONYERS 230KV LIMITING ELEMENT REPLACEMENT	6/1/2033	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
215	2033	20793	EVANS PRIMARY - THURMOND DAM (USA) #5 115KV REBUILD	6/1/2033	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
215	2033	20794	EVANS PRIMARY - THURMOND DAM (USA) #6 115KV REBUILD	6/1/2033	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2033	12217	GTC: CENTER PRIMARY - CLARKSBORO 230 KV REBUILD	6/1/2033	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2033	20773	GTC: CLARKSBORO - WINDER PRIMARY 230KV REBUILD	6/1/2033	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2033	12147	GTC: EAST SOCIAL CIRCLE - SNELLVILLE 230KV EQUIPMENT UPGRADE	6/1/2033	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2033	21075	GTC: EAST WALTON - MIDDLE FORK 500KV	6/1/2033	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2033	20791	GTC: SHOAL CREEK - SOUTH HALL 230KV REBUILD	6/1/2033	GTC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2033	21053	MCEVER ROAD - SHOAL CREEK 115KV REBUILD PHASE III	6/1/2033	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2033	09661	MCGRAU FORD - MIDDLE FORK 500KV LINE PROJECT	6/1/2033	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
219	2033	20796	SAV: MELDRIM BANK D REPLACEMENT	6/1/2033	SAV	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
215	2033	14222	THOMSON PRIMARY 230/115KV SECOND TRANSFORMER	6/1/2033	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED

PUBLIC DISCLOSURE

CRITICAL ENERGY INFRASTRUCTURE INFORMATION - CONFIDENTIAL. This data is confidential CEII and is subject to Regulation by CFR Sec. 388.113. Recipient should be aware that disclosure of this material and its contents shall be handled in accordance with CEII procedures. Any and all duplications of this data must contain this notification. This document contains non-public transmission information and in accordance with FERC policy, should not be disclosed to Marketing Function employees.

Zone	Year	TEAMS Number	Project Name	Need Date 2024	Project Sponsor	Estimated Cost - GPC	Estimated Cost - GTC	Estimated Cost - MEAG	Estimated Cost - DU	Totals
202	2033	20759	WINDER PRIMARY 230KV BUS 1-2 PARALLEL BUS-TIE INSTALLATION	6/1/2033	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
216	2033	10487	PINE GROVE PRIMARY - WEST VALDOSTA 115 KV RECONDUCTOR	12/31/2033	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
212	2034	18700	DAWSON CROSSING - GAINESVILLE #1 115 KV	6/1/2034	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
219	2034	20787	SAV: LITTLE OGEECHEE 230/115KV BANK REPLACEMENT	6/1/2034	SAV	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
215	2034	17993	EVANS PRIMARY - THOMSON PRIMARY 115KV REBUILD	12/31/2034	GPC	REDACTED	REDACTED	REDACTED	REDACTED	REDACTED
Total						REDACTED	REDACTED	REDACTED	REDACTED	REDACTED

**Dominion Energy South Carolina
Planned Transmission Projects \$2M and above Total
5 Year Budget**

**Queensboro - Ft Johnson 115 kV & Queensboro-Bayfront 115kV
(Queensboro-James Island Sect)**

Project ID
6807 B

Project Description
Replace the Queensboro – Ft Johnson 115 kV Line and structures as they have reached the end of life.

Project Need
This project is required due to address end of life issues.

Project Status
In Progress

Planned In-Service Date
12/31/23

Estimated Project Cost						
Previous	2024	2025	2026	2027	2028	Total*
\$4,604,301	\$800,000	\$0	\$0	\$0	\$0	\$5,404,301

*Total Estimated Amount applied to 2024 Rate Base Calculation



Appendix C Transmission Plan Major Project Listings – Reliability Projects



Project ID	Reliability Project (Previously in Plan)	Transmission Owner	Status ¹	Projected In-Service Date	Estimated Cost (\$M) ²	Initiating Study Type ⁴
E190037	Havelock 230/115 kV Banks 1 & 2, Replace	DEP	In-Service	7/23/2024	8	TPL
DFYF00152	Castle Hayne-Folkstone 230 kV Line – Porters Neck 230 kV Tap Line, Construct	DEP	In-Service	8/19/2024	38	TPL
W190286	Wateree 100 kV Line (Great Falls-Wateree), Upgrade	DEC	In-Service	12/1/2024	12	TPL
E190030	Craggy-Enka 230 kV Line, Construct	DEP	Underway	6/1/2025	93	TPL
F170628C	Rocky Mount – Battleboro 115 kV Line, Reconductor	DEP	Underway	6/1/2025	13	AS
W220125	Breaker Station on Motley 100 kV Line for New Customer, Construct	DEC	Underway	6/1/2025	16	New Loads
NP09175	Wilkes 230/100 kV Tie Station, Construct	DEC	Underway	6/1/2025	63	TPL
W200379	Island Creek 44 kV, Conversion	DEC	Underway	12/1/2025	14	New Loads
W190242	Cokesbury 100 kV Line (Coronaca-Hodges), Upgrade	DEC	Underway	12/1/2025	29	TPL
W200126	South Point 100 kV Switching Station, Construct	DEC	Underway	12/1/2025	103	TPL
E210073	Carthage (Hill Crest) 230/115 kV Substation, Construct	DEP	Underway	6/1/2026	33	TPL
E220112	Asheville Plant – Oteen 115 kV West Line (Arden), Construct	DEP	Underway	6/1/2026	12	TPL
W200030	Wylie 100 kV Line (Wylie-Arrowood Retail), Upgrade	DEC	Underway	6/1/2026	14	TPL
E200161	Castle Hayne-Folkstone 115 kV Line, Rebuild	DEP	Underway	12/1/2026	89	TPL
F170824H	Weatherspoon – LOF 115 kV Line (Maxton-Pembroke), Reconductor	DEP	Underway	12/1/2026	19	TPL
E230059	Sumter – SCEG Eastover 115 kV Line (Kings Hwy – Shaw Field – Eastover), Reconductor	DEP	Underway	12/1/2026	27	TPL
W200042	Sevier 100 kV Line (East Greenville-Verdae Retail Tap), Upgrade	DEC	Underway	12/1/2026	20	TPL
W200039	Coronaca 100 kV Line (Coronaca-Creto), Upgrade and Construct	DEC	Underway	12/1/2026	41	TPL
W200599	Davidson River 100 kV Line (North Greenville-Marietta), Upgrade	DEC	Planned	6/1/2027	19	TPL

Project ID	Reliability Project (Previously in Plan)	Transmission Owner	Status ¹	Projected In-Service Date	Estimated Cost (\$M) ²	Initiating Study Type ⁴
W230145	Hands Mill Switching Station, Construct	DEC	Underway	6/1/2027	67	New Loads
W200031	Monroe 100 kV Line (Lancaster-Monroe), Upgrade	DEC	Underway	6/1/2027	69	TPL
W220367	Boyd Switching Station, Construct	DEC	Underway	6/1/2027	94	New Loads
W230245	Messer 230 kV Line (Dixon School Rd-Customer), Construct	DEC	Planned	12/1/2027	41	New Loads
W220209	Lyle Creek Switching Station, Construct	DEC	Underway	12/1/2027	112	New Loads
W220368	Haas Creek Switching Station, Construct	DEC	Underway	12/1/2027	91	New Loads
E220380	Asheboro – Siler City 115 kV Line, Reconductor	DEP	Underway	6/1/2028	41	New Loads
W170306	North Greenville 230 kV Tie Station, Upgrade	DEC	Underway	12/1/2028	34	TPL
W200061	Page and Guilford 100 kV Lines (Greensboro-North Greensboro), Upgrade	DEC	Planned	6/1/2029	30	TPL
W200172	Morning Star 230 kV Tie Station, Upgrade	DEC	Planned	6/1/2031	39	TPL
W200590	Crab Orchard 100 kV Line (Harrisburg-Amity), Upgrade	DEC	Planned	6/1/2033	15	TPL
W200262	Sandy Ridge 230 kV Line (Newport-Morning Star), Upgrade	DEC	Planned	6/1/2033	37	TPL
W200595	Westport 230 kV Line (McGuire-Marshall), Upgrade	DEC	Conceptual	6/1/2035	53	TPL
CTPCDEP01	Durham – RTP 230 kV Line, Reconductor	DEP	Conceptual	TBD	TBD	TPL
E210145	Holly Ridge North 115 kV Switching Station, Construct	DEP	Conceptual	TBD	12	TPL
CTPCDEP02	Weatherspoon – LOF 115 kV Line (Weatherspoon- LREMC West Lumberton), Reconductor	DEP	Deferred	TBD	27	TPL
CTPCDEP03	Falls – Franklinton (Franklinton – Franklinton Novo 115 kV Feeder), Construct	DEP	Conceptual	TBD	16	TPL
W220559	Concord 100 kV Line (Concord-Concord City Del 3), Upgrade	DEC	Conceptual	TBD	2.8	TPL
W230087	Kennedy 100 kV Line (Orchard-Newton Tap), Upgrade	DEC	Conceptual	TBD	6	TPL

Project ID	Reliability Project (Previously in Plan)	Transmission Owner	Status ¹	Projected In-Service Date	Estimated Cost (\$M) ²	Initiating Study Type ⁴
W220507	Cabarus 100 kV Line (Wildcat-Westfork), Upgrade	DEC	Conceptual	TBD	4.3	TPL
W200412	Skybrook 100 kV Line (Winecoff-Eastfield Retail), Upgrade	DEC	Conceptual	TBD	15	TPL
CTPCDEC01	Beulah 100 kV Line (Lookout-EnergyUnited Del 18), Upgrade	DEC	Conceptual	TBD	21	TPL
W230358	Hinkle 100 kV Line (Stamey-Statesville), Upgrade	DEC	Conceptual	TBD	7	TPL
W200173	Terrell 44 kV Line, Conversion	DEC	Conceptual	TBD	26	TPL
W200149	Reidsville and Wolf Creek 100 kV Lines (Dan River-Sadler), Upgrade	DEC	Conceptual	TBD	37	TPL
CTPCDEC02	Harley 100 kV Line (Tiger-Campobello), Upgrade	DEC	Conceptual	TBD	45	TPL
W230384	Oliver 230 kV Line (Marshall-Boyd), Upgrade	DEC	Conceptual	TBD	17	TPL
W200162	Dan River 100 kV Line (Dan River-North Greensboro), Upgrade	DEC	Conceptual	TBD	89	TPL
	Brush Creek, Construct STATCOM	DEP	Removed			New Loads
	Method – Milburnie 115 kV North Line, Reconductor	DEP	Removed			TPL
	Rockingham - West End 230 kV West Line, Reconductor	DEP	Removed			TPL
Subtotal	Reliability Project (Previously in Plan)				\$1,711.1	

Project ID	Reliability Project (New to Plan >= \$5M)	Transmission Owner	Status ¹	Projected In-Service Date	Estimated Cost (\$M) ²	Initiating Study Type ⁴
E210150	Havelock 230 kV Substation, Upgrade	DEP	Underway	12/1/2025	7	TPL
W200010	Cherokee 100 kV Line (Peach Valley-Enola Retail), Upgrade	DEC	Planned	6/1/2026	8	TPL
W210192	Earl 100 kV Line (Customer Tap-Customer Tap), Upgrade	DEC	Planned	6/1/2026	12	TPL
E190092	Greenville - VEPCO Everetts 230 kV Line, Reconductor	DEP	Underway	12/1/2026	30	AS
W230158	Nanny Mountain 1 44 kV Line (Structure 73.0 – Customer Delivery), Upgrade and Partial Conversion to 100 kV	DEC	Planned	12/1/2026	7	TPL
W200148	Pinewood 100 kV Line (Lawsons Fork-Una Retail), Upgrade	DEC	Planned	6/1/2027	10	TPL
E240135	Sumter - SCEG Eastover 115 kV Line (Gold Kist Tap-Kings Hwy Section), Reconductor	DEP	Underway	12/1/2027	10	TPL
W230276	Shelby 230/100/44 kV Tie, Upgrade	DEC	Planned	6/1/2028	14	TPL
W200187	Harrisburg 230/100/44 kV Tie Station, Upgrade	DEC	Planned	12/1/2028	13	TPL
W230389	Sycamore B/W 100 kV (Longview-Lyle Creek), Upgrade and Network	DEC	Planned	6/1/2029	8	TPL
W200116	Hodges 230/100/44 kV Tie, Upgrade	DEC	Planned	6/1/2029	41	TPL
W200150	Troutman 44 kV Line, Upgrade and Partial conversion to 100 kV [Modification to 0110 in 2023 Plan - Additional Scope]	DEC	Planned	6/1/2029	45	TPL
W200413	Tiger Tie Autotransformer #5 (230/100 kV) Upgrade	DEC	Conceptual	TBD	7	TPL
W200144	Oak Hollow Switching Station, Construct	DEC	Conceptual	TBD	7	TPL
W200120	Dairyhill 100 kV Line (Shelby-CUSTOMER Tap), Upgrade	DEC	Conceptual	TBD	11	TPL
W230402	Ashe Street 100 kV Line (Durham-Ashe Street), Upgrade	DEC	Conceptual	TBD	12	TPL
W200582	Bethania and Shattalon 100 kV Lines (Rural Hall-Shattalon), Upgrade	DEC	Conceptual	TBD	15	TPL
W200034	Panther 100 kV Lines (Parkwood Tie-E Durham Tie), Upgrade and Network to E Durham Tie [Modification to 0096 in 2023 Plan - Splitting into Two Projects]	DEC	Conceptual	TBD	56	TPL
Subtotal	Reliability Project (New to Plan >= \$5M)				\$313	

Project ID	Reliability Project (New to Plan <= \$5M)	Transmission Owner	Status ¹	Projected In-Service Date	Estimated Cost (\$M) ²	Initiating Study Type ³
E210078	Fayetteville 230/115 kV Bank #1, Upgrade 115 kV Disconnect Switches, Wave Traps, and CT Ratios	DEP	Underway	12/1/2024	3	TPL
E210227	Sutton – Castle Hayne 230 kV Line (Sutton - Wilmington Ninth & Orange), Upgrade Line Switch	DEP	Underway	12/1/2024	1	TPL
E210081	Richmond 500 kV Substation, Upgrade 230 kV Wave Trap, Disconnect Switches, and CT Ratio for the Laurinburg-Richmond 230 kV Line	DEP	Underway	6/1/2025	1.1	TPL
E220096	Sutton-Wallace 230 kV Line, (Crooked Run Solar-Wallace) Raise Section and Increase CT Ratios and Relay Settings at Wallace 230 kV Substation	DEP	Underway	6/1/2025	0.8	TPL
E230041	Richmond 500/230 kV Banks #1 & #2, Upgrade CT Ratios	DEP	Underway	6/1/2025	3.7	TSR
E190052	Jacksonville - Jacksonville City 115 kV East Line, Upgrade CT Ratio at Jacksonville	DEP	Underway	6/1/2025	0.2	TPL
W210382	Kennedy 100 kV Line, RAS (Grid Enhancing Technology) to Avoid Overloads on the Kennedy Lines	DEC	Underway	6/1/2025	0.8	TPL
W220516	Davidson River 100 kV Lines, RAS (Grid Enhancing Technology) to Avoid Overload on the Davidsons River Lines	DEC	Underway	6/1/2025	1	TPL
E230061	Henderson 230/115 kV Banks #1 & #2, Upgrade CT Ratios and Relay Settings	DEP	Underway	12/1/2025	2.9	TPL
E220408	Vanderbilt - West Asheville 115 kV Line, Upgrade 115 kV CB and Switches	DEP	Underway	12/1/2025	2	TPL
W220537	Ashe Street Switching Station, RAS (Grid Enhancing Technology) to Avoid Overloads on Delta 100 kV Line [Originally Called <i>Delta 100 kV Line</i> , RAS in November Solutions]	DEC	Underway	12/1/2025	0.5	TPL
W230368	Mooresville Tie, RAS (Grid Enhancing Technology) to Avoid Overloads on Timber and Sherrill 100 kV Lines [Originally Called <i>Timber 100 kV Line and Sherrill 100 kV Line</i> , RAS in November Solutions]	DEC	Underway	12/1/2025	0.6	TPL

Project ID	Reliability Project (New to Plan <= \$5M)	Transmission Owner	Status ¹	Projected In-Service Date	Estimated Cost (\$M) ²	Initiating Study Type ⁴
W220539	Batte 100 kV Line, RAS (Grid Enhancing Technology) to Avoid Overloads on Batte Lines	DEC	Underway	12/1/2025	1.5	TPL
W220053	Shattalon Switching Station, RAS (Grid Enhancing Technology) to Avoid Overload on Bethania and Shattalon 100 kV Lines [Originally Called Bethania and Shattalon 100 kV Lines, RAS in November Solutions]	DEC	Underway	6/1/2027	0.8	TPL
E240197	Brunswick 1 - Delco 230 kV East Line (Brunswick 1 - Southport Tap), Upgrade Switch; Reconductor Brunswick 1-Southport Tap Section	DEP	Underway	6/1/2028	3.6	TPL
E220343	Goldsboro 115 kV Switching Station, Upgrade CT Ratio and Relay Settings on the Goldsboro-Wommack 115 kV Line	DEP	Underway	6/1/2028	0.2	TPL
E240188	Brunswick 2 - Delco 230 kV West Line (Brunswick 2 – BEMC Southport), Raise Section	DEP	Underway	6/1/2029	1.9	TPL
W240008	Pinewood 100 kV Line, RAS (Grid Enhancing Technology) to Avoid Overloads on Pinewood Lines	DEC	Conceptual	TBD	0.1	TPL
W240295	Lookout Tie, RAS (Grid Enhancing Technology) to Avoid Overloads on Beulah and Hickory 100 kV Lines [Originally Called Beulah 100 kV Line, RAS in November Solutions]	DEC	Planned	12/1/2030	0.1	TPL
W240278	Central 230/100/44 kV Tie, Upgrade, Add Redundant Relaying	DEC	Planned	6/1/2031	0.7	TPL
W180359	States CTCC Bus Line 4, Construct	DEC	Planned	6/1/2031	3.8	TPL
W200592	Crest St 100 kV Lines, Raise Individual Towers	DEC	Planned	12/1/2031	2	TPL
W190390	Gastonia # 2 44 kV Line, Rebuild Clover 44kV Line to Double Circuit and Add a New Tap off the Gastonia #2 Line	DEC	Planned	6/1/2032	2.3	TPL
CTPCDEP04	Rocky Mount - Wilson 115 kV Line, Upgrade	DEP	Conceptual	TBD	TBD	TPL
W200425	Marshall 230 kV Line (Marshall-Beckerdite), Raise Individual Towers	DEC	Conceptual	TBD	0.2	TPL
W200588	Ferrell White 100 kV Line, Construct	DEC	Conceptual	TBD	0.7	TPL
W230387	E Durham 230/100 kV Tie, Construct Panther Line Terminals [Modification to 0096 in 2023 Plan - Split into Two Projects]	DEC	Conceptual	TBD	0.9	TPL

Project ID	Reliability Project (New to Plan <= \$5M)	Transmission Owner	Status ¹	Projected In-Service Date	Estimated Cost (\$M) ²	Initiating Study Type ⁴
W200168	Steam 100 kV Line (Dan River CC-Dan River Steam), Rebuild	DEC	Conceptual	TBD	1.1	TPL
W230093	Woodlawn 230/100/44 kV Tie Station, Upgrade Add 44 kV Breaker	DEC	Conceptual	TBD	1.8	TPL
W200170	Lakewood 100 kV Line (Lakewood-Remount Road Retail), Reconductor	DEC	Conceptual	TBD	2	TPL
W220474	Batte 100 kV Line (Concord-Winecoff), Reconductor	DEC	Conceptual	TBD	2.1	TPL
W210482	Madison Tie, Upgrade, Add 100/44 kV Transformer	DEC	Conceptual	TBD	2.4	TPL
W220543	Delta 100 kV Line (Research Triangle Retail-Ellis Rd Retail), Reconductor	DEC	Conceptual	TBD	3	TPL
W200146	Sweptonville 100 kV Line (Mebane-Trollingwood Retail), Rebuild	DEC	Conceptual	TBD	3.4	TPL
Subtotal	Reliability Project (New to Plan <= \$5M)				\$52.2	
Reliability Projects Total					\$2,076.3	

¹ Status: **In-service:** Projects with this status are in-service. This status was updated as of 12/1/2024.

Underway: Projects with this status range from the Transmission Owner having some money in its current year budget for the project to the Transmission Owner having completed some construction activities for the project.

Planned: Projects with this status do not have money in the Transmission Owner's current year budget; and the project is subject to change.

Conceptual: Projects with this status are not *planned* at this time but will continue to be evaluated as a potential project in the future.

Deferred: Projects with this status were identified in the 2023 Report and have been deferred beyond the end of the planning horizon based on analysis performed to develop the 2024 Collaborative Transmission Plan.

Removed: Project is cancelled and no longer in the plan

² The estimated cost is in nominal dollars which reflects the sum of the estimated annual cash flows over the expected development period for the specific project (typically 2 – 5 years), including direct costs, loadings and overheads; but not including AFUDC. Each year's cash flow is escalated to the year of the expenditures. The sum of the expected cash flows is the estimated cost.

³ For projects with a status of Underway, the project lead time is the time remaining to complete construction and place in-service.

⁴ Initiating Study Type: **New Loads:** Econ Dev and Wholesale

PP: RZEP

TPL: BES (TPL) and non-BES Reliability

TSR: Transmission Service Request

AS: Affected System

Docket Nos. 44160 & 44161
Georgia Power Company's 2022 IRP and 2022 DSM Application
STF-JKA Data Request Set Number 8

STF-JKA-8-9

Question:

See Page 17 of the Unit Retirement Study report, which compares capital cost requirements by retirement units:

- a. Provide workpapers that led to the determination of these capital costs under the Capital without Retirement scenario, and the Capital with Retirement scenario in the continue to operate case versus the retirement case.
- b. For Bowen 1-2 explain the projects that must be performed that lead to such significant costs in 2023, 2024, 2026, and 2027 in the continue to operate case versus the retirement case.
- c. For Gaston 1-4 explain the projects that must be performed that lead to such significant costs in 2025, 2026, 2027, and 2028 in the continue to operate case versus the retirement case.
- d. For Scherer 3 explain the projects that must be performed that lead to such significant costs in 2023 and 2025 in the continue to operate case versus the retirement case.

Response:

- a. Please see TS STF-JKA-8-9 Attachment for a list of projects required in each scenario.
- b. The Company's long-term operation case assumes continued proactive maintenance activities that are necessary to support long-term reliable operation. Without replacement capacity and transmission system improvements, these investments must be made to ensure long-term reliable operation to support system reliability. The majority of the capital investment required to support reliable operation of Plant Bowen Units 1-2 beyond 2028 are associated with the boiler. The current condition of boilers at Plant Bowen Units 1-2 does require significant maintenance to support reliable operation beyond 2028 or if sustained high-capacity factors are expected. The establishment of a known near-term retirement date of 2028 or earlier supports the avoidance of these capital investments. However, avoidance of capital investment could carry performance risk for the units. The impact of performance risk to the system is reduced by the establishment of a retirement transition strategy, including transmission system improvements and replacement capacity.
- c. The Company's long-term operation case assumes continued proactive maintenance activities that are necessary to support long-term reliable operation. Without replacement capacity and transmission system improvements, these investments must be made to ensure long-term reliable operation to support system reliability. The majority of the capital investment required to support reliable operation of Plant Gaston Units 1-4 beyond 2028 are associated with the boiler (or superheater) and certain environmental costs. The

Contact: Jeff Grubb

EXHIBIT

tabler **GIPL-SF-7**

Docket Nos. 44160 & 44161
Georgia Power Company's 2022 IRP and 2022 DSM Application
STF-JKA Data Request Set Number 8

establishment of a known near-term retirement date of 2028 or earlier supports the avoidance of these capital investments. However, avoidance of capital investment could carry performance risk for the units. The impact of performance risk to the system is reduced by the establishment of a retirement transition strategy, including transmission system improvements and replacement capacity.

- d. The Company's long-term operation case assumes continued proactive maintenance activities that are necessary to support long-term reliable operation. Without replacement capacity and transmission system improvements, these investments must be made to ensure long-term reliable operation to support system reliability. The majority of the capital investment required to support reliable operation of Plant Scherer Unit 3 beyond 2028 is associated with the boiler. The establishment of a known near-term retirement date of 2028 or earlier supports the avoidance of these capital investments. However, avoidance of capital investment could carry performance risk for the units. The impact of performance risk to the system is reduced by the establishment of a retirement transition strategy, including transmission system improvements and replacement capacity.

Coalition Exhibit 1

Georgia Power Company
Docket Nos. 56002 & 56003
2025 Integrated Resource Plan and 2025 Demand-Side Management Application
STF-DEA Data Request Set No. 2

STF-DEA-2-6

Question:

Please refer to “2022-2024 SYSTEM PERFORMANCE” of “2025 IRP Volume 3 TRADE SECRET”.

- a. Has the Company assessed resiliency improvements in response to Hurricane Helene? If so, please describe what is being considered. Provide any reports, analysis, or assessments of these resiliency improvements. If the Company has not assessed these improvements, please explain why.
- b. Please provide any reports or technical analysis related to assessments of improved resiliency in response to Hurricane Helene.
- c. In response to Hurricane Helene and other recent natural events, has the Company collaborated with other utilities or trade associations on analysis of resiliency improvements? Please provide any reports or documentation from such collaboration.

Response:

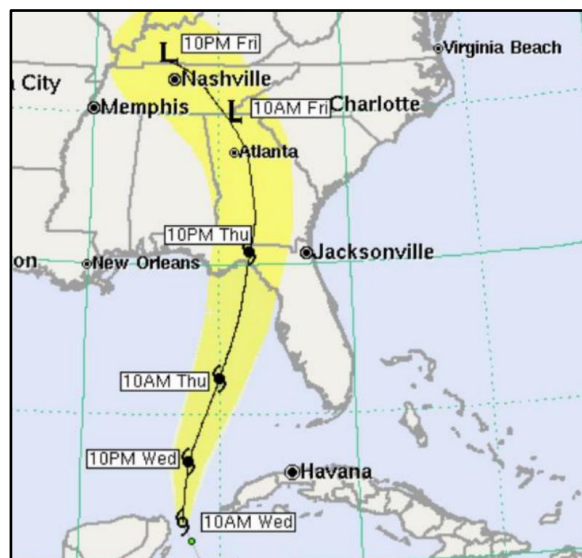
- a. The Company has discussed the severity of the Hurricane Helene Storm and the resiliency of the grid. Please see STF-DEA-2-6 Attachment for the Company’s post-storm summary report.
- b. The Company continues to have the resiliency of the grid as a priority. Please refer to STF-DEA-2-6 Attachment.
- c. In response to Hurricane Helene and other recent natural events, the Company has engaged in several collaborative efforts with other utilities to discuss resiliency efforts. Hurricane Helene was one of the most destructive hurricanes in the Company's history and led Georgia Power to hold a significant debrief with Alabama Power and Mississippi Power discussing key improvement elements and reviewing these actions at the Southeastern Electric Exchange (“SEE”) and Association of Edison Illuminating Companies (“AEIC”) conferences. Furthermore, the Company collaborated with Duke Energy and Florida Power & Light, known for their robust resiliency programs, to exchange best practices and successful strategies.

Storm Center

Post Storm Summary – Hurricane Helene

Weather Recap

- On September 26th, **Hurricane Helene** entered south Georgia as a Category 1 Hurricane and **maintained status as a Tropical Storm** the entire time it moved across the state.
- Throughout the storm, **heavy rains resulted in flash floods** and saturated ground. Some areas of the state received as much as **11 inches of rain**.
- The most significant **areas of impact** were Augusta, Brunswick, Savannah, and Valdosta, with intense damage also concentrated to Vidalia and Dublin.
- The storm carried **tropical storm to hurricane force winds** to nearly **400,000 GPC customers**. Some areas saw **wind gusts between 80 – 100 miles per hour**.



Restoration Highlights

- This storm caused the **most damage to our system** of any storm in history. DAT teams found over **11,895 broken poles, 1,524 miles of wire down, 5,796 damaged transformers, and 3,200 trees down on wires** for Distribution alone. Transmission found **over 1,200 spans of transmission lines** impacted and repaired over **150 cases of broken conductor**. In total, teams replaced **345 transmission structures** and **restored over 230 facilities, including around 200 transmission lines**. In the hardest hit areas, **around 50% of transmission lines were impacted**.
- Throughout the event, crews worked diligently to safely restore power to over **1,570,000 customers**, including over **20,000 events**.
- Before Helene ever left Georgia, teams were able to restore power to **275,000 customers** and **restored 50%** of impacted customers within **48 hours** of the system entering the state.
- Teams set area ERT's as soon as they were able to do so and for the first time, provided **Substation Level ERTs**, and Feeder Level ERTs where possible to ensure **customers had the most accurate information**.
- The UAV Team received an **FAA waiver to perform drone flights above the visible line of sight**. During the first BVLOS flight in Valdosta, the pilot **assessed 8,600ft in about 16 minutes**. This same length would have taken ~2 hours without the waiver. Subsequent flights using this waiver saved transmission assessment teams incredibly valuable restoration time.
- Despite being hit hard by outer bands of Hurricane Helene and losing cell service in large portions of the area, Savannah DA crews were able to **restore power to all medical facilities** in the area **less than 16 hours after the storm made landfall**.



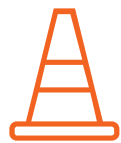
Storm Center

Post Storm Summary – Hurricane Helene

Resources Engaged

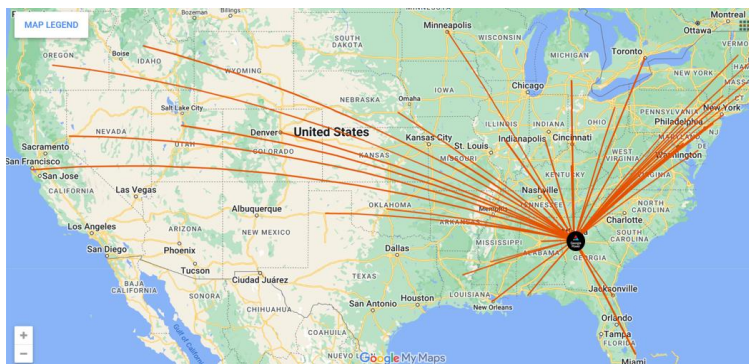
- We had an incredible response of **over 20,000 personnel** actively engaged in restoration efforts, which is more than Michael, Irma, Zeta, and Matthew combined. Specifically, we had more than **11,500-line resources**, including **1,500 Transmission** resources and **10,000 Distribution** resources.
- Crews came from all over the country and **internationally** to help us respond to Helene. In addition to resources from APC, MPC, Florida partners, and SEE Mutual Assistance, we also had crews from **35 different states** from all corners of the country along with **crews from Canada** working to restore power to Georgians. **Georgia Power Hurricane Helene Personnel Map** shows just how far crews traveled to support restoration efforts.
- Logistics teams pulled off a truly historical response in ensuring beds, food, and facilities for folks working in the field. Across the state, we had over **34 total cot sites and basecamps totaling over 25,000 beds**, supported by **hundreds of local vendors**.
- Georgia Power employees remained committed to safely and quickly restoring power. Multiple employees in the hardest hit areas cut trees to get out of their homes and into work on Friday morning. **Two employees in the Augusta area even walked to work** to be there for storm response.

 **20,000+**
Total Personnel



34

Basecamp and Cot
Site Locations



5,700

Total Vegetation Mgmt
Resources



700

625

GPC Line Crew
Resources

APC & MPC Line
Crew Resources



1160

7675

Native Contract Line
Crew Resources

Non-Native Contract
Line Crew Resources

Storm Center



Post Storm Summary – Hurricane Helene

Customer & Community Engagement

- Corporate Affairs engaged with multiple media outlets throughout Helene including proactive post storm safety and outage information, updates on our ongoing restoration efforts, and wrap up messaging thanking customers for their patience. They also shared content across all social media channels including [preparation updates](#), [messages from our restoration teams](#), live updates from the field, and more.
- Teams across Corporate Affairs and Power Delivery collaborated to maintain focus on enhancing messaging provided to customers on the [Georgia Power Outage Map](#) to continue to improve customer sentiment.
- Region External Affairs engaged in constant proactive communication with key stakeholders, resulting in [strengthened community relationships](#). Not only did [St. Mary's Hospital in Athens offer their parking lot as a staging site](#), local elected leaders, Mayor Lois Salter of Berkeley Lake (Gwinnett) and Mayor Vince William of Union City (Fulton), also sent in positive feedback celebrating our crews' hard work and [expressing gratitude for our response](#) to the storm.
- Customer Care leaders reached out to [71 customers](#) in the heavily impacted areas who [rely on medical or life support equipment](#) and were experiencing extended ERTs. We were able to coordinate the delivery and installation of [generators at 13 locations](#) to assist customers during their outages.
- One of the contractors assisting with hurricane restoration in Savannah area, SOS-MASTEC, [raised \\$5,300 in donations from their onsite crews](#) for hurricane relief. The company then matched the funds for a [total donation of \\$11,000](#). The money will go to the Hurricane Helene Disaster Relief Fund for the United Way of the Coastal Empire, which serves 5 counties in Coastal Georgia – Chatham, Effingham, Bryan, Liberty, and Long.

300k

Outage Calls Received

**3.9mil**Proactive Outage Alerts
Delivered**78%**Positive Social Media
Sentiment**82%**

Calls Handled by IVR

Storm Center

Post Storm Summary – Hurricane Helene

Damage & Restoration Photos

