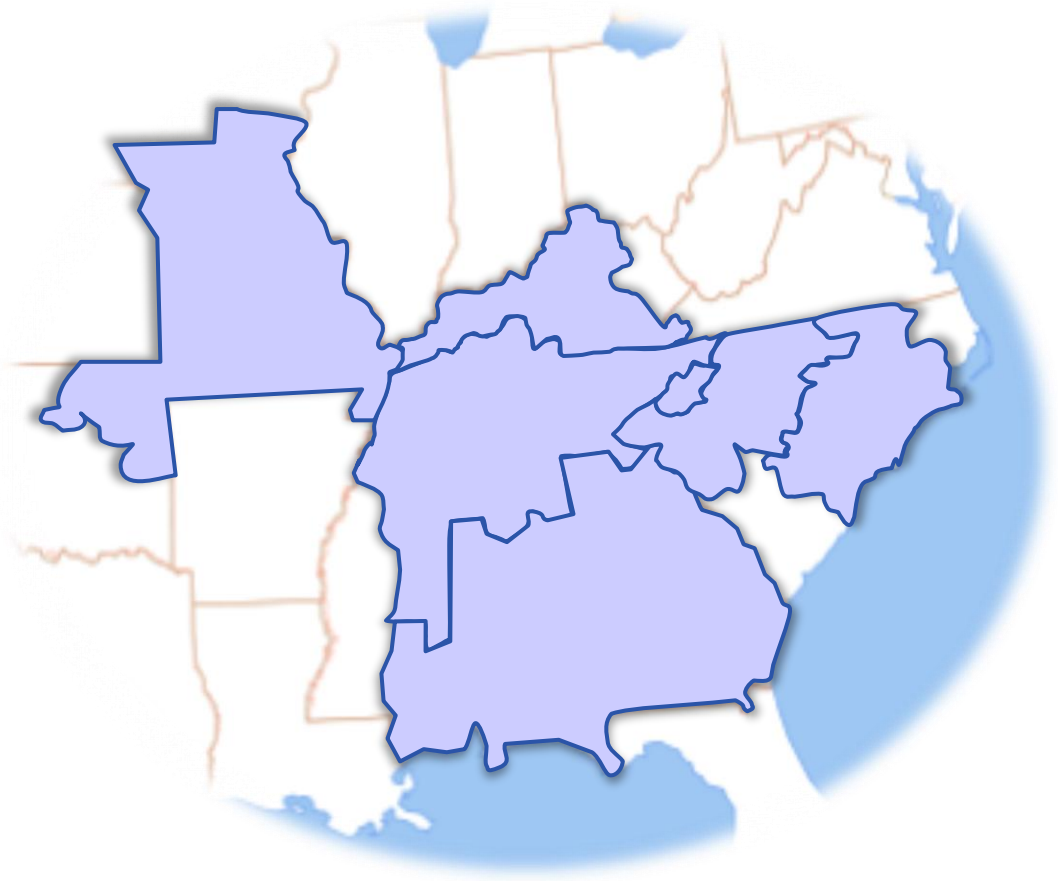
SERTP Southeastern Regional Transmission Planning



November 27, 2024

Regional Transmission Plan & Input Assumptions Overview

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I. SERTP Overview

About the SERTP

The Southeastern Regional Transmission Planning (SERTP) process is a collaboration of ten (10) transmission planning entities in a twelve (12) state area that coordinates regional transmission planning activities and provides an open and transparent transmission planning forum to engage with stakeholders regarding transmission plans in the region. The SERTP region was initially developed by six (6) sponsors to provide an open and transparent regional transmission planning process and to otherwise comply with the Federal Energy Regulatory Commission's (FERC) Order 890, which was issued in 2007. The SERTP region expanded several times in size and scope. The SERTP region's implementation of FERC's Order 1000, issued in 2011, to establish regional and interregional transmission planning and cost allocation requirements, became effective beginning June 1, 2014. The SERTP region includes three (3) FERC jurisdictional investor-owned utilities and six (6) non-jurisdictional, non-profit public utilities, who have a longstanding history of collaboration in transmission planning activities and who have voluntarily elected to participate in the SERTP region. The expanded SERTP region is one of the largest regional transmission planning regions in the United States.

The SERTP Regional Transmission Plan

The SERTP provides an open and transparent transmission planning process. The SERTP transmission modeling, expansion plans, and other materials are publicly available and provide extensive data regarding the sponsors' transmission systems. Stakeholders can utilize this data to replicate the transmission planning performed through the SERTP as well as to assess a wide range of sensitivities and scenarios of interest.

This SERTP Regional Transmission Plan & Input Assumptions Overview document, which is produced annually, is intended to provide an overview of the 2024 cycle's regional modeling, key assumptions and philosophies, and expansion planning results suitable for any interested stakeholder, as it does not include Critical Energy Infrastructure Information (CEII) materials. Materials which include CEII are also available, subject to completion of the CEII request and certification process. Additional information is available through the SERTP website (http://www.southeasternrtp.com/).

The SERTP

Associated Electric Cooperative (AECI)

AECI, a Generation and Transmission (G&T) rural electric cooperative, provides electric service across approximately 75,000 square miles in three states. Headquartered in Springfield, Missouri, AECI serves approximately 875,000 ultimate members through six regional G&Ts and 51 distribution cooperatives. AECI and its six regional G&Ts own over 9,800 miles of transmission lines operated at 69 through 500 kV.

Dalton Utilities (Dalton)

Dalton Utilities provides electric services in Dalton, Georgia and five surrounding counties. Headquartered in Dalton, Georgia, Dalton Utilities serves approximately 18,000 customers and owns over 350 miles of transmission lines.

Duke Energy (Duke)

Duke Energy provides electric service across 95,000 square miles in 6 states. Headquartered in Charlotte, NC, Duke Energy serves approximately 7.3 million customers and owns over 19,000 miles of transmission lines.

Two Duke Energy subsidiaries, Duke Energy Carolinas and Duke Energy Progress, are represented on the SERTP.

Georgia Transmission Corporation (GTC)

GTC, an electric membership corporation formed in 1997 through a restructuring of Oglethorpe Power Corporation, provides electric service to 38 retail distribution cooperative members in Georgia. Headquartered in Tucker, Georgia, GTC owns approximately 3,150 miles of transmission lines and its members serve approximately 4 million people.

Louisville Gas & Electric and Kentucky Utilities (LG&E/KU)

LG&E/KU, an investor-owned utility, provides electric service across 6,100 square miles in two states. Headquartered in Louisville, KY, LG&E/KU serves approximately 940,000 customers and 2,700 miles of transmission lines.

Municipal Electric Authority of Georgia (MEAG)

MEAG, a public corporation and an instrumentality of the State of Georgia, provides electric service to 48 cities and one county in Georgia. Headquartered in Atlanta, Georgia, MEAG serves approximately 310,000 customers and owns over 1,320 miles of transmission lines.

PowerSouth Electric Cooperative (PowerSouth)

PowerSouth, a generation and transmission cooperative consisting of 16 distribution cooperatives and 4 municipal systems, provides electric service across 31,000 square miles in 2 states. Headquartered in Andalusia, Alabama, PowerSouth serves approximately 418,000 customers and owns over 2,300 miles of transmission lines.

Southern Company (Southern)

Southern Company, a leading U.S. producer of clean, safe, reliable, and affordable energy, includes three electric utility companies that provide electric service across approximately 120,000 square miles in three states. Headquartered in Atlanta, Georgia, Southern Company serves approximately 9 million electric customers and owns over 27,000 miles of transmission lines

Tennessee Valley Authority (TVA)

TVA, a federally-owned electrical utility, provides electric service across 80,000 square miles in 7 states. Headquartered in Knoxville, TN, TVA serves approximately 10 million customers and owns over 16,400 miles of transmission lines.

SERTP Region Scope

The SERTP region is located within 12 states, roughly spanning over 600 miles north to south and 1,100 miles east to west. The SERTP region is one of the largest transmission planning regions in the Eastern Interconnection in terms of transmission line miles and based upon customer peak demand. The seven (7) NERC Balancing Authority Areas ("BAAs") in the SERTP region serve combined peak loads totaling more than 130,000 MWs.

Table I.1: State by State Breakdown of the SERTP

No.	SERTP States	SERTP
1	Alabama	PowerSouth, Southern, TVA
2	Florida	PowerSouth
3	Georgia	Dalton, GTC, MEAG, Southern, TVA
4	Iowa	AECI
5	Kentucky	LG&E/KU, TVA
6	Mississippi	Southern, TVA
7	Missouri	AECI
8	North Carolina	Duke, TVA
9	Oklahoma	AECI
10	South Carolina	Duke
11	Tennessee	TVA
12	Virginia	LG&E/KU, TVA

II. SERTP Transmission Planning Approach

Physical Transmission Delivery Service Markets

The fundamental purpose of the transmission system is to enable transmission users the opportunity to access their desired generating resource options to reliably and economically deliver power to serve their customers' loads. In the SERTP region, physical transmission delivery service markets allow transmission customers to procure long-term transmission service across the transmission system and receive dependable, firm delivery from resources to customer loads. The SERTP sponsors plan and expand the transmission system to reliably and economically satisfy the load projections, resource assumptions, public policy requirements, and transmission service commitments within the region. These transmission system delivery capacity requirements are typically driven by long-term, firm commitments and are planned with the intent that those who have made such commitments will be able to access their resources to serve load without congestion, constraint, or curtailment. In other words, the SERTP sponsors identify, evaluate, and implement efficient and cost-effective transmission expansion options to provide sufficient physical capacity to enable delivery of a long-term, firm transmission customer's service without impacting other long-term, firm delivery commitments, and with the intent that the service will normally be available without interruption or curtailment. The physical transmission delivery service markets in the SERTP region not only help to provide certainty in long-term delivery costs, but also minimize delivery risks for transmission users. The resulting planned physical transmission capacity provides for a robust, reliable, and resilient transmission system which responds well under a wide range of operating uncertainties and supports routine maintenance and construction activities.

Integrated Resource Planning and Transmission Planning Interaction

Although many long-term firm transmission delivery service commitments in the SERTP region are made by individual market participants, the majority are made by Load Serving Entities ("LSEs"). LSEs typically have a legal "duty to serve" obligation to reliably and proactively meet current and future load needs, and therefore procure energy, capacity, and transmission services to accomplish this objective. LSEs in the SERTP typically conduct Integrated Resource Planning ("IRP") processes on a reliable and least-cost basis to assess future load-serving needs, consider supply-side and demand-side options, and procure transmission delivery services. The IRP processes of LSEs, which are often state-regulated, consider a multitude of factors over a long-term horizon in their decisions to select resources and procure delivery services, including reliability, transmission impacts,

economics, environmental attributes, economic growth, energy efficiency, resource diversity, applicable regulations, fuel delivery, ancillary services, and construction lead-times. Specifically, LSEs use IRP processes to identify a cost-effective mix of supply-side and demand-side capacity resources to meet future requirements. The physical transmission delivery service markets in the SERTP region enable LSEs to base their decisions on long-term, total delivered costs without exposure to congestion pricing or significant delivery risks.

As LSEs make their resource decisions, these decisions and corresponding transmission service commitments are provided to the SERTP sponsors and form the basis for transmission planning assumptions in the SERTP region. Through their commitments for long-term, firm delivery service, LSEs communicate to the SERTP sponsors the set of resources their IRP processes have selected as best situated to serve their customers' long-term needs. This process significantly reduces uncertainties related to future resources and delivery needs and provides sufficient lead times to enable transmission facilities to be planned and constructed. The load forecasts, demand-side management programs, resource decisions, and corresponding firm transmission commitments resulting from the IRP activities of LSEs establish the majority of delivery obligations and modeling inputs for transmission planning in the SERTP region.

Customer Needs Lead to Continually Evolving Transmission Plans

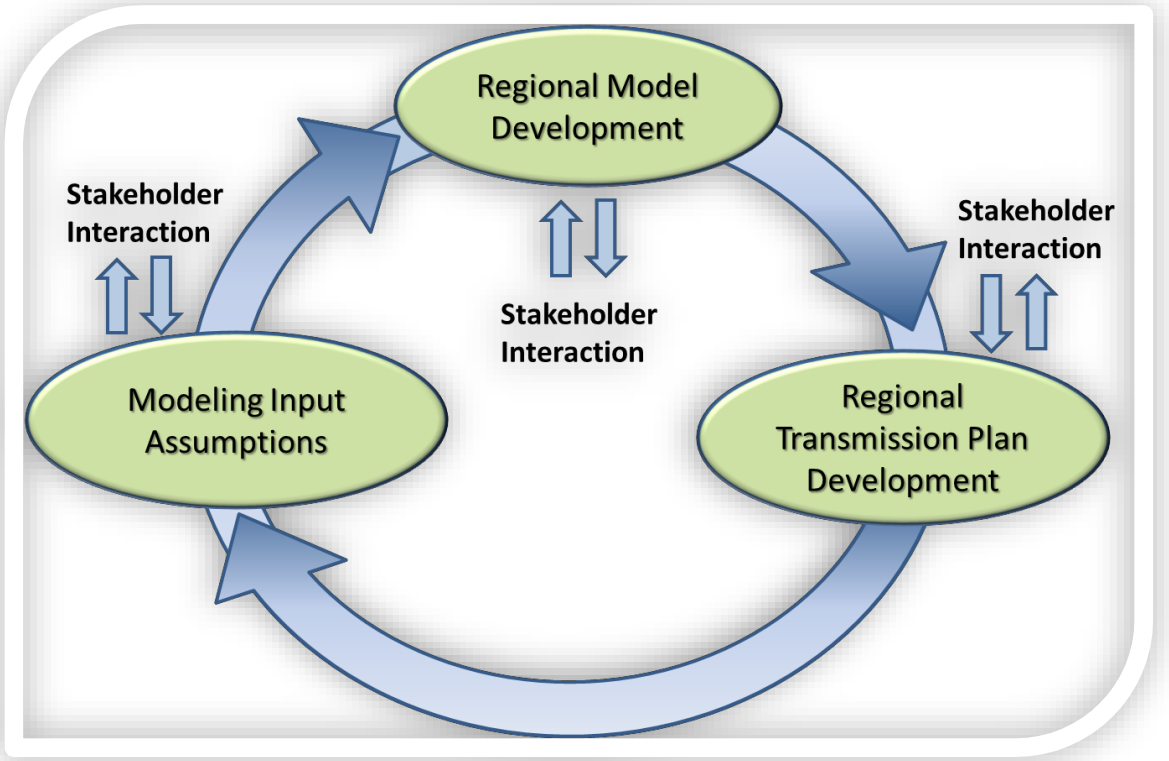
Transmission planning in the SERTP region is focused on identifying reliable, cost-effective transmission projects to meet the long-term firm transmission delivery service obligations to transmission customers, and thereby assisting in serving their forecasted load obligations from their desired resource choices. Simply put, transmission plans are driven by customer transmission delivery service needs, and these needs can be constantly changing. Each year, load forecasts change, resource decisions change, and, as a result, transmission delivery service needs change. On a recurring basis, LSEs and other transmission customers communicate their delivery needs, which the SERTP incorporates into the latest transmission planning models and analyses. Planned transmission projects are reassessed to ensure that the proper scope and timing of the projects have been identified. Transmission projects are timed to coincide with delivery service needs; early enough to ensure physical capacity is in place to meet delivery commitments, but not so early as to incur significant carrying costs or limit flexibility if delivery needs change. Each year, planned transmission projects are often re-timed and, in some cases, eliminated.

Although the results of these planning efforts culminate annually into a regional transmission plan document, the regional transmission plan is continually re-evaluated as on-going changes in firm delivery service obligations, forecasted conditions, and identified-project alternatives arise. Therefore, the regional transmission plan is updated and improved upon on a recurring basis, often resulting in the identification of new cost-effective transmission project options, timing changes to existing transmission projects, and the potential removal of some transmission projects from the ten-year plan. This planning approach provides a seamless interaction with IRP processes such that as IRP decisions are made, the expected transmission impacts considered in those IRP decisions become reflected in the regional transmission plan, unless other, more cost-effective, reliable solutions have been identified for the then-current forecasted conditions. Similarly, the decisions of other types of market participants to procure long-term, firm transmission delivery service in the SERTP region are incorporated in the development of the regional transmission plan as well. These constantly changing customer needs drive a constantly changing regional transmission plan.

The SERTP develops a regional plan each year, but the plan is a "snapshot", solely intended to reflect the then-current transmission plan based upon then-current forecasted assumptions and transmission delivery service needs. Transmission planning is a very iterative process, with delivery needs and associated projects constantly evolving. From the start, transmission planning in the SERTP region reflects a high degree of coordination and joint modeling between neighboring systems. If reliability constraints are identified, the SERTP works to identify cost-effective, reliable transmission projects, not only on their respective transmission systems, but also considering potential transmission projects across two or more transmission systems. Transmission plans are shared with SERTP stakeholders at regular intervals during the year and the frequent engagement with stakeholders allows for additional inputs into potential project alternatives.

Diagram II.1 below illustrates the iterative nature of the SERTP process and the development of the regional transmission plan.

Diagram II.1: Iterative Regional Transmission Plan Development Process



Transmission Planning for Public Policy Requirements

In planning, constructing, operating, and maintaining the transmission system, the responsible transmission entities must meet all local, state, and federal laws/regulations applicable within their respective jurisdictions. These laws and regulations are referred to as public policy requirements ("PPRs"). The SERTP strives to meet all PPRs applicable to planning the transmission system. Although PPRs applicable to transmission planning vary by jurisdiction, some common examples of PPRs involving transmission planning include complying with applicable State Public Service Commission requirements, complying with Nuclear Regulatory Commission requirements related to offsite power, and planning consistent with applicable North American Electric Reliability Corporation ("NERC") Reliability Standards.

Although PPRs related to generating resource decisions are typically applicable to LSEs, these too can impact the development of the transmission plan. By offering physical transmission services, SERTP sponsors help facilitate applicable entities, such as LSEs, in meeting their PPR obligations related to resource decisions. As an example, assume a state-enacted PPR requires LSEs within the state to add additional renewable resources to their

generation mixes. An LSE, through its IRP analyses and processes, may determine that its most appropriate resource selection is to import renewable generation from a neighboring area. Alternatively, the LSE may determine that its most appropriate option is to interconnect new renewable generation locally. In either case, the LSE can provide its resource selection decisions through long-term, delivery service commitments to the SERTP sponsors, so that the SERTP can incorporate these input assumptions into the transmission expansion planning process to accommodate the delivery of the resource selections.

SERTP Regional Planning Process Timeline

As discussed earlier, the SERTP planning process is an iterative process that continually re-evaluates the regional transmission plan based upon changes in actual and forecasted conditions. Often forecasted conditions can change, driven by inputs from native load and wholesale transmission customers such as their load-serving obligations and resource assumptions.

In light of these on-going changes, in a given planning cycle, transmission projects that may be included in the then-current regional plan are re-assessed by the SERTP sponsors, each applying its respective planning criteria, to determine: 1) if a given project continues to be needed, 2) if the timing of the projects should be adjusted, and 3) if potential alternatives exist that may be more reliable and cost-effective to address the underlying transmission capacity requirements.

Diagrams II.2 and II.3 below illustrate the approximate timing and objectives of the SERTP process. The flags in the diagram represent the quarterly meetings.

Diagram II.2: SERTP Process – Quarters 1 &2

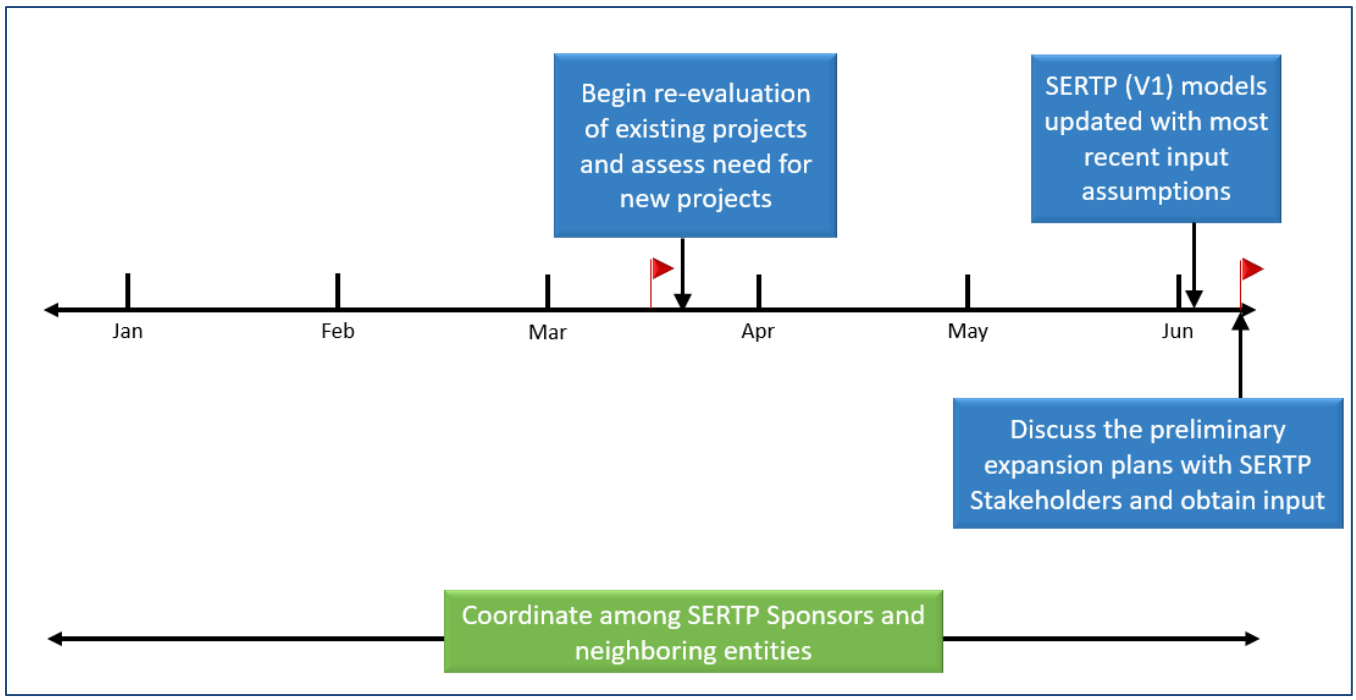
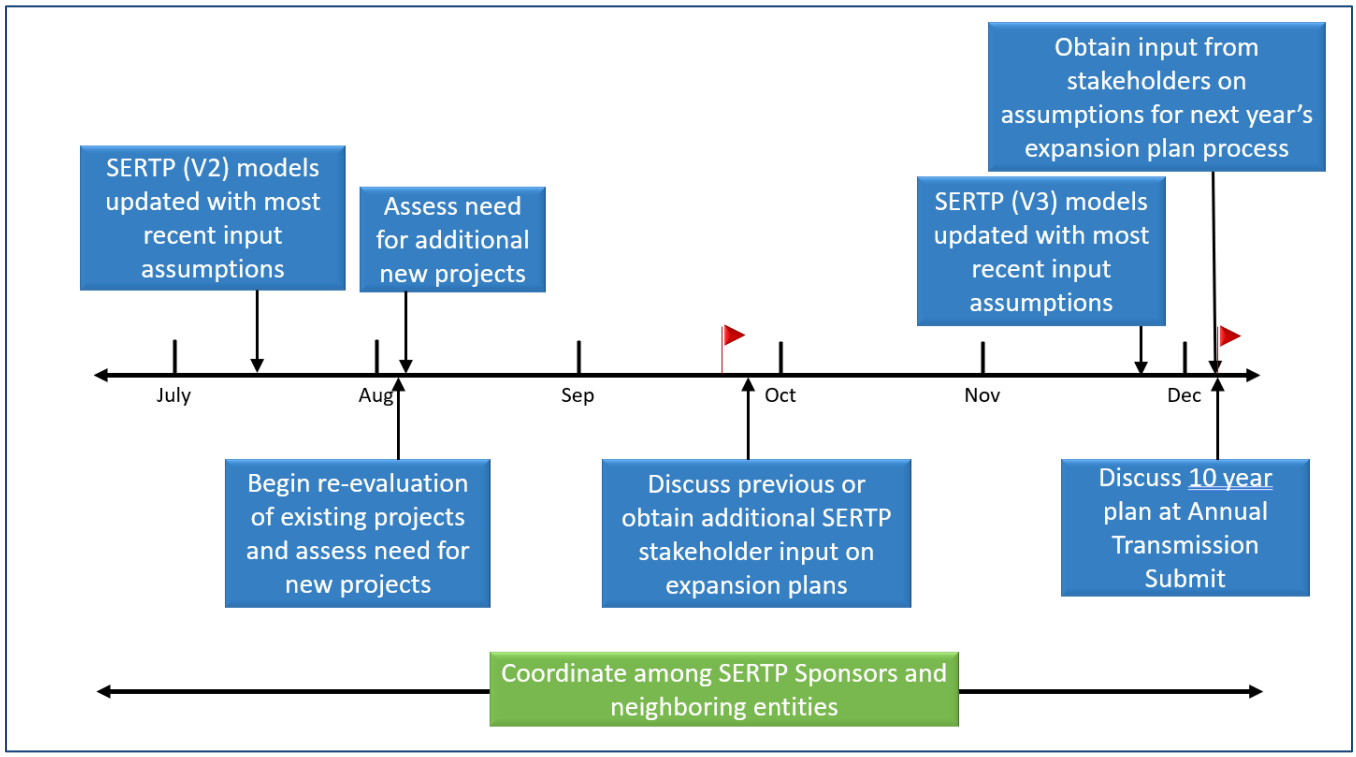


Diagram II.3: SERTP Process – Quarters 3 &4



The SERTP Region – A Robust, Reliable, Resilient Transmission System

The SERTP transmission planning approach has resulted in a robust transmission system intended to enable both native load and wholesale customers the right to use the underlying physical transmission capacity in the system associated with their long-term, firm transmission commitments. In fact, the SERTP region is one of the largest transmission planning regions in the Eastern Interconnection in terms of transmission line miles with approximately 82,000-line miles.

The 2024 regional transmission plan includes forecasted transmission projects to continue to reliably and cost-effectively provide for the transmission needs of the SERTP region. The planned physical transmission capacity provides for a continued robust, reliable, and resilient transmission system which responds well under a wide range of operating uncertainties and supports routine maintenance and construction activities.

Tables II.1 and II.2 below depict a snapshot of the major transmission expansion project types included in the regional transmission plan throughout the ten-year planning horizon.

Table II.1 2024 SERTP Regional Transmission Plan – Transmission Project Snapshot

SERTP	Total
Transmission lines – New (Circuit Mi.)	1634.1
Transmission Lines – Uprates[1] (Circuit Mi.)	2257.4
Transformers – New	28
Transformers – Replacements	10
Power Flow Control Devices	2
Static Compensators	2

[1] A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line.

Table II.2 2024 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage

SERTP	100-120 kV	121-150 kV	151-199 kV	200-299 kV	300-399 kV	400-550 kV
Transmission lines – New (Circuit Mi.)	138.0	0.0	187.4	763.7	0.0	545.0
Transmission Lines – Uprates[1] (Circuit Mi.)	1480.9	30.2	263.6	482.8	0.0	0.0
Transformers[2] – New	2	0	0	11	0	15
Transformers[2] – Replacements	0	0	0	10	0	0
Power Flow Control Devices	0	0	0	2	0	0
Static Compensators	0	0	0	2	0	0

[1] A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line.

[2] The voltages shown represent the operating voltages on the high side terminals of the transformer.

III. SERTP Regional Modeling

Regional Model Development

The SERTP annually develops regional power flow models, which include the coordinated inputs and assumptions needed to support on-going regional transmission planning analyses. These models, which are available to SERTP stakeholders via the secure area of the SERTP website, are utilized by SERTP sponsors to perform regional transmission planning analyses and are also well suited to support SERTP stakeholders in conducting a wide range of scenarios and sensitivities that may be of interest. Table III.1 below provides a list of the 2024 series set of SERTP power flow models. Additional models may be developed on an "ad hoc" basis based upon the requirements of the then-current planning cycle.

Table III.1: 2024 Series set of SERTP Power flow Models

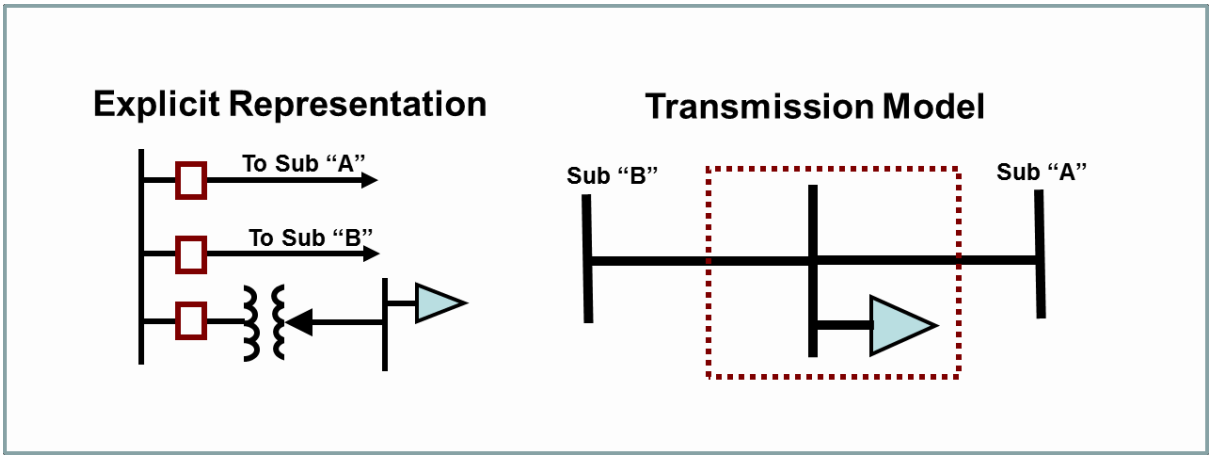
No.	Season	Year	MMWG Starting Point Model
1	Summer	2026	2025 SUM
2	Summer	2029	2028 SUM
3	Summer	2034	2033 SUM
4	Shoulder	2029	2028 SSH
5	Winter	2029	2028 WIN
6	Winter	2034	2033 WIN

The SERTP regional power flow models provide representations of the existing transmission topology plus forecasted topology changes throughout the ten-year planning horizon. In addition, these models incorporate the input assumptions provided by LSEs and other transmission customers for use in planning the transmission system.

The power flow models provide a comprehensive representation of the actual and forecasted transmission system so that simulations of the transmission system's ability to reliably accommodate firm delivery service commitments can be performed. The SERTP conducts interactive stakeholder training on modeling and analysis techniques each year intended to help stakeholders better understand and utilize the abundance of information provided in these materials. More information on previous training presentations can be found on the SERTP website. In the models, transmission lines, transformers, and substations are modeled as branches and nodes (buses). In general, radial transmission facilities only serving load with one source are typically not considered Bulk Electric System (BES) facilities and therefore, are not explicitly modeled.

Diagram III.1 depicts a simple example of how an explicit substation representation might be reflected in the power flow models.

Diagram III.1: SERTP Power flow Model Substation Representation – Simple Example



The regional power flow models are considered and marked as Critical Energy Infrastructure Information (CEII). The Federal Energy Regulatory Commission defines CEII as being specific engineering, vulnerability, or detailed design information about proposed or existing critical infrastructure (physical or virtual) that:

1) Relates details about the production, generation, transmission, or distribution of energy
2) Could be useful to a person planning an attack on the critical infrastructure
3) Is exempt from mandatory disclosure under the Freedom of Information Act
4) Does not simply give the general location of the critical infrastructure

The SERTP models and other CEII materials are available to SERTP stakeholders, but are kept in the secure area of the SERTP website for the reasons discussed above. The process by which a stakeholder can obtain access to CEII can be found on the SERTP website.

Regional Modeling Input Assumptions

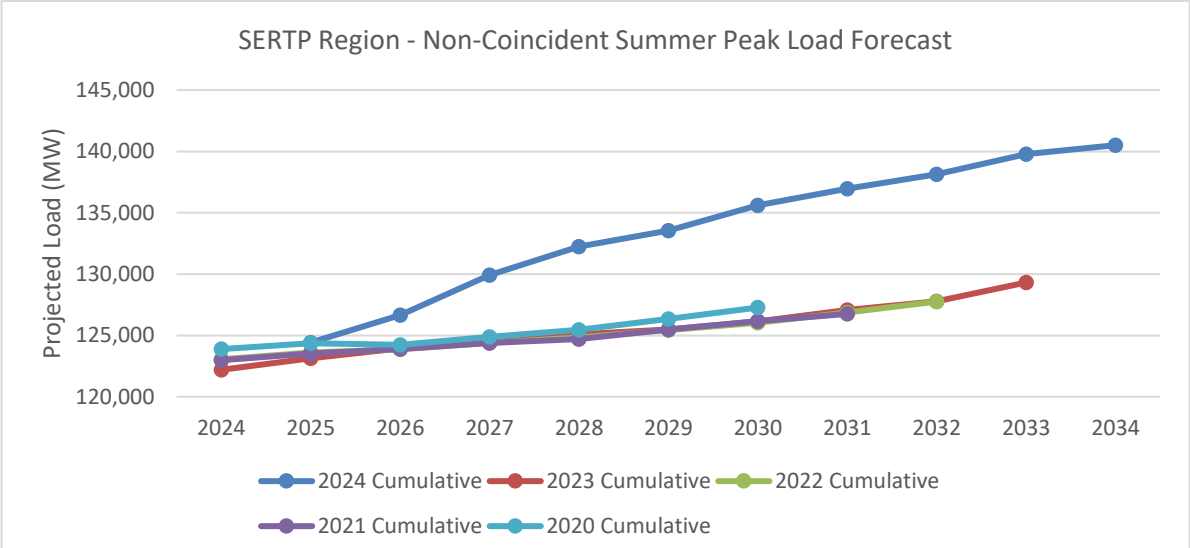
Vast amounts of data and information, such as the SERTP regional models, are available to all SERTP stakeholders, but are generally more geared towards an engineering audience. Therefore, the summaries below are intended to provide an overview of the modeling assumptions. Section III and Appendices 1-7 include detailed information on the input assumptions reflected in the regional power flow models and considered in the transmission planning process. The data shown is representative of the input assumptions

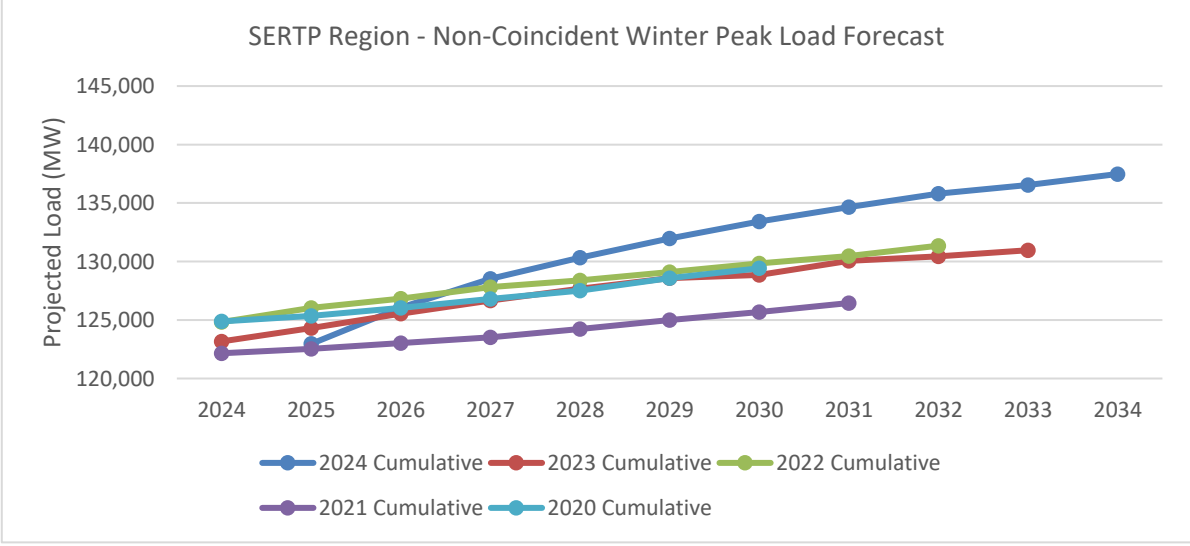
provided by LSEs and other transmission customers for specific use in planning the transmission system during the 2024 planning cycle.

Load Forecasts

LSEs, who are responsible for identifying and securing the firm transmission delivery services necessary to meet their current and forecasted load serving requirements, annually supply the SERTP sponsors with revised load forecasts. The SERTP incorporates the latest load forecasts from each LSE into the latest series of SERTP power flow models. Diagram III.2 provides cumulative load forecast trends by year for the SERTP region for each of the last five years.

Diagram III.2: Cumulative SERTP Load Forecast





The SERTP power flow models provide more detailed information on the forecasted load. The 2024 series SERTP power flow models are made available through the secure area of the SERTP website.

Energy Efficiency and Demand Side Management

The load forecasts provided by LSEs often reflect reduced load serving requirements for particular loads based upon energy efficiency ("EE") and demand side management ("DSM") options. Such options are developed as a part of each individual LSE's IRP processes on a state-by-state and program-by-program basis and therefore can vary in structure and operational characteristics. The transmission planning process in the SERTP necessarily plans for each LSE's loads consistent with their desired treatment of such loads. While each LSE may treat their load forecasting process and assumptions differently, the following describes the typical treatment of energy efficiency and demand side resources.

LSEs proactively seek out DSM options that are economical and of interest to customers. In many cases, such DSM options are setup and implemented under the purview of state-approved programs, and therefore the LSE treats the DSM options in its load forecasting process consistent with the parameters of such programs. Energy efficiency and non-dispatchable (passive) demand side resources are typically treated as load-modifying and are reflected in a reduced load forecast provided by the LSEs and incorporated in the SERTP transmission planning models. Dispatchable (active) demand side resources are accounted for and considered as part of the resource decisions that are provided by each LSE. LSEs often do not treat these demand side resources as load-modifying when supplying load forecast assumptions into the SERTP process because of a multitude of factors, including but not limited to:

- A significant number of exposure hours can greatly exceed the number of hours a DSM resource may be available;
- Relying upon active DSM to address transmission constraints can lead to response fatigue from customers and potential withdrawal from DSM programs; or
- The operational characteristics of active DSM resources may be insufficient to address transient transmission needs.

Generating Resources

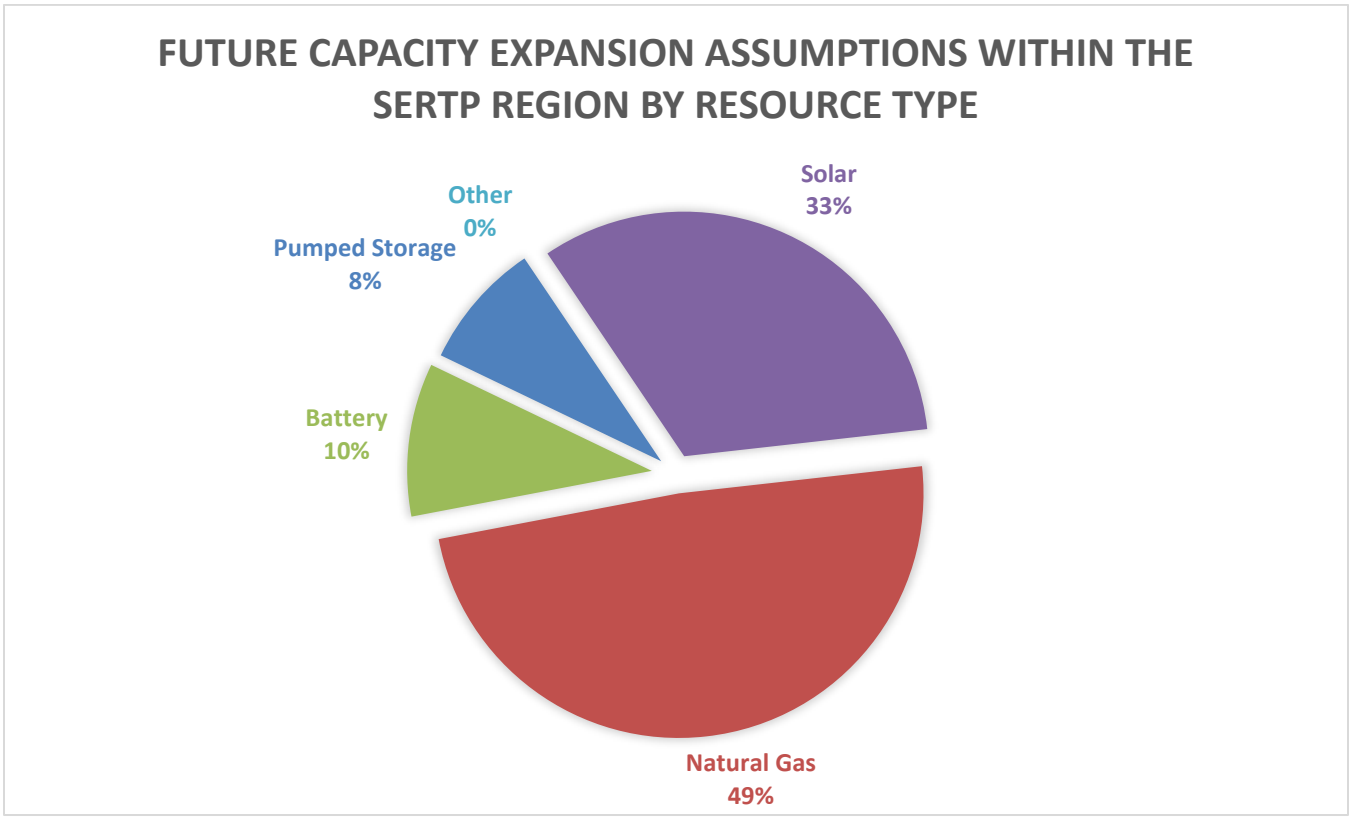
The 2024 series SERTP power flow models available on the secure area of the SERTP website contain information on each of the generating resources connected within the SERTP

region as well as those that are planned to be connected within the ten-year planning horizon. Detailed tabular reports on such information can be created for the power flow models utilizing PSS/E software.

LSEs and market participants routinely make changes in their generation resource assumptions and associated transmission delivery service commitments. These changes can have many different drivers, including the selection of new resources, the retirement of generation, and the expiration of purchase power agreements. The SERTP reflects the latest generation resource assumptions, as provided by LSEs, in the then-current modeling and transmission planning analyses.

Appendices 1 through 7 depict changes in the generation resource assumptions that occur across the ten (10) year transmission planning horizon, including the year(s) in which they occur for each BAA in the SERTP region. Several of the changes in the generation resource assumptions represent capacity sourced from assumed generation expansion within the SERTP region. Diagram III.3 provides a breakdown, by resource type, of these generation expansion assumptions within the SERTP region.

Diagram III.3: Future Capacity Expansion Assumptions within the SERTP Region by Resource Type



Generation assumptions within the SERTP region can also stem from long-term, firm point-to-point transmission service commitments. Additional information on long-term firm transmission service commitments considered in the 2024 SERTP process is available in Appendices 1 through 7 as well as on each SERTP sponsor's respective OASIS site.

Interface Commitments

In addition to the firm transmission delivery service commitments made by LSEs that source and sink within their NERC BAA, firm transmission delivery service commitments may exist that source and/or sink across two NERC BAAs. These commitments are called interface commitments. While interface commitments can stem from a number of drivers, many of these commitments are the result of LSEs opting to procure transmission capacity to receive deliveries from off-system resources to serve their loads. Other market participants may also utilize long-term, firm transmission delivery service to obtain delivery priority to access either committed or potential customers in other BAAs. The interfaces are also planned to maintain reliability margins to address uncertainties which may arise in real-time operations. Two types of reliability margins are 1) Transmission Reliability Margin ("TRM"), which is capacity preserved to provide reasonable assurance that the interconnected transmission network will be secure under the inherent uncertainty in real-time system conditions and 2) Capacity Benefit Margin ("CBM"), which is capacity preserved to enable LSEs access to generation from other interconnected systems to meet generation reliability requirements should times of emergency generation deficiencies arise.

Each SERTP sponsor plans the transmission system to accommodate all its long-term firm interface commitments including reliability margins. This planning, along with planning for other long-term firm commitments, has resulted in a highly integrated and robust network of ties within the SERTP region. Appendices 1 through 7 provide detail on the interface commitments modeled in the 2024 series SERTP regional power flow models. Additional information on the long-term firm transmission service interface commitments considered in the 2024 SERTP process is available on each SERTP sponsor's respective OASIS sites.

IV. SERTP Regional Transmission Plan Summary

Regional Plan Summary

The regional transmission plan represents the culmination of each year's planning cycle assessment, providing a "snapshot" of the transmission capacity requirements to safely, reliably, and economically serve the load within the SERTP region based upon the current resource assumptions of LSEs and other transmission customers. As described in Sections II & III, the regional transmission plan is continually assessed and may be revised based upon changes to these input assumptions.

The 2024 SERTP regional transmission plan, found in its entirety in Section V, consists of around 350 transmission projects, totaling an estimated $16.7 billion dollars, including: over 1630 miles of new transmission lines, over 2250 miles of transmission line uprates (including upgrades, reconductors, and rebuilds), and 38 transformer additions and/or replacements. This planned physical transmission capacity provides for a continued robust, reliable, and resilient transmission system that responds well under a wide range of operating uncertainties and supports routine maintenance and construction activities. Tables II.1 and II.2 in Section II provide additional cumulative breakdowns on the regional transmission plan, while Appendices 1 through 7 depict tabular breakdowns for each BAA.

V. SERTP Regional Transmission Plan

SERTP REGIONAL TRANSMISSION PLAN

Associated Electric Cooperative Inc.

Dalton UTILITIES

DUKE ENERGY

GeorgiaTransmission

LG&E KU

MEAG POWER

PowerSouth ENERGY COOPERATIVE

Southern Company

TVA

November 27, 2024

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[1] The projects described in this document represent the current ten-year transmission expansion plans. The transmission expansion plans are periodically reviewed and may be revised due to changes in assumptions. This document does not represent a commitment to build for projects listed in the future.

In-Service Year:	2026
Project Name:	**REBUILD THE 24.48-MILE-LONG CROCKER SOUTH-LEBANON #2 161 KV LINE WITH 795 ACSR RATED AT 100C**
Description:	Rebuild the 24.48-mile-long Crocker South-Lebanon #2 161 kV line with 795 ACSR rated at 100C
Supporting Statement:	The Crocker South - Lebanon 161 kV line overloads under contingency

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In-Service Year:	2027
Project Name:	**REBUILD 31.58 MILE LONG MANSFIELD - GAINESVILLE #2 161 KV LINE WITH 795 ACSR RATED AT 100C**
Description:	Rebuild the 31.58 mile long Mansfield - Gainesville #2 161 kV line with 795 ACSR rated at 100C
Supporting Statement:	The Mansfield - Gainesville 161 kV transmission line can overload under contingency

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In-Service Year:	2027
Project Name:	**REBUILD THE 24.42 MILE-LONG-LINE FROM GAINESVILLE #2-BULL SHOALS 161 KV LINE 795 ACSR AT 100C**
Description:	Rebuild the 24.42 mile-long-line from Gainesville #2-Bull Shoals 161 kV line 795 ACSR at 100C
Supporting Statement:	The Gainesville - Bull Shoals 161 kV line overloads under contingency

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Southeastern Regional TRANSMISSION PLANNING

SERTP TRANSMISSION PROJECTS
AECI Balancing Authority Area

In-Service Year:	2028
Project Name:	**REBUILD THE 26.49 MILE LONG MORGAN-BROOKLINE 161 KV LINE WITH 795 ACSR RATED AT 100C**
Description:	Rebuild the 26.49 mile long Morgan-Brookline 161 kV line with 795 ACSR rated at 100C
Supporting Statement:	The Morgan - Brookline 161 kV line overloads under contingency

In-Service Year:	2025
Project Name:	**ALLEN STEAM STATION TRANSFORMER REPLACEMENT AND SOUTH POINT SWITCHING STATION**
Description:	To facilitate the generation retirement at Allen Steam Station, both 230/100 kV transformers need to be replaced with larger 448MVA units. Due to age and need for physically larger equipment to facilitate the larger transformers, the 100 kV at Allen Steam is being relocated to a new South Point Switching Station about 1 mile west of the site.
Supporting Statement:	Allen Steam Station transformers overload under contingency

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In-Service Year:	2025
Project Name:	**DAN RIVER CTCC STATION TO MEADOW GREEN RET**
Description:	Extend the Dan River CTCC Station to Meadow Green Retail 100 kV Transmission Line to help serve expected load growth in the region. This will require the rebuild of a portion of the Dan River Steam to APCO (Fieldale) 138kV Tie Line
Supporting Statement:	Expected load growth in the region requires the Dan River CTCC to Meadow Green Retail 100 kV Transmission Line to be extended.

In-Service Year:	2025
Project Name:	**HODGES TIE - CORONACA TIE 100 KV TRANSMISSION LINE**
Description:	Rebuild approximately 9.2 miles of the Hodges Tie - Coronaca Tie 100 kV transmission line with 795 ACSS/TW at 200°C
Supporting Statement:	The Hodes Tie - Coronaca Tie 100 kV transmission line can overload under contingencies

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In-Service Year:	2025
Project Name:	**LEE STEAM STATION - SHADY GROVE TIE 100 KV TRANSMISSION LINE (LEE CIRCUITS)**
Description:	Rebuild the entire Lee Steam Station - Shady Grove 100 kV Transmission Line (Lee circuits) with 1158 ACSS/TW at 200°C
Supporting Statement:	The Lee Steam Station - Shady Grove 100 kV Transmission Lines can overload under contingency

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In-Service Year:	2025
Project Name:	**MCDOWELL TIE 230/100 KV BANK 2 REPLACEMENT**
Description:	Replace existing bank 2 with new larger 448 MVA autotransformer
Supporting Statement:	Existing bank is approaching the end of its operatable life

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In-Service Year:	2025
Project Name:	**N GREENVILLE TIE - TRANSFORMER REPLACEMENT**
Description:	Replace existing Bank 1 with new larger 448 - MVA 230/100/44kV autobank. Replace existing 230 kV and 44 kV oil breakers with gas
Supporting Statement:	Existing N Greenville Tie Bank 1 can overload under contingency

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In-Service Year:	2025
Project Name:	**OAKBORO TIE - CUSTOMER DELIVERY 44KV TRANSMISSION LINE**
Description:	Rebuild 2.5 miles of the Oakboro Tie - Customer Delivery 44kV Line to double circuit and establish a new 100 kV line out of Oakboro Tie with 556 ACSR rated at 120 °C
Supporting Statement:	Large new customer cannot be reliably served by the existing 44 kV circuit. Rebuilding the 44 kV to double circuit allows for one circuit to be operated at 100 kV to provide sufficient service to the customer.

In-Service Year:	2025
Project Name:	**SCE&G (SALUDA DAM) - NEWBERRY TIE 100 KV TRANSMISSION LINES**
Description:	Rebuild the SCE&G (Saluda Dam) - Newberry Tie 115 kV Line up to the change of ownership with SCE&G with 1272 ACSR at 120°C
Supporting Statement:	Support future solar generation in the area and address potential contingency loading conditions on the SCE&G (Saluda Dam) - Newberry Tie 115 kV

In-Service Year:	2025
Project Name:	**WILKES TIE 230 KV SUBSTATION**
Description:	Install a new 230/100 kV, 448 MVA transformer at Wilkes Tie.
Supporting Statement:	Thermal overloads occur near North Wilkesboro Tie and additional voltage support is needed in the area under contingency.

In-Service Year:	2026
Project Name:	**BOYD SWITCHING STATION**
Description:	Construct a new 230 kV switching station along the Marshall Steam Station - Longview Tie 230 kV transmission line
Supporting Statement:	Expected new customer load growth in the region will require the construction of a new switching station to provide adequate support and reduce contingency loading on the Marshall Steam Station - Longview Tie 230 kV Transmission Lines

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In-Service Year:	2026
Project Name:	**BUSH RIVER TIE - LAURENS TIE 100 KV TRANSMISSION LINES**
Description:	Rebuild the full 29 miles of the Bush River Tie - Laurens Tie 100 kV double circuit line with 1272 ACSR at 120°C
Supporting Statement:	Support future solar generation in the area and address potential contingency loading conditions on the Bush River Tie - Laurens Tie 100 kV Transmission Line

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In-Service Year:	2026
Project Name:	**CRETO TIE TO CORONACA TIE 100 KV TRANSMISSION LINE**
Description:	Rebuild and add a second circuit to 8.9 miles of the single circuit Creto Tie to Coronaca Tie 100 KV transmission Line with 954 ACSR at 120°C.
Supporting Statement:	The Creto Tie - Coronaca Tie 100 kV transmission line can overload under contingency

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In-Service Year:	2026
Project Name:	**DIXON SCHOOL RD - CUSTOMER DELIVERY 230 KV TRANSMISSION LINE**
Description:	Construct a new 1.3 mile 230 kV line from Dixon School Rd to a customer delivery station with 954 ACSR rated at 120 °C
Supporting Statement:	New 230 kV line is needed to support a new customer delivery.

In-Service Year:	2026
Project Name:	**HAAS CREEK SWITCHING STATION**
Description:	Construct a new 230kV switching station along the Orchard Tie - Longview Tie 230 kV transmission line
Supporting Statement:	Large new customer requires the addition of a switching station to support their load growth.

In-Service Year:	2026
Project Name:	**LEE STEAM STATION - SHADY GROVE TIE 100 KV TRANSMISSION LINE (PIEDMONT CIRCUITS)**
Description:	Rebuild the entire Lee Steam Station - Shady Grove 100 kV Transmission Line (Piedmont circuits) with 1158 ACSS/TW at 200°C
Supporting Statement:	The Lee Steam Station - Shady Grove 100 kV Transmission Lines can overload under contingency

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In-Service Year:	2026
Project Name:	**LYLE CREEK SWITCHING STATION**
Description:	Construct a new 100 kV switching station along the Hickory Tie - Lookout Tie 100 kV Transmission Lines.
Supporting Statement:	Large new customer requires the addition of a switching station to support their load growth.

In-Service Year:	2026
Project Name:	**NORTH GREENSBORO TIE - GREENSBORO MAIN 100 KV TRANSMISSION LINES**
Description:	Rebuild both of the North Greensboro Tie - Greensboro Main 100 kV Transmission Lines with 1158 ACSS/TW at 200°C
Supporting Statement:	The North Greensboro - Greensboro Main 100 kV Transmission Lines can overload under contingency

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In-Service Year:	2026
Project Name:	**OAKVALE TIE - EAST GREENVILLE TIE 100 KV TRANSMISSION LINE**
Description:	Rebuild 4.5 miles (East Greenville to Verdae Retail) of the Oakvale Tie - East Greenville Tie 100 kV Double Circuit line with 1272 ACSR at 120°C
Supporting Statement:	The Oakvale Tie - East Greenville Tie 100 kV Transmission Line can overload under contingency

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In-Service Year:	2026
Project Name:	**WYLIE SWITCHING STATION - WOODLAWN TIE 100 KV TRANSMISSION LINE**
Description:	Reconductor 8 miles (Wylie Tie to Arrowood Retail) of the Wylie Tie - Woodlawn Tie 100 kV double circuit transmission line with bundled 477 ACSR at 120°C.
Supporting Statement:	The Wylie Tie - Woodlawn Tie 100 kV transmission line can overload under contingency

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In-Service Year:	2027
Project Name:	**HANDS MILL SWITCHING STATION**
Description:	Construct a new 230 kV switching station along the Newport Tie - Catawba Nuclear 230 kV transmission lines
Supporting Statement:	Large new customer requires the addition of a switching station to support their load growth.

In-Service Year:	2027
Project Name:	**LANCASTER MAIN - MONROE MAIN 100KV TRANSMISSION LINE**
Description:	Rebuild 23.8 miles of Lancaster Main - Monroe Main 100 kV double circuit transmission line with 1158 ACSS/TW rated at 200°C
Supporting Statement:	Lancaster Main - Monroe Main 100 kV transmission line can overload under contingency

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In-Service Year:	2027
Project Name:	**STATESVILLE TIE - MOORESVILLE TIE 44KV TRANSMISSION LINE**
Description:	Rebuild 7.9 miles (Statesville Tie - Perth Rd Retail Tap) of the Statesville Tie - Mooresville Tie 44kV line with 954 ACSR rated at 120 °C as double circuit, establishing a new 100 kV circuit out of Statesville Tie
Supporting Statement:	The existing Statesville Tie - Mooresville Tie 44kV Line can overload

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In-Service Year:	2029
Project Name:	**NEWPORT TIE - MORNING STAR TIE 230 KV TRANSMISSION LINE**
Description:	Add a second circuit to the Newport Tie - Morning Star Tie 230 kV Transmission Line by relocated the existing 100 kV circuit on the structures to a new 100 kV corridor and adding additional 954 ACSR conductors to complete the new circuit.
Supporting Statement:	Existing Newport Tie - Morning Star Tie 230 kV Transmission Line can overload under contingencies

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In-Service Year:	2030
Project Name:	**NORTH GREENVILLE TIE TO PISGAH TIE 100 KV TRANSMISSION LINE**
Description:	Rebuild 11.5 miles (North Greenville Tie to Marietta Tie) of the North Greenville Tie - Pisgah Tie 100 kV transmission line with 1272 ACSR at 120°C.
Supporting Statement:	The North Greenville Tie - Pisgah Tie 100 kV transmission can overload under contingencies

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In-Service Year:	2032
Project Name:	**MORNING STAR TIE EXPANSION**
Description:	Expand the 230 kV switchyard at Morning Star Tie to a full breaker and a half configuration and replace all three existing autobanks with new 230/100/44 kV 448MVA transformers.
Supporting Statement:	The addition of a second Sandy Ridge circuit requires the expansion of the 230 kV at Morning Star Tie. The existing banks at Morning Star can overload under contingencies

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In-Service Year:	2034
Project Name:	**DAN RIVER STEAM - NORTH GREENSBORO TIE 100 KV TRANSMISSION LINES**
Description:	Rebuild the entire Dan River Steam - North Greensboro 100 kV Transmission Lines (25.9 miles) with 1272 ACSR rated at 120 °C. Project listed as conceptual in the local transmission plan. Need date may shift in future.
Supporting Statement:	The Dan River Steam - North Greensboro Tie 100 kV Transmission Lines can overload under contingency

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In-Service Year:	2034
Project Name:	**DAN RIVER STEAM - SADLER TIE 100 KV TRANSMISSION LINES (REIDSVILLE CIRCUITS)**
Description:	Rebuild the entire Dan River Steam - Sadler Tie 100 kV Transmission Lines (Reidsville Circuits - 8.1 miles) with 1272 ACSR rated at 120 °C. Project listed as conceptual in the local transmission plan. Need date may shift in future.
Supporting Statement:	The Dan River Steam - Sadler Tie 100 kV Transmission Lines (Reidsville Circuits) can overload under contingency

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In-Service Year:	2034
Project Name:	**DAN RIVER STEAM - SADLER TIE 100 KV TRANSMISSION LINES (WOLF CREEK CIRCUITS)**
Description:	Rebuild the entire Dan River Steam - Sadler Tie 100 kV Transmission Lines (Wolf Creek Circuits - 8.2 miles) with 1272 ACSR rated at 120 °C
Supporting Statement:	The Dan River Steam - Sadler Tie 100 kV Transmission Lines (Wolf Creek Circuits) can overload under contingency

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In-Service Year:	2034
Project Name:	**HARRISBURG TIE - AMITY SWITCHING STATION 100 KV TRANSMISSION LINES**
Description:	Rebuild 6.45 miles (Harrisburg Tie to Structure 52.0) of the Harrisburg Tie - Amity Switching Station 100 kV Transmission line with 1272 ACSR at 120°C
Supporting Statement:	The Harrisburg Tie - Amity Switching Station 100 kV Transmission Lines can overload under contingency

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In-Service Year:	2034
Project Name:	**HARRISBURG TIE - CONCORD MAIN 100 KV TRANSMISSION LINES**
Description:	Rebuild 5.6 miles (Concord Main to Customer) of the Harrisburg Tie - Concord Main 100 kV double circuit transmission line with 1272 ACSR at 120°C. Project listed as conceptual in the local transmission plan. Need date may shift in future.
Supporting Statement:	The Harrisburg Tie - Concord Main 100 kV Transmission Lines can overload under contingency

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In-Service Year:	2034
Project Name:	**LOOKOUT TIE - MARSHALL STEAM 44 KV TRANSMISSION LINE**
Description:	Rebuild the Lookout Tie - Marshall Steam 44 kV Transmission line as double circuit with 954 ACSR rated at 120 °C. Establish a 100 kV circuit served out of Lookout Tie. Project listed as conceptual in the local transmission plan. Need date may shift in future
Supporting Statement:	The Lookout Tie - Marshall Steam 44kV Transmission line can experience Thermal and Voltage issues under periods of extreme weather conditions.

In-Service Year:	2034
Project Name:	**MARSHALL STEAM STATION - BOYD SWITCHING STATION 230 KV TRANSMISSION LINE**
Description:	Rebuild the entire 15 miles of the Marshall Steam to Boyd Switching Station 230 kV Line with bundled 1272 ACSR conductor rated at 120°C. Project listed as conceptual in the local transmission plan. Need date may shift in future.
Supporting Statement:	The Marshall Steam - Boyd Switching Station 230 kV T.L. can overload under contingency

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In-Service Year:	2034
Project Name:	**MCGUIRE NUCLEAR STATION - MARSHALL STEAM STATION 230 KV TRANSMISSION LINES**
Description:	Rebuild the entire McGuire Nuclear Station - Marshall Steam Station 230 kV Transmission lines with 1533 ACSS/TW rated at 200°C. Project listed as conceptual in the local transmission plan. Need date may shift in future.
Supporting Statement:	The McGuire Nuclear Station - Marshall Steam Station 230 kV Transmission lines can overload under contingency

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In-Service Year:	2034
Project Name:	**ORCHARD TIE - HICKORY TIE 100 KV TRANSMISSION LINES**
Description:	Rebuild 4.4 miles (Orchard Tie - Newton Tie Tap) of the Orchard Tie to Hickory Tie 100 kV Transmission Line with 1272 ACSR conductor rated at 120 °C. Project listed as conceptual in the local transmission plan. Need date may shift in future.
Supporting Statement:	The Orchard Tie - Hickory Tie 100 kV T.L. can overload under contingency

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In-Service Year:	2034
Project Name:	**PARKWOOD TIE - CUSTOMER STATION 100 KV TRANSMISSION LINE**
Description:	Extend the Parkwood Tie - Customer Station 8.75 miles and network with East Durham Tie. Conductor for the extension will be 1272 ACSR conductor rated at 120 °C. Project listed as conceptual in the local transmission plan. Need date may shift in future.
Supporting Statement:	To help address thermal loading issues throughout the region around Parkwood Tie, the Parkwood Tie - Customer Station will be extended and networked with East Durham Tie

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In-Service Year:	2034
Project Name:	**STAMEY TIE - LOOKOUT TIE 100 KV TRANSMISSION LINE**
Description:	Rebuild 5.4 miles (Lookout Tie - Customer Delivery) of the Stamey Tie - Lookout Tie 100 kV transmission line with bundled 954 ACSR rated at 120 °C
Supporting Statement:	The Stamey Tie - Lookout Tie 100 kV T.L. can overload under contingency

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In-Service Year:	2034
Project Name:	**STAMEY TIE - STATESVILLE TIE 100 KV TRANSMISSION LINE**
Description:	Rebuild the entire 6 miles of the Stamey Tie - Statesville Tie 100 kV Transmission line with 1272 ACSR conductor rated at 120 °C. Project listed as conceptual in the local transmission plan. Need date may shift in future.
Supporting Statement:	The Stamey Tie - Statesville Tie 100 kV T.L. can overload under contingency

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In-Service Year:	2034
Project Name:	**STONEWATER TIE - WESTFORK SWITCHING STATION 100 KV TRANSMISSION LINES**
Description:	Rebuild 3 miles (Wildcat Tie to Westfork Switching Station) of the Stonewater Tie - Westford Switching Station 100 kV Transmission Line with 1272 ACSR at 120°C. Project listed as conceptual in the local transmission plan. Need date may shift in future.
Supporting Statement:	The Stonewater Tie - Westfork Switching Station 100 kV transmission line can overload under contingency

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In-Service Year:	2034
Project Name:	**TIGER TIE - CAMPOBELLO TIE 100 KV TRANSMISSION LINE**
Description:	Rebuild the entire 11.8 miles of the Tiger Tie - Campobello Tie 100 kV transmission Line with 1272 ACSR conductor rated at 120 °C. Project listed as conceptual in the local transmission plan. Need date may shift in future.
Supporting Statement:	The Tiger Tie - Campobello Tie 100 kV T.L. can overload under contingency

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Southeastern Regional TRANSMISSION PLANNING

SERTP TRANSMISSION PROJECTS
DUKE CAROLINAS Balancing Authority Area

In-Service Year:	2034
Project Name:	**WINECOFF TIE - CONLEY SWITCHING STATION 100 KV TRANSMISSION LINE**
Description:	Rebuild 7.89 miles of the Winecoff Tie - Conely Switching Station 100 kV transmission line with 1272 ACSR at 120°C
Supporting Statement:	The Winecoff Tie - Conely Switching Station 100 kV transmission Lines can overload under contingency

In-Service Year:	2025
Project Name:	**ERWIN - FAYETTEVILLE 115 KV LINE, RECONDUCTOR TWO SECTIONS**
Description:	This project consists of rebuilding the SREMC Wade – Beard – Slocomb Tap portions of the Erwin – Fayetteville 115 kV Line using 795 ACSS/TW conductor or equivalent (approximately 9 miles).
Supporting Statement:	Approved DEP upgrade through NCUC as part of the plan to reach goals for renewable generation detailed in the Carolinas Carbon Plan.

In-Service Year:	2025
Project Name:	**FAYETTEVILLE – FAYETTEVILLE DUPONT 115 KV LINE, REBUILD 3.2 MILE SECTION, HOPE MILLS CHURCH ST - ROSLIN SOLAR**
Description:	Reconductor the Hope Mills Church St.-Roslin Solar section (3.2 miles) of the Fayetteville – Fay. DuPont SS 115 kV line with 795 ACSS/TW conductor.
Supporting Statement:	Fayetteville – Fayetteville Dupont 115 KV Line overloads under contingency.

In-Service Year:	2025
Project Name:	**MILBURNIE 230, UPGRADE EQUIPMENT AND REQUEST EMERGENCY RATING FOR 230/115 TRANSFORMERS**
Description:	Milburnie 230, Upgrade CT ratios and relay settings and request emergency ratings for Milburnie 230/115 kV banks 1&2
Supporting Statement:	Multiple contingencies cause the Milburnie 230/115 transformers to overload.

In-Service Year:	2025
Project Name:	**ROCKY MOUNT – BATTLEBORO 115 KV LINE, RECONDUCTOR**
Description:	Reconductor the entire Rocky Mount – VEPCO Battleboro 115 kV line, 8.54 miles, with 3-795 MCM ACSS/TW conductor.
Supporting Statement:	With generation in the PJM queue, the Rocky Mount – VEPCO Battleboro 115 kV line overloads under contingency.

In-Service Year:	2025
Project Name:	**SUMTER - SCE&G EASTOVER 115KV LINE, UPGRADE SWITCHES AND TERMINAL EQUIPMENT AT SUMTER 230 SUB**
Description:	Upgrade line switches, CT ratios, and relay settings at Sumter 230.
Supporting Statement:	Various outages cause the Sumter-Sumter Gold Kist Tap and Sumter Kings Highway-Shaw Field Tap section of the Sumter-Eastover 115 kV line to overload.

In-Service Year:	2025
Project Name:	**WEATHERSPOON - MARION 115 KV LINE, UPGRADE**
Description:	Reconductor a 6.45 mile section of the Weatherspoon - Marion 115kV line from LREMC Hog Swamp to Fairmont tap with 795 ACSS/TW conductor.
Supporting Statement:	Approved DEP upgrade through NCUC as part of the plan to reach goals for renewable generation detailed in the Carolinas Carbon Plan.

In-Service Year:	2026
Project Name:	**CAMDEN - CAMDEN DUPONT 115KV LINE, RECONDUCTOR**
Description:	Rebuild 0.73 miles (entire line) of the Camden – Camden Dupont 115kV line with 795 ACSS/TW
Supporting Statement:	Approved DEP upgrade through NCUC as part of the plan to reach goals for renewable generation detailed in the Carolinas Carbon Plan.

In-Service Year:	2026
Project Name:	**CAPE FEAR PLANT - WEST END 230 KV LINE, REBUILD**
Description:	This project consists of rebuilding the 1272 ACSR portions of the Cape Fear – West End 230 kV Line using 6-1590 MCM ACSR conductor (approximately 26.6 miles). Raise the 2515 ACSR sections to 212F maximum operating temperature (approximately 4.5 miles). Upgrade switches and terminal equipment.
Supporting Statement:	Various generator interconnection studies have shown the need to upgrade this line. This upgrade is needed for future generation proposed for compliance with the Carbon Plan goals.

In-Service Year:	2026
Project Name:	**CASTLE HAYNE-FOLKSTONE 115KV LINE, REBUILD**
Description:	Rebuild approximately 25.91 miles of 115 kV line with 1272 MCM ACSR or equivalent.
Supporting Statement:	The Castle Hayne 230 kV Sub-Folkstone 115 kV line overloads under contingency.

In-Service Year:	2026
Project Name:	**ERWIN - FAYETTEVILLE EAST 230 KV LINE, REBUILD**
Description:	Reconductor 23 miles of the Erwin - Fayetteville East 230 kV Line
Supporting Statement:	Approved DEP upgrade through NCUC as part of the plan to reach goals for renewable generation detailed in the Carolinas Carbon Plan.

In-Service Year:	2026
Project Name:	**FAYETTEVILLE - FAYETTEVILLE DUPONT 115 KV LINE, REBUILD 4.9 MILE SECTION, FAYETTEVILLE - HOPE MILLS CHURCH ST.**
Description:	This project consists of rebuilding the Fayetteville - Hope Mills Church St section of the Fayetteville – Fayetteville Dupont 115 kV Line using 795 ACSS/TW conductor or equivalent (approximately 4.9 miles).
Supporting Statement:	Approved DEP upgrade through NCUC as part of the plan to reach goals for renewable generation detailed in the Carolinas Carbon Plan.

In-Service Year:	2026
Project Name:	**HILL CREST (CARTHAGE AREA) 230 KV SUBSTATION, CONSTRUCT AND LOOP-IN CAPE FEAR-WEST END 230KV AND WEST END-SOUTHERN PINES 115KV FEEDER**
Description:	Construct a new Hill Crest 230/115 kV substation near the existing Carthage 115 kV substation. Loop in the existing Cape Fear–West End 230 kV line and West End–Southern Pines 115 kV feeder. The new Carthage 230–West End 115 kV line will be normally open at Carthage 230kV.
Supporting Statement:	Various contingencies cause overloads and low voltages in the area.

In-Service Year:	2026
Project Name:	**ROBINSON - ROCKINGHAM 230 KV LINE (STR 235 - CHERAW TAP), RECONDUCTOR**
Description:	This project consists of reconductoring Str. 235 - Cheraw Tap of the Robinson – Rockingham 230 kV Line using 6-1590 MCM ACSR conductor or equivalent (approximately 0.73 miles) and upgrading one switch
Supporting Statement:	This upgrade is an assigned network upgrade in the 2022 DISIS Phase 3 Interconnection Study

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In-Service Year:	2026
Project Name:	**ROBINSON - ROCKINGHAM 230 KV LINE, RECONDUCTOR 19.09 MILES**
Description:	This project consists of rebuilding portions of the Robinson – Rockingham 230 kV Line using 6-1590 MCM ACSR conductor or equivalent (approximately 19 miles).
Supporting Statement:	Approved DEP upgrade through NCUC as part of the plan to reach goals for renewable generation detailed in the Carolinas Carbon Plan.

In-Service Year:	2026
Project Name:	**SUMTER – SCEG EASTOVER 115 KV LINE (KINGS HWY – SHAW FIELD – EASTOVER), RECONDUCTOR**
Description:	Reconductor Sumter Kings Hwy - Shaw Field Tap and Shaw Field Tap - DESC Eastover sections of Sumter-Eastover 115 kV line to 1272 ACSR, 7.49 miles, and raise Sumter Gold Kist Tap - Str #427 to 212 F, 2.16 miles
Supporting Statement:	Various contingencies cause the Shaw Field Tap-Eastover section of the Sumter-Eastover 115 kV line to overload.

In-Service Year:	2027
Project Name:	**CAMDEN JUNCTION - DPC WATEREE 115 KV LINE, REBUILD**
Description:	This project consists of rebuilding the Camden Junction – DPC Wateree 115 kV Line using 795 ACSS/TW conductor or equivalent (approximately 5.27 miles).
Supporting Statement:	Approved DEP upgrade through NCUC as part of the plan to reach goals for renewable generation detailed in the Carolinas Carbon Plan.

In-Service Year:	2027
Project Name:	**HOLLY RIDGE NORTH 115 KV SWITCHING STATION, CONSTRUCT**
Description:	Construct a new 115kV Switching Station northeast of Holly Ridge, NC where the Castle Hayne-Folkstone 115 kV and Folkstone-Jacksonville City 115kV lines come together. Construct a new 115 kV feeder from the new switching station to JOEMC Folkstone POD.
Supporting Statement:	Multiple contingencies result in low voltages on the Castle Hayne–Folkstone 115 kV line.

In-Service Year:	2027
Project Name:	**ROBINSON PLANT - ROCKINGHAM 115 KV LINE, REBUILD 3 SECTIONS**
Description:	This project consists of rebuilding the Sneedsboro Solar - Cordova - Rockingham portions of the Robinson – Rockingham 115 kV Line using 795 ACSS/TW conductor or equivalent (approximately 17 miles).
Supporting Statement:	Approved DEP upgrade through NCUC as part of the plan to reach goals for renewable generation detailed in the Carolinas Carbon Plan.

In-Service Year:	2027
Project Name:	**WEATHERSPOON – LOF 115 KV LINE (MAXTON-PEMBROKE), RECONDUCTOR**
Description:	Reconductor 9 miles (near Pembroke - near Maxton) with 3-795 MCM ACSS/TW/HS. Install two new 2000A switches.
Supporting Statement:	The Maxton-Pembroke section of the Weatherspoon-LOF 115 kV Line overload under contingency.

In-Service Year:	2028
Project Name:	**DURHAM – RTP 230 KV LINE, RECONDUCTOR ONE SECTION**
Description:	Reconductor approximately 4.6 miles, from Durham to Brier Creek, of 230 kV line with 6–1590 ACSR conductor.
Supporting Statement:	This upgrade is needed to serve a new industrial customer load.

In-Service Year:	2028
Project Name:	**WEATHERSPOON - MARION 115 KV LINE, RAISE MARION - DILLON SECTION**
Description:	Raise the Marion - Dillon section, 14.6 miles, of the Weatherspoon - Marion 115 kV Line, to achieve 119 MVA summer rating
Supporting Statement:	This upgrade is an assigned network upgrade in the 2022 DISIS Phase 3 Interconnection Study.

In-Service Year:	2029
Project Name:	**ASHEBORO - SILER CITY 115 KV LINE, RECONDUCTOR ASHEBORO - SILER CITY 115 KV SUB**
Description:	Reconductor 22.66 mi of the Asheboro – Siler City 115 kV Line, from Asheboro 230 kV Sub to Siler City 115 kV Sub
Supporting Statement:	This upgrade is needed for the addition of new economic development load in Chatham County, NC

In-Service Year:	2029
Project Name:	**BRUSH CREEK 230 KV SUB, ADD CAPACITOR BANK**
Description:	Add Capacitor Bank to support voltage at Brush Creek 230 kV Sub
Supporting Statement:	This upgrade is needed for the addition of new economic development load in Chatham County, NC

In-Service Year:	2032
Project Name:	**FALLS – FRANKLINTON (FRANKLINTON – FRANKLINTON NOVO 115 KV FEEDER), CONSTRUCT**
Description:	Construct new line from Franklinton – Franklinton Novo 115 kV feeder. Project listed as conceptual in the local transmission plan. Need date may shift in future.
Supporting Statement:	Multiple contingencies cause low voltages at buses on the Franklinton-Spring Hope SS 115 kV line.

In-Service Year:	2032
Project Name:	**SUMTER - SCEG EASTOVER 115KV LINE, RECONDUCTOR THE SUMTER GOLD KIST TAP - SUMTER KINGS HWY SECTION**
Description:	Sumter - Eastover 115kV line, Reconductor the 397.5 ACSR portion (5.82 miles) of Sumter Gold Kist Tap - Sumter Kings Hwy section
Supporting Statement:	Multiple contingencies cause the Sumter Gold Kist Tap – Sumter Kings Hwy section of Sumter – Eastover 115kV line to overload.

In-Service Year:	2034
Project Name:	**ROCKINGHAM – WEST END 230 KV WEST LINE, RECONDUCTOR**
Description:	Reconductor the Rockingham-Wadesboro Tap section (7.96 miles) of the Rockingham – West End 230 kV West line. Project listed as conceptual in the local transmission plan. Need date may shift in future.
Supporting Statement:	Various outages cause the Rockingham-Wadesboro Tap section of the Rockingham – West End 230 kV West line to overload.

In-Service Year:	2025
Project Name:	**CRAGGY-ENKA 230 KV TRANSMISSION LINE**
Description:	Construct approximately 10.0 miles of new 230 kV transmission line from the Craggy 230 kV substation to the Enka 230 kV substation with 3-1590 MCM ACSR or equivalent.
Supporting Statement:	The Enka–West Asheville 115 kV line overloads under contingency.

In-Service Year:	2026
Project Name:	**ASHEVILLE PLANT – OTEEN WEST 115 KV TRANSMISSION LINE, ARDEN TAP**
Description:	This project consists of constructing approximately 2 miles of 1272 MCM ACSR tap line, double circuited with the East line, from structure #2 on the Asheville Plant-Oteen 115kV West line to Arden 115 kV Substation on the Asheville Plant-Oteen 115kV East Line.
Supporting Statement:	Various contingencies cause low voltages in the area.

In-Service Year:	2025
Project Name:	**BLUE LICK TO CEDAR GROVE TAP 161KV TRANSMISSION LINE**
Description:	Replace 0.1 miles of 795MCM 61XAA, 4.6 miles of 500MCM 19XCU conductor, and 795MCM 61XAA line risers and jumper in the Blue Lick to Cedar Grove 161kV line with 795MCM 26X7 ACSR or better.
Supporting Statement:	The Blue Lick to Cedar Grove Tap 161kV transmission line overloads.

In-Service Year:	2025
Project Name:	**MIDDLETOWN TO BUCKNER 345KV TRANSMISSION LINE**
Description:	Replace the 345kV 2000A breakers associated with the Middletown to Buckner 345kV line with 3000A breakers.
Supporting Statement:	The Middletown to Buckner 345kV line overloads under contingency.

In-Service Year:	2026
Project Name:	**PINEVILLE SW TO ARTEMUS 161KV TRANSMISSION LINE**
Description:	Replace the 600 amp switches (149-814L & 149-814B) at Pineville Switch associated with Pineville Sw-Artemus 161kV line and breaker 149-814 with 1200 amp switches.
Supporting Statement:	The Pineville Sw to Artemus 161kV line overloads under contingency.

In-Service Year:	2028
Project Name:	**BULLITT CO TO CEDAR GROVE TAP 161KV TRANSMISSION LINE**
Description:	Replace 1.6 miles of 795MCM 61XAA, on the Bullitt Co to Cedar Grove 161kV line with 795MCM 26X7 ACSR or better.
Supporting Statement:	The Bullitt Co to Cedar Grove Tap 161kV transmission line overloads.

In-Service Year:	2033
Project Name:	**ARTEMUS TAP TO FARLEY 161KV TRANSMISSION LINE**
Description:	Increase the Maximum Operating Temperature of 12.77 miles of 556.5 MCM 26x7 ACSR in the Artemus tap to Farley 161 kV line from 155F to 170F.
Supporting Statement:	The Artemus Tap to Farley 161kV line overloads under contingency.

In-Service Year:	2033
Project Name:	**NORTHSIDE TO CLIFTY TAP 138KV TRANSMISSION LINE**
Description:	Increase the Maximum Operating Temperature of the 336.4 MCM 26x7 ACSR of the Northside to Clifty Tap 138V from 176F to 212F.
Supporting Statement:	The Northside to Clifty Tap 138kV line overloads under contingency.

In-Service Year:	2034
Project Name:	**ARETMUS TAP TO PINEVILLE SW 161KV TRANSMISSION LINE**
Description:	Increase the Maximum Operating Temperature of 7.53 miles of 556.5 ACSR conductor in the Artemus tap to Pineville Sw 161 kV line from 176F to 212F.
Supporting Statement:	The Artemus Tap to Pineville Sw 161kV line overloads under contingency.

In-Service Year:	2034
Project Name:	**JEFFERSONTOWN TO WATTERSON 138KV TRANSMISSION LINE**
Description:	Replace 138 kV terminal equipment rated less than or equal to 1192 Amps (285 MVA) summer emergency rating associated with the Jefferson to Watterson 138 kV line with equipment capable of a minimum of 1451 Amps (347 MVA) summer emergency rating.
Supporting Statement:	The Jeffersontown to Watterson 138kV line overloads under contingency.

In-Service Year:	2034
Project Name:	**MIDDLETOWN TO MIDDLETOWN R 138KV TRANSMISSION LINE**
Description:	Replace 138kV terminal equipment rated less than or equal to 1083 Amps (259 MVA) summer emergency rating associated with the Middletown to Middletown R 138kV line with equipment capable of a minimum of 1200 Amps (287 MVA) summer emergency rating.
Supporting Statement:	The Middletown to Middletown R 138kV line overloads under contingency.

Southeastern Regional TRANSMISSION PLANNING

SERTP TRANSMISSION PROJECTS
LG&E/KU Balancing Authority Area

In-Service Year:	2034
Project Name:	**MIDDLETOWN TO TRIMBLE CO 345KV TRANSMISSION LINE**
Description:	Replace the 345 kV 2000A breakers and terminal equipment at Middletown and Trimble Co associated with the Middletown to Trimble Co 345 kV line (circuit 4541) with equipment capable of at least 2293A (1370 MVA) Summer Emergency.
Supporting Statement:	The Middletown to Trimble County 345kV line overloads under contingency.

In-Service Year:	2025
Project Name:	**ABBEVILLE TS - GEORGE DAM 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 9.5 miles of 397 ACSR at 100 °C of the Abbeville TS to George Dam 115 kV TL to 397 ACSS at 200° C
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2025
Project Name:	**ADAMSVILLE - JACK MCDONOUGH 230KV LINE REBUILD**
Description:	Rebuild the entire Adamsville - Jack McDonough 230kV line.
Supporting Statement:	The project provides necessary operational flexibility and resolves an overload on the Adamsville - Jack McDonough 230kV line under contingency.

In-Service Year:	2025
Project Name:	**ANTHONY SHOALS STATCOM SYSTEM**
Description:	Install a STATCOM at the Anthony Shoals substation.
Supporting Statement:	This project address increasing generation output at Russell Dam (SEPA).

In-Service Year:	2025
Project Name:	**BASSETT CREEK – OCTAGON 115 KV TRANSMISSION LINE**
Description:	Reconductor 0.89 miles of 397 ACSR 100°C to 795 ACSR 100°C from Bassett Creek TS – Fulton TS. Upgrade approximately 32 miles of 397.5 ACSR from Bassett Creek to Octagon 115 kV transmission line from 75°C to 125°C.
Supporting Statement:	The Bassett Creek to Thomasville 115 kV transmission line overloads under contingency.

In-Service Year:	2025
Project Name:	**CAPITOL HEIGHTS – CARTER HILL RD 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 2.5 miles of 556 AAC at 75°C from Capitol Heights – Carter Hill Rd to 795 ACSR at 100°C
Supporting Statement:	The Capitol Heights - Carter Hill Road 115 kV transmission line overloads under contingency.

In-Service Year:	2025
Project Name:	**CASS PINE- HILL VIEW 230 KV LINE- CC IMPROVEMENTS**
Description:	Build a new 230kV line between new Cass Pine and Hill View 230kV substations.
Supporting Statement:	The transmission network improvements are required to serve load growth in Cartersville area.

In-Service Year:	2025
Project Name:	**DEPTFORD - MAGNOLIA 115KV RECONDUCTOR**
Description:	Reconductor approximately 5 miles of the Deptford - Magnolia 115kV line.
Supporting Statement:	The Deptford - Magnolia 115kV line overloads under contingency.

In-Service Year:	2025
Project Name:	**ECHECONNEE - WELLSTON 115KV REBUILD**
Description:	Rebuild approximately 1.2 miles of the Echeconnee - Wellston 115kV line.
Supporting Statement:	The Echeconnee - Wellston 115kV line overloads under contingency.

In-Service Year:	2025
Project Name:	**GRID - BREMEN - CROOKED CREEK 115KV PROJECT**
Description:	Rebuild approximately 14 miles of the Bremen - Crooked Creek 115kV line.
Supporting Statement:	The Bremen - Crooked Creek 115kV line overloads under contingency.

In-Service Year:	2025
Project Name:	**GTC: ANTHONY SHOALS - WASHINGTON 115KV LINE REBUILD**
Description:	Rebuild approximately 21 miles of the Anthony Shoals – Washington 115kV line.
Supporting Statement:	The Anthony Shoals – Washington 115kV line overloads under contingency.

In-Service Year:	2025
Project Name:	**GTC: BANKS CROSSING - POND FORK 115 KV**
Description:	GTC will build a new line 115kV transmission line in the area.
Supporting Statement:	The Ridgeway Jct. - East Maysville Jct. line section overloads under contingency.

In-Service Year:	2025
Project Name:	**GTC: BONAIRE PRI-ECHECONNEE 115KV (BONAIRE-RUSSELL PKWY) REBUILD**
Description:	Rebuild approximately 2.3 miles of the Bonaire Primary - Echeconnee 115kV line.
Supporting Statement:	The Bonaire Primary - Echeconnee 115kV line overloads under contingency.

In-Service Year:	2025
Project Name:	**GTC: CAMDEN INDUSTRIAL PARK (GPC)**
Description:	This project will loop in GPC's existing Colerain to Thalman 230kV line into GTC's new Camden Industrial Park station. GPC's Kingsland termination at GTC's Kinlaw sub will be relocated to a new 115kV bay position.
Supporting Statement:	The transmission network improvements are required to serve load growth in the Brunswick area.

In-Service Year:	2025
Project Name:	**GTC: CAMDEN INDUSTRIAL PARK 230/115KV NEW SUBSTATION**
Description:	GTC will construct Camden Industrial Park, a new 230/115kV substation. Also, this project will construct a new 115kV line between Kinlaw and Camden Industrial Park.
Supporting Statement:	The transmission network improvements are required to serve load growth in the Brunswick area.

In-Service Year:	2025
Project Name:	**GTC: EATONTON PRIMARY - LICK CREEK 115KV LINE SWITCH REPLACEMENT**
Description:	Replace RLB line switch on the Eatonton - Lake Oconee 115kV line with motor operator and SCADA controls.
Supporting Statement:	Project needed to support the conversion of the 46kV North Eatonton substation to 115kV.

In-Service Year:	2025
Project Name:	**GTC: HEARD COUNTY - TENASKA 500KV (SECOND LINE)**
Description:	GTC: Build a second Heard County - Tenaska 500kV line, 0.8 miles. Add a 500kV ring bus breaker at Heard County.GPC: Add a 500kV ring - bus breaker at Tenaska.
Supporting Statement:	This project resolves multiple overloads and improves system reliability.

In-Service Year:	2025
Project Name:	**GTC: THALMANN AND COLERAIN 23O KV LINE RELAY PANEL UPGRADES**
Description:	Relay protection modifications at GPC's Thalmann and Colerain substations to match relay scheme used at GTC's new Camden Industrial Park 230/115kV substation.
Supporting Statement:	The transmission network improvements are required to serve load growth in the Brunswick area.

In-Service Year:	2025
Project Name:	**GULFPORT LANDON – COOPERATIVE ENERGY LANDON TAP 115 KV TRANSMISSION LINE REBUILD**
Description:	Rebuild approximately 5.5 mile, 115 kV transmission line between Gulfport Landon substation and Cooperative Energy's Landon Tap with 1351 ACSR at 100°C.
Supporting Statement:	The Gulfport Landon - Cooperative Energy's Landon Tap 115 kV overloads under contingency.

In-Service Year:	2025
Project Name:	**INSTALLATION OF POWER FLOW CONTROLLERS AT EATONTON PRIMARY**
Description:	Installation of power flow controllers inside the Eatonton Primary substation on the Branch - Oasis 230kV and Eatonton Primary - Oasis 230kV lines.
Supporting Statement:	This project addresses multiple thermal constraints in the area that occur under contingency.

In-Service Year:	2025
Project Name:	**JEFFERSON STREET#3 - NORTHWEST (WHITE) 115KV REBUILD**
Description:	Rebuild approximately 1.2 miles of the Jefferson Street #3 - Northwest 115kV White line.
Supporting Statement:	The Jefferson Street #3 - Northwest 115kV White line overloads under contingency.

In-Service Year:	2025
Project Name:	**JESUP - LUDOWICI 115KV LINE REBUILD**
Description:	Rebuild approximately 7.5 miles of the Jesup - North Jesup - Rayonier section of the Jesup - Ludowici 115kV line.
Supporting Statement:	The Jesup - Ludowici 115kV line overloads under contingency.

In-Service Year:	2025
Project Name:	**LITTLE OGEECHEE 115KV : RELAY MODERNIZATION**
Description:	Install additional 115kV bus current differential protection scheme for 115kV busses at Little Ogeechee.
Supporting Statement:	The project addresses stability issues on the transmission network caused by a multiple contingency events.

In-Service Year:	2025
Project Name:	**MEAG: ALCOVY ROAD - SKC 115KV RECONDUCTOR**
Description:	MEAG will reconductor approximately 0.53 miles of the Alcovy Road - SKC 115kV line.
Supporting Statement:	The Alcovy Road - SKC 115kV transmission line overloads under contingency.

In-Service Year:	2025
Project Name:	**MEAG: AULTMAN ROAD - BONAIRE PRIMARY 115KV REBUILD**
Description:	MEAG: Rebuild the 1.99 miles of Sleepy Hollow - Peach Blossom 115 kV line section of the Aultman Road - Bonaire Primary 115kV line. GTC: Replace the jumpers at Sleepy Hollow.
Supporting Statement:	The Aultman Road - Bonaire Primary 115kV line overloads under contingency.

In-Service Year:	2025
Project Name:	**MITCHELL - NORTH TIFTON 230KV REBUILD**
Description:	Rebuild approximately 35.21 miles of the Mitchell - North Tifton 230kV line.
Supporting Statement:	The Mitchell - North Tifton 230kV line overloads under contingency.

In-Service Year:	2025
Project Name:	**NORCROSS 230KV BUS 1-3 SERIES BUS TIE BREAKER INSTALLATION**
Description:	Install a bus tie breaker in series with the existing bus tie breaker at Norcross substation.
Supporting Statement:	The Norcross 230/115kV auto transformer and the Norcross #3 - Northwoods 115kV line overload under contingency.

In-Service Year:	2025
Project Name:	**NORTH SELMA – SELMA #2 115 KV TRANSMISSION LINE**
Description:	Rebuild approximately 17 miles of 397 ACSR at 100 °C of North Selma Tap – Vida TS 115 kV TL to 795 ACSS at 200° C
Supporting Statement:	Provides additional operational and maintenance flexibility which then increases reliability.

In-Service Year:	2025
Project Name:	**PINE GROVE PRIMARY 115KV DUAL STAGE CAPACITOR BANK**
Description:	Install a Capacitor bank at Pine Grove Primary.
Supporting Statement:	Project addresses voltage issues in the area due to a contingency.

In-Service Year:	2025
Project Name:	**PROJECT CHRONOS TRANSMISSION SERVICE**
Description:	New station and loop it into a 230kV line to serve a customer choice project in the Cartersville area.
Supporting Statement:	The transmission network upgrades under this project are required to reliably serve load growth in the Cartersville area.

In-Service Year:	2025
Project Name:	**PS: ELSANOR-MIFLIN 115KV SECOND LINE**
Description:	Construct approximately 12 miles of new 115kV transmission line from Elsanor to Miflin with 795 ACSR/AW at 100°C.
Supporting Statement:	The existing Elsanor-Miflin 115kV transmission line overloads under contingency.

In-Service Year:	2025
Project Name:	**PS: EREC 115KV CONVERSION**
Description:	This project will convert 21.36 miles of 46kV transmission to 115kV operation. Three 46kV distribution delivery points will also be upgraded to 115kV service as part of the project.
Supporting Statement:	To support additional load growth in the Santa Rosa County, FL area.

In-Service Year:	2025
Project Name:	**PS: GRACEVILLE - HOLMES CREEK 115KV TRANSMISSION LINE**
Description:	Construct approximately 1.08 miles of new 115 kV transmission line from PowerSouth's Graceville Switching Station to FPL's Homes Creek Station using 795 ACSR conductor at 100°C design operating temperature.
Supporting Statement:	Improves voltage support for delivery points on PowerSouth system in the area.

In-Service Year:	2025
Project Name:	**SAVANNAH AREA TRANSMISSION NETWORK UPGRADES**
Description:	Construct a new 230kV customer substation. Construct a new Newton Rd 230kV substation and loop through the Little Ogeechee - Meldrim Black and White 230kV lines. Build two new 230kV lines connecting from customer station to Newton Rd (12 miles) and from customer station to Meldrim (10 miles). At Meldrim, add a breaker to accommodate for the new customer line. Install a 115/25kV bank at Interstate Centre and build a new 115kV line from Interstate Centre to customer station (2.3 miles) for bridge power.
Supporting Statement:	The network upgrades under this project are required to reliably serve load in the Savannah area.

In-Service Year:	2025
Project Name:	**SILVERHILL TS 3RD AUTOBANK**
Description:	Add 3rd 230/115 kV Autobank at Silverhill TS during infrastructure project.
Supporting Statement:	The Silverhill 230/115 kV autobank overloads under contingency.

In-Service Year:	2025
Project Name:	**VILLA RICA LOW SIDE BREAKER**
Description:	Replace a low side breaker at Villa Rica.
Supporting Statement:	The breaker overloads under a contingency.

In-Service Year:	2025
Project Name:	**WEBB – BLAKELY (GPC) 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 10.5 miles of 397 ACSS at 160 °C of the Webb to Blakely (GPC) 115kV TL to 795 ACSS at 200° C.
Supporting Statement:	The Webb - Blakely 115 kV transmission line overloads under contingency.

In-Service Year:	2025
Project Name:	**WEBB TS STATCOM**
Description:	Installation of a +/- 150 Mvar STATCOM at Webb TS (230kV)
Supporting Statement:	Provides reactive and stability support under contingency for the area.

In-Service Year:	2026
Project Name:	**ADAMSVILLE - BUZZARD ROOST 230KV REBUILD AND JUMPER UPGRADE**
Description:	Rebuild approximately 8.1 miles of the Adamsville - Buzzard Roost 230kV line. Upgrade limiting elements at substations along the line.
Supporting Statement:	The Adamsville - Buzzard Roost 230kV line overloads under contingency.

In-Service Year:	2026
Project Name:	**BIG OGEECHEE 500/230KV NEW SUBSTATION (CC NETWORK IMPROVEMENTS)**
Description:	Construct a new 500/230kV substation near Little Ogeechee substation, loop in the nearby 500kV and 230kV lines, and construct a new 230kV line to Little Ogeechee substation.
Supporting Statement:	The 500/230kV West McIntosh auto transformers exceed their ratings under contingency.

In-Service Year:	2026
Project Name:	**BLANKETS CREEK – WOODSTOCK 115KV LINE REBUILD**
Description:	Rebuild the entire Blankets Creek - Woodstock 115kV line with higher capability conductors.
Supporting Statement:	The Blankets Creek – Woodstock 115kV transmission line overloads under contingency.

In-Service Year:	2026
Project Name:	**BOULEVARD - DEPTFORD 115KV RECONDUCTOR**
Description:	Reconductor the entire Boulevard - Deptford 115kV line. Replace limiting element at substation along the line.
Supporting Statement:	The Boulevard-Deptford 115kV line overloads under contingency.

In-Service Year:	2026
Project Name:	**CASS PINE 230/25 NEW SUB - QCELLS - CC IMPROVEMENTS**
Description:	Build a new 230/25kV ring bus networked substation named Cass Pine that will interconnect between new Great Valley and Hill View 230kV substations.
Supporting Statement:	The transmission network improvements are required to serve load growth in Cartersville area.

In-Service Year:	2026
Project Name:	**DRESDEN LINE PROTECTIVE RELAYING**
Description:	On the Ohara - Wansley 500kV line, replace protective relaying equipment.
Supporting Statement:	The Ohara - Wansley 500kV line will be split by the new Dresden - Talbot Co 500kV line and the relay panels needs to be replaced to allow for the new Dresden substation.

In-Service Year:	2026
Project Name:	**DU: EAST DALTON - OOSTANAULA 115KV REBUILD**
Description:	Rebuild the portion of East Dalton - Oostanaula and Dalton - East Dalton 115kV double circuit lines between East Dalton substation and the Dalton substation frame.
Supporting Statement:	The East Dalton - Oostanaula 115KV line overloads under contingency.

In-Service Year:	2026
Project Name:	**EAST POINT RELAY MODERNIZATION**
Description:	Upgrade protection scheme at the East Point station.
Supporting Statement:	The project addresses stability issues in the transmission network caused by multiple contingencies.

In-Service Year:	2026
Project Name:	**FAYETTEVILLE AREA TRANSMISSION NEEDS**
Description:	To serve load growth, a new 500/230kV station will be built with two 500/230kV auto transformers. Two new 230kV lines will be built from the new 500/230kV station to the high side of customer substations.
Supporting Statement:	The new 500/230kV substation and the new 230kV lines are needed to reliably serve load in the Fayetteville area.

In-Service Year:	2026
Project Name:	**FENWICK STREET - SAND BAR FERRY 115KV (RECONDUCTOR)**
Description:	Reconductor approximately 2.72 miles of the Fenwick Street - Sand Bar Ferry 115kV line.
Supporting Statement:	The Fenwick Street - Sand Bar Ferry 115kV line overloads under contingency.

In-Service Year:	2026
Project Name:	**FULLER ROAD - COLUMBUS FIRST AVE 115 KV TL RECONDUCTOR**
Description:	Reconductor approximately 3 miles of 397 ACSR 115 kV TL at 100°C to 397 ACSS 26/7 at 200°C from Columbus First Ave to Phenix Lumber
Supporting Statement:	The Fuller Road - Columbus First Avenue 115 kV transmission line overloads under contingency.

In-Service Year:	2026
Project Name:	**GARRETT ROAD SWITCHING STATION - TRAE LANE NETWORK UPGRADES**
Description:	Build the new Garrett Road 230kV switching station splitting the Villa Rica - West Marietta 230kV line. Build a new 230kV line (8.6 miles) from the Trae Lane substation to the Garrett Road switching substation.
Supporting Statement:	The transmission network improvements are required to serve load growth in Douglas County.

In-Service Year:	2026
Project Name:	**GOAT ROCK - NORTH OPELIKA 230 KV TRANSMISSION LINE UPGRADE**
Description:	Upgrade the approximately 17.2 mile section of line from North Opelika to Goat Rock to operate at 100°C
Supporting Statement:	The Goat Rock - North Opelika 230 kV transmission line overloads under contingency.

In-Service Year:	2026
Project Name:	**GOAT ROCK 230KV SWITCH & JUMPER REPLACEMENT**
Description:	Upgrade limiting elements at Goat Rock substation on the Goat Rock - North Opelika 230kV line.
Supporting Statement:	The Goat Rock - North Opelika 230kV transmission line overloads under contingency.

In-Service Year:	2026
Project Name:	**GOAT ROCK 230KV SWITCH, JUMPER, & LINE TRAP REPLACEMENT**
Description:	Replace limiting elements at Goat Rock 230kV substation.
Supporting Statement:	The Goat Rock - North Opelika 230kV line overloads under contingency.

In-Service Year:	2026
Project Name:	**GORDON-N DUBLIN 115KV (GORDON-ENGL MCI J) REBUILD**
Description:	Rebuild approximately 5.9 miles of the Gordon - North Dublin 115kV line.
Supporting Statement:	The Gordon - North Dublin 115kV line overloads under contingency.

In-Service Year:	2026
Project Name:	**GRADY 230/115KV NEW BREAKER AND RELAY MODERNIZATION**
Description:	Upgrade protection scheme, install a breaker and associated switches at Grady substation.
Supporting Statement:	The project addresses stability issues in the transmission network caused by multiple contingencies. It also addresses thermal overload on the Grady - Morrow 115kV White line under contingency.

In-Service Year:	2026
Project Name:	**GRADY-WEST END 115KV LINE RECONDUCTOR**
Description:	Reconductor the entire 2.6 mile Grady - West End 115kV line.
Supporting Statement:	The Grady - West End 115kV line overloads under contingency.

In-Service Year:	2026
Project Name:	**GRID - GAINESVILLE #2 EQUIPMENT REPLACEMENT**
Description:	Replace 230/115kV auto transformers at Gainesville #2.
Supporting Statement:	The auto transformers at Gainesville #2 overload under contingency.

In-Service Year:	2026
Project Name:	**GTC: BARNESVILLE PRIMARY - BARNESVILLE #1 115KV RECONDUCTOR**
Description:	Rebuild the Barnesville Primary - Barnesville #1 segment on the Barnesville Primary - Lamar County Industrial 115kV line.
Supporting Statement:	Increased capacity on the line is required due to generation changes.

In-Service Year:	2026
Project Name:	**GTC: DRESDEN 500KV BUS EXPANSION**
Description:	Expand the Dresden 500kV bus to bring additional 500kV lines into the station.
Supporting Statement:	This project will resolve multiple thermal constraints by eliminating a contingency.

In-Service Year:	2026
Project Name:	**GTC: GORDON - SANDERSVILLE #1 115KV LINE REBUILD**
Description:	Rebuild approximately 1.87 miles of the Gordon - Sandersville #1 115kV line.
Supporting Statement:	The Gordon - Sandersville #1 115kV transmission line overloads for base case conditions.

In-Service Year:	2026
Project Name:	**GTC: LAGRANGE - NORTH OPELIKA 230KV**
Description:	Build a new 230kV line from Lagrange to North Opelika (APC).
Supporting Statement:	This project resolves multiple overloads and improves system reliability

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In-Service Year:	2026
Project Name:	**GTC: LIZARD LOPE - WESTOVER 115KV NEW LINE**
Description:	Construct two new 115kV stations, Lizard Lope and Westover, and build a new 115kV line (approximately 19.8 miles) from Lizard Lope to Gillionville Substation.
Supporting Statement:	The Dawson Primary - Palmyra 115kV line overloads under contingency.

In-Service Year:	2026
Project Name:	**GTC: MORNING HORNET 2ND 230/115KV BANK & THUMBS UP 115KV TRANSMISSION LINE**
Description:	Add a second 230/115kV auto transformer at Morning Hornet substation. Also, build a new 115kV line from Morning Hornet to Thumbs Up, approximately 2.4 miles.
Supporting Statement:	The East Social Circle - Stanton Springs 115kV and Morning Hornet - Thumbs Up 115kV lines overload under contingency.

In-Service Year:	2026
Project Name:	**GTC: ROBINS SPRING BUS REPLACEMENT**
Description:	Upgrade limiting element at Robins Spring substation.
Supporting Statement:	The Gordon - Sandersville #1 115kV transmission line overloads under contingency.

In-Service Year:	2026
Project Name:	**GTC: ROBINS SPRING CAPACITOR BANK INSTALLATION**
Description:	Install a 115kV 2-stage capacitor bank at Robins Spring
Supporting Statement:	There are low voltage issues on several buses of the Gordon-Sandersville #1 115kV transmission line under contingency

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In-Service Year:	2026
Project Name:	**HAMMOND – WEISS DAM 115KV LINE REBUILD**
Description:	Rebuild 11.2 miles of Hammond - Weiss Dam 115kV from Hammond to the APC border with a higher capability conductor.
Supporting Statement:	The Hammond - Weiss Dam 115kV line overloads under contingency.

In-Service Year:	2026
Project Name:	**HOPE HULL AREA SOLUTION**
Description:	Reconductor approximately 2.7 miles of 397 ACSR from Hope Hull Tap to Hyundai PT with 795 ACSS at 200°C.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2026
Project Name:	**HURRICANE CREEK: REPLACE 230/115 KV AUTOBANK & RING CONVERSION**
Description:	Replace 224 MVA autobank with a 400 MVA autobank and convert straight bus to a ring bus configuration
Supporting Statement:	Hurricane Creek 230/115 kV auto bank overloads under contingency.

In-Service Year:	2026
Project Name:	**JORDAN DAM - MARTIN DAM 115 KV TL (LINE B)**
Description:	Reconductor approximately 21 miles of 397 ACSR with 795 ACSS at 200°C between Jordan Dam and Martin Dam 115 kV TL (Line B).
Supporting Statement:	The Jordan Dam - Martin Dam 115 kV transmission line overloads under contingency.

In-Service Year:	2026
Project Name:	**KATHLEEN AREA TRANSMISSION IMPROVEMENTS**
Description:	Rebuild the Kathleen - Pitts 230kV line (approximately 1.5 miles). Rebuild the Bonaire Primary - Kathleen 230kV line (approximately 6 miles). Upgrade limiting elements at substation along the Kathleen - Pitts 230kV line.
Supporting Statement:	This project addresses multiple thermal constraints that occur under contingency.

In-Service Year:	2026
Project Name:	**KLONDIKE RELAY MODERNIZATION**
Description:	Upgrade protection scheme at the Klondike station.
Supporting Statement:	The project addresses stability issues in the transmission network caused by multiple contingencies.

In-Service Year:	2026
Project Name:	**LAGRANGE - NORTH OPELIKA TS NEW 230 KV TL**
Description:	APC: Construct approximately 14 miles 230 kV TL between North Opelika TS & new metering station, West Point SS utilizing 1351 54/19 ACSR @ 100°C.
Supporting Statement:	This project resolves multiple overloads and improves system reliability

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In-Service Year:	2026
Project Name:	**MCINTOSH - PURRYSBURG 230KV REACTORS**
Description:	Install reactors on the McIntosh - Purrysburg (Black and White) 230kV tie lines at McIntosh. Rebuild 0.1 miles (GPC portion) for both lines to (2) 200C 1351 ACSS conductor.
Supporting Statement:	The McIntosh - Purrysburg 230kV (Black & White) tie lines overload under contingency and supports transfer capability.

In-Service Year:	2026
Project Name:	**MEAG: DRESDEN - LAGRANGE PRIMARY 230KV UPGRADE & JUMPERS**
Description:	Resag the Dresden - LaGrange Primary 230kV line and upgrade limiting elements at substations along the line.
Supporting Statement:	The Dresden - Lagrange Primary 230kV line overloads under contingency.

In-Service Year:	2026
Project Name:	**MEAG: RAY PLACE RD - WASHINGTON #3 115KV LINE REBUILD**
Description:	Rebuild approximately 17.4 miles of the Ray Place Rd - Washington 115kV line and upgrade limiting elements at substation along the line.
Supporting Statement:	The Ray Place Rd - Washington 115kV line overloads under contingency.

In-Service Year:	2026
Project Name:	**MEAG: RAY PLACE RD - WASHINGTON (WASHINGTON - WASHINGTON 3) 115KV LINE REBUILD**
Description:	Rebuild approximately 1.2 miles of the Ray Place Rd - Washington 115kV line. Upgrade limiting element at substation along the line.
Supporting Statement:	Ray Place Rd - Washington 115kV line overloads under contingency.

In-Service Year:	2026
Project Name:	**MORROW - MOUNTAIN VIEW 115KV LINE REBUILD**
Description:	Rebuild a 1.7 mile segment of the Morrow - Mountain View 115kV line with higher rated conductor.
Supporting Statement:	The Morrow - Mountain View 115kV line overloads under contingency.

In-Service Year:	2026
Project Name:	**MORROW 115KV RELAY UPGRADE**
Description:	Upgrade protection scheme at the Morrow substation.
Supporting Statement:	A multiple contingency event causes stability issues in the transmission network.

In-Service Year:	2026
Project Name:	**MOSS POINT EAST – PASCAGOULA BAYOU CASOTTE 115 KV TRANSMISSION LINE**
Description:	Construct approximately 2.7 miles of new 1033.5 ACSR 115 kV transmission line at 100°C from Moss Point East and connect into the existing BP Amoco to Pascagoula Bayou Cassotte 115 kV transmission line.
Supporting Statement:	The Moss Point East to Pascagoula MS Chemical 115 kV transmission line overloads under contingency.

In-Service Year:	2026
Project Name:	**NASA NORTH SS - MOONSHOT SOLAR 115 KV TRANSMISSION LINE**
Description:	Rebuild approximately 5.25 mile, 115 kV transmission line with 1033 ACSR at 100°C.
Supporting Statement:	The NASA North SS - Moonshot Solar 115 kV transmission line overloads under contingency.

In-Service Year:	2026
Project Name:	**OHARA BREAKER REPLACEMENT**
Description:	Replace 115kV breaker at the Ohara Substation.
Supporting Statement:	Breaker replacement needed due to a negative duty margin.

In-Service Year:	2026
Project Name:	**PALMYRA REACTOR REMOVAL**
Description:	Remove the reactor at Palmyra.
Supporting Statement:	A permanent solution makes the reactor at Palmyra unnecessary.

In-Service Year:	2026
Project Name:	**PROJECT PAYTON BAINBRIDGE**
Description:	Split Farley - South Bainbridge 230kV line with a 230kV station (Dothan Road) and bring a 230kV line from Dothan Rd to new customer sub Downrange. Bring another 230kV line from Climax to customer sub Downrange.
Supporting Statement:	The transmission network improvements are required to serve load growth in the area.

In-Service Year:	2026
Project Name:	**SCOTTDALE RELAY MODERNIZATION**
Description:	Upgrade protection scheme at Scottdale substation.
Supporting Statement:	The project addresses stability issues in the transmission network caused by multiple contingencies.

In-Service Year:	2026
Project Name:	**STONEWALL TELL ROAD NETWORK UPGRADES**
Description:	Build 230kV line segment to loop in the Stonewall Tell Road customer station into the East Point - Union City 230kV Black line.
Supporting Statement:	The project is required to serve load growth in Union City the area.

In-Service Year:	2026
Project Name:	**SUNNY SOUTH CAPACITOR BANK**
Description:	Install 1 - 15 Mvar, 115 kV harmonic filter bank at Sunny South SS
Supporting Statement:	Low voltage in the area under contingency. This project provides voltage support under contingency scenarios.

In-Service Year:	2026
Project Name:	**UNION CITY - YATES 230KV (WHITE) SWITCH AND TRAP REPLACEMENT**
Description:	Replace the limiting elements along the Union City - Yates 230kV (White) line.
Supporting Statement:	The Union City - Yates 230kV (White) line overloads under contingency.

In-Service Year:	2026
Project Name:	**UNION CITY - YATES 230KV WHITE LINE REBUILD**
Description:	Rebuild the entire Union City - Yates 230kV White line with higher rated conductor (23.4 miles).
Supporting Statement:	The Union City - Yates 230kV White line overloads under contingency.

In-Service Year:	2026
Project Name:	**WEST TECH CAPACITOR BANKS**
Description:	Install two new 115kV, 15MVAR capacitors at West Tech
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2027
Project Name:	**ANNISTON-BYNUM 115 KV UPGRADE**
Description:	Upgrade 6.5 miles from Coldwater – Anniston from 1351 ACSS 54/19 170°C to 200°C
Supporting Statement:	The Anniston - Bynum 115 kV transmission line overloads under contingency.

In-Service Year:	2027
Project Name:	**ATHENA - EAST WATKINSVILLE 115KV (REBUILD)**
Description:	Rebuild approximately 2.42 miles of the Athena - East Watkinsville 115kV line.
Supporting Statement:	The Athena - East Watkinsville 115kV line overloads under contingency.

In-Service Year:	2027
Project Name:	**AUTAUGAVILLE - EAST PELHAM NEW 230 KV TRANSMISSION LINE**
Description:	Construct approximately 75 miles new 230 kV transmission line bundled 795 26/7 ACSS 200°C from Autaugaville TS to East Pelham TS
Supporting Statement:	The Bessemer – South Bessemer 230 kV transmission line overloads under contingency. Reduces multiple 230 kV line loadings and provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2027
Project Name:	**BESSEMER – SOUTH BESSEMER 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 2 miles of 115 kV TL from McAdory Tap – Airport Lane Tap from 397 ACSR to 795 ACSR 26/7 at 100C
Supporting Statement:	The Bessemer - South Bessemer 115 kV transmission line overloads under contingency.

In-Service Year:	2027
Project Name:	**DOYLE - LG&E MONROE 230KV - JACKS CREEK LOOP IN**
Description:	Loop in and out the new Jack's Creek 230kV switching station into the Doyle - LG&E Monroe 230kV line.
Supporting Statement:	Contingencies of 230kV transmission lines in the area causes several 230kV lines to overload.

In-Service Year:	2027
Project Name:	**DYER ROAD - EAST ROANOKE 115KV REBUILD**
Description:	Rebuild 20.7 miles from Dyer Road to Wansley tap on the Dyer Road - East Roanoke (APC) 115kV line.
Supporting Statement:	The Dyer Road - East Roanoke (APC) 115kV line overloads under contingency.

In-Service Year:	2027
Project Name:	**ELLENWOOD NETWORK IMPROVEMENTS**
Description:	Rebuild sections of the Austin Drive - Morrow 115kV line.
Supporting Statement:	New data center load causes the Morrow - Ellenwood - Customer substation (Williamson Road) sections overload under contingency.

In-Service Year:	2027
Project Name:	**EMBLEM RIVERSIDE CUSTOMER SUB (FLEXENTIAL)**
Description:	A new customer substation is being built in Metro West along with an Fiber ICON ring to better protect the area.
Supporting Statement:	This is necessary to serve customer load in Douglas County and additional protection to the area.

In-Service Year:	2027
Project Name:	**ENTERPRISE TS – PINCKARD #2 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 7.5 miles of 266 ACSR at 100 °C from Enterprise to Daleville DS to 795 ACSR at 100° C
Supporting Statement:	The Enterprise - Pinckard #2 115 kV transmission line overloads under contingency.

In-Service Year:	2027
Project Name:	**GOSHEN - KRAFT 115KV LINE REBUILD**
Description:	Rebuild a portion of Goshen - Kraft 115kV line.
Supporting Statement:	The Goshen - Kraft 115kV line overloads under contingency.

In-Service Year:	2027
Project Name:	**GOSHEN (SAV) - MCINTOSH 115KV REBUILD**
Description:	Rebuild approximately 6.7 miles of the Goshen (Sav) - McIntosh 115kV line.
Supporting Statement:	The Goshen (Sav) - McIntosh 115kV line overloads under contingency.

In-Service Year:	2027
Project Name:	**GRID - ARKWRIGHT - LLOYD SHOALS 115KV**
Description:	Rebuild the Arkwright - Lloyd Shoals line
Supporting Statement:	The Arkwright-Lloyd Shols 115kV line overloads under contingency

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In-Service Year:	2027
Project Name:	**GTC: ADAMSVILLE - BUZZARD ROOST 230KV REBUILD**
Description:	Rebuild about 5 miles of the Adamsville - Buzzard Roost 230kV line with higher capability conductors.
Supporting Statement:	The Adamsville - Buzzard Roost 230kV line overloads under a contingency.

In-Service Year:	2027
Project Name:	**GTC: DOUGLASVILLE - VILLA RICA 230KV REBUILD (CC NETWORK IMPROVEMENTS)**
Description:	Rebuild a 2.5 mile section of the Villa Rica - Douglasville 230kV line with higher capability conductors.
Supporting Statement:	The Villa Rica - Douglasville 230kV line overloads under a contingency.

In-Service Year:	2027
Project Name:	**GTC: DOYLE - WINDER PRIMARY 230KV LINE JUMPER REPLACEMENT**
Description:	Upgrade limiting equipment on the Doyle - Winder Primary 230kV line.
Supporting Statement:	The Doyle - Winder Primary 230kV line overloads under contingency.

In-Service Year:	2027
Project Name:	**GTC: EAST MOULTRIE - HIGHWAY 112 230 KV LINE**
Description:	Build approximately 27 miles of new 230kV line between HWY 112 and East Moultrie substations.
Supporting Statement:	This project addresses thermal overloads on the Daisy - West Valdosta 230kV line and Mitchell - Raccoon Creek 230kV line under contingency.

In-Service Year:	2027
Project Name:	**GTC: EAST WALTON 500/230KV PROJECT**
Description:	GTC: - Construct the East Walton 500/230kV substation - Construct the Bostwick 230kV switching station - Construct the East Walton - Rockville 500kV line - Construct the Bethabara - East Walton 230kV line - Construct the Bostwick - East Walton 230kV line - Construct the East Walton - Jack's Creek 230kV line - At Bethabara, terminate the East Walton 230kV line - Loop the East Social Circle - East Watkinsville 230kV line into Bostwick - Replace line trap at East Watkinsville on the Bostwick 230kV line GPC: - Construct the Rockville 500kV switching station - Loop the Scherer - Warthen 500kV line into Rockville - Loop the Doyle - LG&E Monroe 230kV line into Jack's Creek. MEAG: - Construct the Jack's Creek 230kV switching station
Supporting Statement:	Contingencies of several 230kV transmission lines in the central Georgia area causes multiple 230kV transmission lines to overload.

In-Service Year:	2027
Project Name:	**GTC: EATONTON PRIMARY (035591) - LICK CREEK 115KV LINE REBUILD**
Description:	Rebuild approximately 7.5 miles of the Eatonton Primary - Lick Creek 115 kV line section.
Supporting Statement:	The Eatonton Primary - Lick Creek 115kV line conductor and structures are at the end of life and had recent maintenance issues.

In-Service Year:	2027
Project Name:	**GTC: GARRETT ROAD - VILLA RICA 230KV LINE REBUILD/RECONDUCTOR (CC NETWORK IMPROVEMENTS)**
Description:	Reconductor and Rebuild approximately 14 miles of the Garrett Road - Villa Rica 230kV line.
Supporting Statement:	The Garrett Road - Villa Rica 230kV line overloads under contingency.

In-Service Year:	2027
Project Name:	**GTC: HICKORY LEVEL - VILLA RICA 230KV LINE RECONDUCTOR**
Description:	Reconductor to higher capability conductors on 8.6 miles of 230kV line.
Supporting Statement:	The Hickory Level – Villa Rica 230kV line overloads under contingency.

In-Service Year:	2027
Project Name:	**GTC: RIDDLEVILLE BUS REPLACEMENT**
Description:	Replace the main 115kV bus at Riddleville substation with higher rating.
Supporting Statement:	The Riddleville-North Louisville J 115kV line section overloads under contingency

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In-Service Year:	2027
Project Name:	**GTC: SKC 115KV BUS AND JUMPER REPLACEMENT**
Description:	EDITED Upgrade limiting elements at the SKC substation.
Supporting Statement:	The Covington #2 - SKC 115kV line overloads under contingency.

In-Service Year:	2027
Project Name:	**GTC: SOUTH HAZLEHURST - NEW LACY 230KV LINE**
Description:	Build a new 230kV transmission line (approximately 25 miles) between South Hazlehurst and New Lacy.
Supporting Statement:	The project will address multiple thermal overloads that occur under contingency.

In-Service Year:	2027
Project Name:	**GTC: SWITCH WAY - THORNTON ROAD 230KV LINE REBUILD**
Description:	Rebuild to higher capability conductors on a 1 mile portion of the Switchway - Thornton Road 230kV line.
Supporting Statement:	The Switch Way - Thornton Road 230kV line overloads under contingency.

In-Service Year:	2027
Project Name:	**GULLATT ROAD UPSTREAM TRANSMISSION IMPROVEMENTS**
Description:	Upstream transmission improvements to serve increasing load along existing transmission lines.
Supporting Statement:	Addition of new customer in the Fulton County area overloads existing transmission lines.

In-Service Year:	2027
Project Name:	**HILL VIEW AND GRASSY HOLLOW SWITCHING STATIONS (CC NETWORK IMPROVEMENTS)**
Description:	Build two 230kV switching stations (Hill View and Grassy Hollow) looping into the Cartersville - McGrau Ford 230kV line (8.5 miles apart). Build three new 230kV lines: Hill View - Cass Pine, Cass Pine - Great Valley and Great Valley - Grassy Hollow (total 18.9 miles)
Supporting Statement:	The transmission network improvements are required to serve load growth in Cartersville area.

In-Service Year:	2027
Project Name:	**JESUP - OFFERMAN 115KV REBUILD**
Description:	Rebuild approximately 20 miles of the Jesup - Offerman 115kV line.
Supporting Statement:	The Jesup - Offerman 115kV transmission line overloads under contingency.

In-Service Year:	2027
Project Name:	**LAWRENCEVILLE - WINDER 115KV LINE REBUILD**
Description:	Rebuild approximately 1.2 miles of the Lawrenceville - Winder 115kV line.
Supporting Statement:	The Lawrenceville - Winder 115kV transmission line overloads under contingency.

In-Service Year:	2027
Project Name:	**LAWRENCEVILLE - WINDER PRIMARY 230KV LINE REBUILD**
Description:	Rebuild the entire Lawrenceville - Winder Primary 230kV line.
Supporting Statement:	The Lawrenceville - Winder 230kV transmission line overloads under contingency.

In-Service Year:	2027
Project Name:	**MEAG: FORTSON SUBSTATION MODERNIZATION**
Description:	Complete modernization and replacement of obsolete equipment and relays for the 500kV, 230kV, and 115kV yards. Add a redundant relay scheme at Fortson.
Supporting Statement:	Several 115kV lines overloads under contingency. Substation modernization needed due to obsolete equipment and relays.

In-Service Year:	2027
Project Name:	**MEAG: RAY PLACE RD - WARRENTON PRIMARY REBUILD**
Description:	Rebuild approximately 10 miles of the Ray Place - Warrenton Primary 115kV line. Upgrade limiting element at substation along the line.
Supporting Statement:	The Ray Place Rd - Warrenton 115kV line exceeds its thermal rating for various contingencies.

In-Service Year:	2027
Project Name:	**MICROSOFT - SHUGART**
Description:	Rebuild the Line Creek 230kV as breaker and a half configuration. Connect existing 230kV lines into the new breaker and a half layout at Line Creek. Build two short lines from Line Creek to customer station (0.3 miles each).
Supporting Statement:	The transmission network improvements are required to serve load growth in Palmetto area.

In-Service Year:	2027
Project Name:	**MORROW - YATES COMMON 115KV LINE REBUILD**
Description:	Rebuild a section of the Morrow - Yates Common 115kV line.
Supporting Statement:	Line sections on the Morrow - Yates 115kV line overload under contingency.

In-Service Year:	2027
Project Name:	**POSSUM BRANCH - YATES COMMON 115KV REBUILD (YATES TO CLEM)**
Description:	Rebuild an approximate 11 mile section of the Possum Branch - Yates 115kV line and replace limiting elements along the line.
Supporting Statement:	The Possum Branch – Yates 115kV line overloads under contingency.

In-Service Year:	2027
Project Name:	**SANDERSVILLE #1 - WADLEY PRI 115KV REBUILD**
Description:	Rebuild approximately 24.3 miles of the Sandersville #1 - Wadley Primary 115kV line. Replace limiting elements in substations along the line.
Supporting Statement:	The Sandersville # 1 - Wadley Primary 115kV line overloads under contingency.

In-Service Year:	2027
Project Name:	**SUMMER LAKE - VILLA RICA 230KV REBUILD (CC NETWORK IMPROVEMENTS)**
Description:	Rebuild a 2.5 mile portion of the Summer Lake - Villa Rica 230kV line with higher capability conductors.
Supporting Statement:	The Summer Lake - Villa Rica 230kV line overloads under a contingency.

In-Service Year:	2027
Project Name:	**TOMOCHICHI 500/230KV SOLUTION(CC NETWORK IMPROVEMENTS)**
Description:	Build the new Tomochichi 500/230kV switching station along with two new 230kV lines.
Supporting Statement:	The transmission network upgrades under this project are required to reliably serve load growth in Butts County

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In-Service Year:	2028
Project Name:	**ACIPCO TS - BOYLES 230 KV TRANSMISSION LINE**
Description:	Construct approximately 6 miles of 1351 54/19 ACSR at 100°C from ACIPCO TS to Boyles TS.
Supporting Statement:	The Boyles - Miller 230 kV transmission line overloads under contingency. Also provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2028
Project Name:	**AULTMAN ROAD-PERRY 115KV LINE REBUILD**
Description:	Rebuild the PPG J2 - Langston Rd line section of the Aultman Road - Perry 115kV line.
Supporting Statement:	The Aultman Road - Perry 115kV line overloads under contingency.

In-Service Year:	2028
Project Name:	**BARRY - ELLICOTT 230 KV SERIES REACTOR**
Description:	New 0.5% Series Reactor on the Barry - Ellicott 230 kV TL
Supporting Statement:	The project addresses short circuit constraints.

In-Service Year:	2028
Project Name:	**BREMEN - CROOKED CREEK 115 KV TRANSMISSION LINE**
Description:	APC: Reconductor approximately 29.5 miles of 397 30/7 ACSR 100°C to 795 ACSS 200°C from Crooked Creek TS to Indian Creek Metering Station.
Supporting Statement:	The Bremen - Crooked Creek 115 kV transmission line overloads under contingency.

In-Service Year:	2028
Project Name:	**COLEMAN - DEAN FOREST 115KV LINE REBUILD**
Description:	Rebuild 6.67 miles of the Coleman - Dean Forest 115kV line.
Supporting Statement:	The Coleman - Dean Forest 115kV line overloads under contingency.

In-Service Year:	2028
Project Name:	**EAST VILLA RICA AREA SWITCHING STATION**
Description:	Build a new switching station East of Villa Rica.
Supporting Statement:	The project is required to serve load growth and customers in Douglas County.

In-Service Year:	2028
Project Name:	**EAST VILLA RICA POWER FLOW CONTROLLERS INSTALLATION**
Description:	Installation of power flow controllers at the new East Villa Rica Switching Station on the Douglasville - Villa Rica 230kV and Summer Lake - Villa Rica 230kV lines.
Supporting Statement:	The project addresses multiple thermal overloads that occur under contingency.

In-Service Year:	2028
Project Name:	**ELLICOTT SUBSTATION EXPANSION PROJECT**
Description:	Add 6 new 230kV terminals at Ellicott SS. Ellicott SS to become Ellicott TS. Add new 115kV station with breaker and a half configuration to support (13) - 115kV line terminations, to include a new 230/115kV autobank. Barry SP - Reconfigure substation and replace structures.
Supporting Statement:	Upgrade existing and construct new transmission facilities to provide additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2028
Project Name:	**FIRST AVENUE - NORTH COLUMBUS 115KV LINE REBUILD**
Description:	Rebuild the North Columbus - First Avenue 115kV line.
Supporting Statement:	The North Columbus - First Avenue 115kV line overloads under contingency.

In-Service Year:	2028
Project Name:	**FITZGERALD - PITTS 115 KV LINE REBUILD**
Description:	Rebuild Fitzgerald - Pitts 115kV line
Supporting Statement:	The Fitzgerald - Pitts 115kV line overloads under contingency

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In-Service Year:	2028
Project Name:	**GTC: BARNESVILLE - SOUTH GRIFFIN 230KV PROJECT**
Description:	Construct a new 230kV line from South Griffin substation - Barnesville Primary substation
Supporting Statement:	The Barnesville - South Griffin 115kV line overloads under contingency.

In-Service Year:	2028
Project Name:	**GTC: BARNEYVILLE - EAST MOULTRIE 115KV NEW LINE**
Description:	Build approximately 20 miles of a new 115kV line from Barneyville to East Moultrie.
Supporting Statement:	The Barneyville - Pine Grove Primary 115kV line and Barneyville - Douglas 115kV line overload under contingency.

In-Service Year:	2028
Project Name:	**GTC: BONAIRE PRIMARY 500/230KV XFMR REPLACEMENT & RELAY MOD**
Description:	Replace 500/230 kV, auto transformer with a new transformer. Replace obsolete relay panels
Supporting Statement:	Replacement of obsolete relays and major equipment at Bonaire Primary needed due to ongoing maintenance issues

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In-Service Year:	2028
Project Name:	**GTC: BOSTWICK - EAST SOCIAL CIRCLE 230KV TRANSMISSION LINE RECONDUCTOR**
Description:	Reconductor approximately 10.8 miles of the East Social Circle - East Watkinsville 230kV line.
Supporting Statement:	The Bostwick - East Social Circle 230kV line overloads under contingency.

In-Service Year:	2028
Project Name:	**GTC: NORTH DUBLIN 230/115KV TRANSFORMERS AND BUS-TIE BREAKER**
Description:	Replace North Dublin 230/115 kV Banks A & B with (2) new 230/115 kV auto transformers. Replace North Dublin 230 kV bus tie breaker with a new breaker. Replace North Dublin 115 kV bus tie breaker with a new breaker.
Supporting Statement:	Replacement of major equipment at North Dublin needed due to ongoing maintenance issues.

In-Service Year:	2028
Project Name:	**JACK MCDONOUGH - NORTHWEST (BLACK) 230KV REBUILD**
Description:	Rebuild the Jack McDonough - Northwest (Black) 230kV line (4.59 miles).
Supporting Statement:	The Northwest – Jack McDonough 230kV line exceeds its thermal rating under contingency.

In-Service Year:	2028
Project Name:	**LEEDS TS – MOODY SS 115 KV TRANSMISSION LINE RECONDUCTOR**
Description:	Reconductor approximately 5.0 miles of 795 ACSR at 100°C with 1033.5 ACSS at 200°C.
Supporting Statement:	The Leeds to Moody 115 kV transmission line overloads under contingency.

In-Service Year:	2028
Project Name:	**MAGNOLIA - TRUMAN PARKWAY 115KV REBUILD**
Description:	Rebuild approximately 3 miles of the Magnolia - Truman Parkway 115kV line. Upgrade limiting elements in substations along the line.
Supporting Statement:	The Magnolia - Truman Parkway 115kV line overloads under contingency.

In-Service Year:	2028
Project Name:	**MEAG: BRUMBLEY CREEK - SOUTH BAINBRIDGE 115KV REBUILD**
Description:	Rebuild approximately 2.1 miles of the South Bainbridge - Thomasville 115kV line.
Supporting Statement:	The South Bainbridge - Thomasville 115kV line overloads under contingency.

In-Service Year:	2028
Project Name:	**MEAG: THOMASVILLE 230/115KV AUTOBANK REPLACEMENT**
Description:	Replace the 230/115kV autotransformer #4 at Thomasville substation.
Supporting Statement:	The 230/115kV auto transformer #4 at Thomasville substation overloads under contingency.

In-Service Year:	2028
Project Name:	**MILLER SP 500 KV SERIES BREAKER**
Description:	Install a 500 kV series breaker at Miller SP
Supporting Statement:	The Boyles - Miller 230 kV transmission line and many other transmission lines overload under contingency.

In-Service Year:	2028
Project Name:	**PITTMAN ROAD - WEST POINT DAM 115KV REBUILD**
Description:	Rebuild the entire Pittman Road - West Point Dam 115kV line. Upgrade limiting element at substation along the line.
Supporting Statement:	The Pittman Road - West Point Dam 115kV line overloads under contingency.

In-Service Year:	2028
Project Name:	**PLANT YATES BREAKER AND HALF STATION**
Description:	Rebuild the Yates 6 & 7 substation.
Supporting Statement:	Yates 6 & 7 needs to be rebuilt to facilitate new generation.

In-Service Year:	2028
Project Name:	**PS: GASKIN – SOUTHPORT 115 KV TRANSMISSION LINE**
Description:	Construct approximately 9.0 miles of new 115 kV transmission line from Gaskin Switching Station to Southport substation with 795 ACSR at 100°C.
Supporting Statement:	Improve the reliability of Gulf Coast Electric's substations by providing a looped service feed.

In-Service Year:	2028
Project Name:	**SOUTH MACON 115KV BUSES 1 & 2 REPLACEMENT**
Description:	Replace the 115kV buses 1 and 2 at South Macon.
Supporting Statement:	The 230/115kV auto transformers at South Macon overload under contingency .

In-Service Year:	2028
Project Name:	**SOUTH TUSCALOOSA - 31ST AVENUE 115 KV TL UPGRADE**
Description:	Upgrade ~5 miles of various 795 ACSR conductor at 100°C to 125°C
Supporting Statement:	The South Tuscaloosa - 31st Avenue 115 kV transmission line overloads under contingency.

In-Service Year:	2028
Project Name:	**THURLOW DAM - PIN OAKS 115 KV TL**
Description:	Reconductor approximately 21 miles of 397 ACSR at 100 °C from Thurlow Dam to Pin Oaks to 795 ACSS at 200°C.
Supporting Statement:	The Thurlow Dam - Notasulga 115 kV transmission line overloads under contingency.

In-Service Year:	2028
Project Name:	**THURLOW DAM – UNION SPRINGS 115 KV TL**
Description:	Rebuild approximately 31.5 miles of 397 ACSR at 75°C from Thurlow Dam to Union Springs to 795 ACSS @ 200 deg C
Supporting Statement:	The Thurlow Dam - Union Springs 115 kV transmission line overloads under contingency.

In-Service Year:	2028
Project Name:	**UNION CITY - YATES 230KV BLACK LINE REBUILD**
Description:	Rebuild the entire Union City - Yates 230kV Black line (approximately 23.4 miles). Replace limiting elements at substations along the line.
Supporting Statement:	The Union City - Yates 230kV Black line overloads under contingency.

In-Service Year:	2028
Project Name:	**VILLA RICA UPGRADES (CC NETWORK IMPROVEMENTS)**
Description:	Add a new 500/230kV auto transformer at Villa Rica, and loop in and out the Bowen - Union City 500kV line into Villa Rica. Convert the 230kV side to a breaker and a half scheme.
Supporting Statement:	The transmission network upgrades under this project are required to reliably serve load growth in Villa Rica area.

In-Service Year:	2029
Project Name:	**ALICEVILLE - STANSEL 115 KV TRANSMISSION LINE**
Description:	Construct a new approximately 17-mile 115 kV TL from Aliceville TS to Stansel TS with 795 ACSR 26/7 ACSR at 100°C.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2029
Project Name:	**ASHLEY PARK-WANSLEY 500KV**
Description:	Construct a 500kV line from Ashley Park to Wansley, approximately 35 miles long.
Supporting Statement:	The Villa Rica-Wansley 500kV line overloads under contingency. Reduces multiple 500 kV and 230kV line loadings and provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2029
Project Name:	**BASSETT CREEK - CALVERT - WEST MCINTOSH 230 KV LOOP-IN**
Description:	Loop the existing Bassett Creek - Tensaw 230kV TL into the West McIntosh substation and upgrade three 115 kV 2000A switches to 3000A.
Supporting Statement:	The Barry - CAES 115 kV transmission line and the Bucks - Ellicott 230 kV transmission line overload under contingency. This loop-in alleviates those overloads.

In-Service Year:	2029
Project Name:	**BAY CREEK - CONYERS 230KV REBUILD**
Description:	Rebuild the Rockdale to Bay Creek segment of the Bay Creek - Conyers 230kV line.
Supporting Statement:	The Bay Creek - Conyers 230kV line will overload under certain contingencies.

In-Service Year:	2029
Project Name:	**BLAKELY PRIMARY - HUCKLEBERRY 115KV REBUILD**
Description:	Rebuild the Blakley Primary - Huckleberry 115kV line. GPC: Replace jumpers at Blakely Primary GTC: Replace jumpers at Blakely and Huckleberry
Supporting Statement:	Blakley Primary - Huckleberry 115kV line overloads under contingency.

In-Service Year:	2029
Project Name:	**BUTLER - THOMASTON 230KV LINE**
Description:	Rebuild the radial Thomaston - Butler 115kV line to 230kV network operation. Make all necessary upgrades and accommodations at the substation along the line.
Supporting Statement:	Line conversion educes multiple 230 kV line loadings and provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2029
Project Name:	**ELLICOTT-NORTH MOBILE #2 115 KV UPGRADE**
Description:	Upgrade 8.43 miles of the Ellicott - North Mobile 115 kV TL, between North Mobile and Radcliffe DS, from 397 26/7 ACSR at 75C to 125C
Supporting Statement:	The Ellicott-North Mobile #2 115 kV transmission line overloads under contingency.

In-Service Year:	2029
Project Name:	**EUTAW – GREENE COUNTY 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 23 miles of 115 kV TL from Eutaw TS to Greene County SP from 397 ACSR 26/7 at 100°C to 795 ACSR 26/7 at 100°C.
Supporting Statement:	The Eutaw - Greene County 115 kV transmission line overloads under contingency.

In-Service Year:	2029
Project Name:	**FLOMATON 230/115 KV SUBSTATION**
Description:	Install a new 230/115 kV, 480 MVA transformer at Flomaton TS.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2029
Project Name:	**GADSDEN – GULF STATES STEEL 115 KV TRANSMISSION LINE**
Description:	(1.) Reconductor approximately 2.5 miles 397 26/7 ACSR to 795 ACSR 26/7 from Gulf States Steel to Morgan's Crossroads. (2.) Replace Gulf States Steel DS with a new 5-terminal, 4-breaker 115 kV ring bus SS across the street from the existing substation. (3.) Move the Linde Inc (Gadsden) 115 kV tap from Gulf States Steel DS to the new West Gadsden SS.
Supporting Statement:	Provides additional operational and maintenance flexibility which then increases reliability. In addition, associated with replacing aging equipment at Gulf States Steel DS.

In-Service Year:	2029
Project Name:	**GTC: BARNESVILLE PRIMARY - THOMASTON 230KV**
Description:	Rebuild Barnesville Primary - Thomaston 230kV line. Replace line switches and jumpers.
Supporting Statement:	Barnesville Primary - Thomaston 230kV line overloads under contingency.

In-Service Year:	2029
Project Name:	**GTC: BAY CREEK 230/115KV SECOND AUTO TRANSFORMER**
Description:	Install a second auto transformer at the Bay Creek substation.
Supporting Statement:	The Bay Creek - Monroe 115kV line overloads under contingency.

In-Service Year:	2029
Project Name:	**GTC: CAVENDER DRIVE 500/230KV AUTOBANK**
Description:	GTC will turn Cavender Drive into a 500/230kV station looping in the Villa Rica - Union City 500kV line.
Supporting Statement:	The project solves multiple thermal overloads in Metro South and Metro West Atlanta.

In-Service Year:	2029
Project Name:	**GTC: CLIFTONDALE - LINE CREEK 230KV LINE**
Description:	A new 11.6 mile 230kV line is being built from Cliftondale to Line Creek.
Supporting Statement:	The line is being built to network the area and remove thermal overloads.

In-Service Year:	2029
Project Name:	**GTC: DRESDEN – TALBOT 500KV LINE**
Description:	Build a new 500kV line from new Talbot substation to Dresden.
Supporting Statement:	This strategic project will address multiple thermal overloads that occur under contingency.

In-Service Year:	2029
Project Name:	**GTC: HOPEWELL 230/115 KV BANK A**
Description:	Replace the Hopewell auto transformer.
Supporting Statement:	The Hopewell 230/115kV auto transformer surpasses its rating under contingency.

In-Service Year:	2029
Project Name:	**GTC: NEW 230KV LINE FROM BUZZARD ROOST - CAVENDER DRIVE**
Description:	Build a new 7 mile 230kV line from Cavender Drive to Buzzard Roost.
Supporting Statement:	New 230kV line mitigates multiple thermal overloads due to contingencies in the area.

In-Service Year:	2029
Project Name:	**GTC: TENASKA - WANSLEY 500KV LINE**
Description:	Construct a 5 miles long 500kV line between Tenaska and Wansley. Make all necessary accommodations at the substations for the line termination.
Supporting Statement:	This project reduces multiple 500 kV line loadings, and provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2029
Project Name:	**HOLT STREET - CARTER HILL ROAD 115 KV TL**
Description:	Reconductor 1.81 miles of 397 ACSR 18/1 at 100^{o}C to 795 ACSR 45/7 ACSR at 100^{o}C from Holt Street - Carter Hill Rd.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2029
Project Name:	**LOWER RIVER - WEBB (APC) 115KV RECONDUCTOR**
Description:	Reconductor approximately 0.97 miles of the Lower River - Webb 115kV line.
Supporting Statement:	Lower River - Webb (APC) 115kV line overloads under contingency.

In-Service Year:	2029
Project Name:	**MCEVER ROAD - SHOAL CREEK 115KV TRANSMISSION LINE REBUILD**
Description:	Rebuild approximately 3.05 miles of the McEver Road - Shoal Creek 115kV line.
Supporting Statement:	The McEver Road - Shoal Creek 115kV transmission line overloads under contingency

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In-Service Year:	2029
Project Name:	**MCMANUS - WEST BRUNSWICK 115KV REBUILD**
Description:	Rebuild approximately 5.7 miles of the McManus - West Brunswick 115kV line.
Supporting Statement:	The McManus - West Brunswick 115kV line overloads under contingency.

In-Service Year:	2029
Project Name:	**MEAG: SLAPPEY DRIVE - WESTOVER 115KV LINE REBUILD**
Description:	Rebuild approximately 2.92 miles of Slappy Drive - Westover 115kV line.
Supporting Statement:	Slappey Drive - Westover 115kV line overloads under contingency.

In-Service Year:	2029
Project Name:	**MILLER - GORGAS 230 KV TL UPGRADE**
Description:	Upgrade approximately 16 miles of 1351 54/19 ACSR at 100° to 125°C on the Miller - Gorgas 230 kV transmission line.
Supporting Statement:	The Miller - Gorgas 230 kV transmission line overloads under contingency.

In-Service Year:	2029
Project Name:	**MOBILE AREA NETWORKING – 3RD PATH**
Description:	Construct new Dawes SS at Dawes Tap on the Big Creek – N. Theodore 115kV TL.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2029
Project Name:	**MOUNDVILLE SOLUTION**
Description:	Construct a new 6-mile, 115kV TL, 795, 26/7 ACSS @ 200°C from Moundville TS to a new 3-way switch near structure 7 between Colonial Pipe (Moundville) and Westervelt Co, new terminal at Moundville TS, Install 1-way switch near Structure 41.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2029
Project Name:	**NORTH THEODORE AREA PROJECT**
Description:	• Reconductor ~0.9 miles of the Hollinger's Island – Holcim 115kV TL to 795 ACSR at 100°C. • Construct New SS near Tronox LLC and Switch 19985. • Construct ~5.3 miles of 795 ACSR at 100°C 115kV TL from N. Theodore – Praxair Tap. • Install new 115kV terminal at N. Theodore TS
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2029
Project Name:	**RICE HOPE NEW AUTO TRANSFORMER**
Description:	Install a new 230/115kV 400MVA auto transformer at Rice Hope and loop in the Crossgate - McIntosh 230kV line.
Supporting Statement:	The McIntosh and Kraft B & C auto banks overload under various contingencies.

In-Service Year:	2029
Project Name:	**ROCKY RIDGE RADIAL 115 KV TRANSMISSION LINE**
Description:	Reconductor approximately 0.5 miles of 115 kV TL from Rocky Ridge Tap to Rocky Ridge DS from 4/0 ACSR at 50C to 795 ACSR 26/7 at 100C
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2029
Project Name:	**SOUTH BAINBRIDGE - SINAI (FPL) 115KV LINE RECONDUCTOR**
Description:	Rebuild the Four Mile tap - Recovery - Sinai (FPL) segment of the Sinai (FPL) - South Bainbridge 115kV line. Replace limiting elements at substations along the line.
Supporting Statement:	Sinai (FPL) - South Bainbridge 115kV line overloads under contingency.

In-Service Year:	2030
Project Name:	**ANNISTON - HAMMOND 230KV LINE REBUILD**
Description:	Rebuild the 28.12 miles section between Hammond and the Goshen tap with 200C 1351 ACSS Martin conductor.
Supporting Statement:	The Anniston - Hammond 230kV line overloads under contingency.

In-Service Year:	2030
Project Name:	**ATKINSON - NORTHSIDE DRIVE 115KV REBUILD**
Description:	Rebuild a 3.2 mile portion of the Atkinson - Northside Drive 115kV line with higher capability conductors.
Supporting Statement:	The Atkinson - Northside Drive 115kV line overloads under a contingency.

In-Service Year:	2030
Project Name:	**ATKINSON - NORTHWEST 115KV REBUILD**
Description:	Rebuild a 1.2 mile portion of the Atkinson - Northwest 115kV line with higher capability conductors.
Supporting Statement:	The Atkinson - Northwest 115kV line overloads under a contingency.

In-Service Year:	2030
Project Name:	**BAINBRIDGE TRANSMISSION: EAST RIVER ROAD AND EAST BAINBRIDGE**
Description:	This project will construct a new 115kV breaker and a half substation.
Supporting Statement:	This project is part of an overall reconfiguration of the Bainbridge area to improve the distribution reliability, transmission security and operational flexibility.

In-Service Year:	2030
Project Name:	**DEMOPOLIS TS – CEMEX 115 KV TRANSMISSION LINE**
Description:	Construct approximately 1.0 mile of 795 ACSR 115 kV transmission line at 100°C from Demopolis TS to Cemex Tap.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2030
Project Name:	**DU: DAWSON CROSSING - NELSON (WHITE) 115 KV REBUILD**
Description:	Rebuild approximately 15.7 miles of the Dawson Crossing - Nelson (White) 115kV line.
Supporting Statement:	The Dawson Crossing - Nelson (White) 115kV line overloads under contingency.

In-Service Year:	2030
Project Name:	**EAST POINT - TRIBUTARY 230KV REBUILD**
Description:	Rebuild a 3 mile section of the East Point - Tributary 230kV line with higher capability conductors.
Supporting Statement:	The line overloads under a contingency.

In-Service Year:	2030
Project Name:	**EAST POINT - UNION CITY 230KV BLACK LINE RECONDUCTOR**
Description:	Reconductor part of the East Point - Union City 230kV Black line with higher rated conductor. Replace limiting elements along the line.
Supporting Statement:	The East Point - Union City 230kV Black line overloads under contingency.

In-Service Year:	2030
Project Name:	**ECHECONNEE-WELLSTON 115KV LINE REBUILD**
Description:	Rebuild approximately 11.8 miles of the Echeconnee - Wellston 115kV line and the limiting elements along the line. Replace the bus at North Warner Robins.
Supporting Statement:	The Echeconnee - Wellston 115kV line overloads under contingency

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In-Service Year:	2030
Project Name:	**FARLEY-TAZEWELL 500KV**
Description:	Construct a new 500kV line from Farley to Tazewell substation. Construct a 5 breaker 500kV ring bus to loop in the Blacksmith - Talbot 500kV line, terminate the new Farley - Tazewell 500kV and Talbot #2 - Tazewell 500kV lines. Install a 500/230kV auto transformer to connect to the existing 230kV switchyard.
Supporting Statement:	This project addresses multiple thermal overloads that occur under contingency.

In-Service Year:	2030
Project Name:	**GAINESVILLE #2 - MCEVER ROAD 115 KV REBUILD**
Description:	Rebuild approximately 5.3 miles of the Gainesville #2 - McEver Rd 115 kV line.
Supporting Statement:	The Gainesville #2 - McEver Rd 115 kV line overloads under contingency.

In-Service Year:	2030
Project Name:	**GLENWOOD SPRINGS - LAKE OCONEE 115KV LINE REBUILD**
Description:	Rebuild the North Eatonton Junction - Putnam Sawmill Junction line
Supporting Statement:	The Glenwood Springs - Lake Oconee 115kV line overloads under base case conditions.

In-Service Year:	2030
Project Name:	**GLENWOOD SPRINGS 115KV CAP BANK**
Description:	Install a 115kV capacitor bank at Glenwood Springs substation
Supporting Statement:	Low bus voltage issues were identified on the 115kV buses due to a contingency

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In-Service Year:	2030
Project Name:	**GOAT ROCK SERIES REACTORS INSTALLATION**
Description:	Install 1% series reactors on the Fortson - Goat Rock (Black) 230kV and Fortson - Goat Rock (White) 230kV.
Supporting Statement:	The Fortson - Goat Rock (Black & White) 230kV lines overload under contingency.

In-Service Year:	2030
Project Name:	**GOLDENS CREEK - WARRENTON PRIMARY 230KV REBUILD**
Description:	Rebuild approximately 0.34 miles of the Goldens Creek - Warrenton Primary 230kV line.
Supporting Statement:	The Goldens Creek - Warrenton Primary 230kV transmission line overloads under contingency.

In-Service Year:	2030
Project Name:	**GOSHEN AREA SOLUTION**
Description:	Construct a 230kV switching station on the Waynesboro - Wilson 230kV line and a new 230kV line between the switching station and Goshen, approximately 12 miles.
Supporting Statement:	The Augusta Corporate Park - Vogtle 230kV line overloads under contingency.

In-Service Year:	2030
Project Name:	**GTC: BIG SMARR - TOMOCHICHI 500KV**
Description:	Construct a 500kV line from Big Smarr to Tomochichi, approximately 36 miles long. Make the necessary modifications at Big Smarr and Tomochichi to add breakers and terminate the line.
Supporting Statement:	This project addresses multiple thermal overloads that occur under contingency.

In-Service Year:	2030
Project Name:	**GTC: EAST WATKINSVILLE 230 KV STATION MODIFICATION**
Description:	Replace reactor at East Watkinsville on the Russell Dam 230kV line.
Supporting Statement:	Equipment on the East Watkinsville - Russell Dam 230kV line overloads under contingency.

In-Service Year:	2030
Project Name:	**GTC: GORDON-SANDERSVILLE #1 115KV LINE REBUILD (DEEPSTEP-SAND #6)**
Description:	Rebuild 10.49 miles of the Deepstep-Robins Spring Robins Spring - Kaolin J, and Kaolin J - Sandersville #6 line sections of the Gordon - Sandersville #1 115kV line.
Supporting Statement:	The Gordon - Sandersville #1 115kV line overloads under contingency

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In-Service Year:	2030
Project Name:	**GTC: HARTWELL DAM - HARTWELL ENERGY 230KV SERIES REACTORS**
Description:	Replace the series reactors on the Hartwell Dam - Hartwell Energy 230kV line with larger size.
Supporting Statement:	The reactors on the Hartwell Dam - Hartwell Energy 230kV line overload under contingency.

In-Service Year:	2030
Project Name:	**GTC: HARTWELL ENERGY - MIDDLE FORK 230KV LINE**
Description:	Construct a new 230kV line, approx. 35 miles, from Hartwell Energy to Middle Fork. GTC: Expand Hartwell Energy 230kV and Middle Fork 230kV substations for the new line termination.
Supporting Statement:	This new line will address overloads under contingency and supports transfer capability.

In-Service Year:	2030
Project Name:	**GTC: POND FORK - MIDWAY 115KV LINE**
Description:	Construct approximately 6 miles of 115kV line utilizing the existing GTC owned portion of the North Jackson - Lawrence Smith 46kV ROW. Add a second 230/115kV auto transformer at Pond Fork substation.
Supporting Statement:	The future Banks Crossing - Pond Fork 115kV line overloads under contingency.

In-Service Year:	2030
Project Name:	**GTC: ROCKVILLE - TIGER CREEK -WARTHEN 500KV LINES**
Description:	Build the new 500kV line from Rockville to Tiger Creek and Tiger Creek to Warthen, approximately 20 miles and 9 miles long respectively. Build a 500kV yard at Tiger Creek and install a 500/230kV auto transformer. Make all necessary accommodations at Warthen and Rockville for the new 500kV breakers.
Supporting Statement:	This project addresses several thermal constraints that occur under contingency and provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2030
Project Name:	**GTC: TALLBOT #2 - TAZEWELL 500KV LINE**
Description:	Build a new 500kV line from Tazewell to Talbot #2, approximately 20 miles. Make all necessary accommodations at Tazewell and Tallbot #2 for the new 500kV breakers and line termination.
Supporting Statement:	This project addresses multiple thermal overloads that occur under contingency.

In-Service Year:	2030
Project Name:	**GTC: TIGER CREEK-ROCKVILLE-NORTH SPA 230KV PROJECT**
Description:	Build a new 4 - breaker 230kV ring bus at Rockville substation (no auto transformer to be added at this time). Loop in the Eatonton Primary #2 - Wallace Dam 230kV line. Build a new 230kV line to Tiger Creek. Build a new 230kV line to North Spa.
Supporting Statement:	This projects addresses thermal constraints in the 230kV system of the area and provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2030
Project Name:	**JEFFERSON ROAD - WINDER PRIMARY 115KV REBUILD**
Description:	Rebuild approximately 11 miles of the Jefferson Road - Winder Primary 115kV line.
Supporting Statement:	The Jefferson Road - Winder Primary 115kV line overloads under contingency.

In-Service Year:	2030
Project Name:	**KETTLE CREEK PRIMARY - PINE GROVE PRIMARY 115KV REBUILD**
Description:	Rebuild approximately 38.04 miles of the Kettle Creek - Pine Grove Primary 115kV line.
Supporting Statement:	Kettle Creek - Pine Grove 115kV line overloads under contingency.

In-Service Year:	2030
Project Name:	**MEAG: ATHENA - WARRENTON 230KV CONVERSION**
Description:	Convert the 115kV lines from Athena - Union Point - Ray Place Road - Warrenton Primary to 230kV operation. Replace limiting equipment along the lines.
Supporting Statement:	Ray Place Road - Warrenton 115kV overloads under contingency.

In-Service Year:	2030
Project Name:	**NEW CAVENDER DRIVE - TRIBUTARY 230KV LINE**
Description:	Build a new 5 mile 230kV line from Cavender Drive to Tributary.
Supporting Statement:	The project will address multiple thermal overloads that occur under contingency.

In-Service Year:	2030
Project Name:	**NORTH GEORGIA DATA NETWORK UPGRADES (GPC)**
Description:	Construct approximately 7 miles of 115kV line on the North Jackson - Lawrence Smith 46kV ROW that is to be retired.
Supporting Statement:	The future Banks Crossing - Pond Fork 115kV line overloads under contingency.

In-Service Year:	2030
Project Name:	**NORTH SPA 230KV STRATEGIC PROJECT**
Description:	This project includes the following scope of work: Build a new 230kV switching station north of Oasis in a ring bus configuration with 4 - breakers. Loop in the East Social Circle - Oasis (White) 230kV line. Build a new 230kV line to Cornish Mountain from North Spa. New 230kV line from Rockville 230kV will terminate in this station.
Supporting Statement:	This projects addresses thermal constraints in the 230kV system of the area and provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2030
Project Name:	**TALLULAH LODGE - TOCCOA 115KV LINE REBUILD**
Description:	Rebuild the entire Tallulah Lodge - Toccoa 115kV line, approximately 10.3 miles. Replace limiting elements in substations along the line.
Supporting Statement:	The Tallulah Lodge - Toccoa 115kV line overloads under contingency.

In-Service Year:	2030
Project Name:	**THOMASTON 230KV NEW BUILD SUBSTATION**
Description:	Replace both Thomaston 230/115kV auto transformers C and D. Install new 230kV breakers for modern protection and reconfigure the station for better reliability.
Supporting Statement:	With certain contingencies, Thomaston 203/115kV auto transformers C and D will overload past their ratings. New station configuration is necessary to maintain reliability for system demands.

In-Service Year:	2030
Project Name:	**THOMSON PRIMARY 230/115KV SECOND TRANSFORMER**
Description:	Install a second 230/115kV auto transformer at Thomson Primary substation.
Supporting Statement:	This project addresses overloads under contingency on the Thomson Primary 230/115 kV auto transformer and the Evans Primary - Thomson Primary 115kV line.

In-Service Year:	2030
Project Name:	**TRIBUTARY - THORNTON RD 230KV REBUILD**
Description:	Rebuild the 2.8 mile Tributary - Thornton Road 230kV line with higher capability conductors
Supporting Statement:	The Tributary - Thornton Road line overloads under contingency.

In-Service Year:	2031
Project Name:	**ALBERTA CITY - HOLT 115 KV TL RECONDUCTOR**
Description:	Reconductor approximately 4 miles of 795 ACSR at 100°C on the Alberta City - Holt 115 kV transmission line to 795 ACSS at 200°C.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2031
Project Name:	**ALEX CITY AREA SOLUTION**
Description:	Construct new West Alex City SS. Construct new West Dadeville TS networking Alex City, Crooked Creek – Martin Dam No. 2, and Thweatt. Reconductor approximately 4.52 miles from new West Alex City SS to City of Alex City #3 with 795 45/7 ACSR at 100°C
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2031
Project Name:	**ANNISTON - CROOKED CREEK 115 KV TL**
Description:	Reconductor approximately 28 miles of 397 30/7 ACSR to 795 26/7 ACSR from Golden Springs DS to Crooked Creek TS 115 kV transmission line
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability. In addition, the line is being reconductored due to the age and condition of the structures and conductor.

In-Service Year:	2031
Project Name:	**AVERY - HOPEWELL 115KV RECONDUCTOR**
Description:	Reconductor approximately 3.3 miles of the Avery - Hopewell 115kV line. Replace substation equipment along the section of the line.
Supporting Statement:	The Avery - Hopewell 115kV line overloads under contingency.

In-Service Year:	2031
Project Name:	**BESSEMER - EAST PELHAM 230 KV TRANSMISSION LINE**
Description:	Upgrade approximately 14.9 miles of 1033 45/7 ACSR from 75°C to 100°C from Bessemer TS to East Pelham TS.
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2031
Project Name:	**BOWEN #10 500/230KV AUTOBANK REPLACEMENT**
Description:	Replace the existing Bowen #10 500/230kV auto transformer with a higher rated 500/230kV auto transformer.
Supporting Statement:	The Bowen #10 500/230kV auto transformer overloads under contingency.

In-Service Year:	2031
Project Name:	**CALVERT – WEST MCINTOSH 230 KV TRANSMISSION LINE**
Description:	Reconductor approximately 11 miles of 1351 ACSR 54/19 100C to 1351 ACSS 200C from Calvert SS - West McIntosh
Supporting Statement:	The Calvert - West McIntosh 230 kV transmission line overloads under contingency.

In-Service Year:	2031
Project Name:	**CORNELIA - TALLULAH LODGE 115KV REBUILD**
Description:	Rebuild approximately 9.7 miles of the Cornelia - Tallulah Lodge 115kV line.
Supporting Statement:	The Cornelia - Tallulah Lodge 115kV line overloads under contingency.

In-Service Year:	2031
Project Name:	**EAST POINT - UNION CITY (WHITE) 230KV REBUILD**
Description:	Rebuild a section of the East Point - Union City 230kV line.
Supporting Statement:	The East Point - Union City 230kV line overloads under contingency.

In-Service Year:	2031
Project Name:	**GREENVILLE AREA SOLUTION**
Description:	Construct 230 kV ring bus at Greenville TS
Supporting Statement:	Provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2031
Project Name:	**HATCH - WADLEY 500 KV LINE STRATEGIC PROJECT**
Description:	Construct a new-65 mile, 500kV line from Hatch to Wadley Primary.
Supporting Statement:	The new Hatch - Wadley Primary 500kV Line addresses the increasing penetration of renewable generation plants and load growth.

In-Service Year:	2031
Project Name:	**MEAG: PIO NONO 230/115KV AREA SOLUTION**
Description:	Build the Pio Nono 4 - breaker 230kV ring bus to terminate lines from Dorsett, South Griffin, and Pitts. Install a 400MVA auto transformer and build a 115kV yard to terminate a line from Broadway. Make all necessary modifications to accommodate all the 230kV and 115kV lines terminations.
Supporting Statement:	This project addresses reduces multiple 230 kV line loadings, resolves 115kV overloads and provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2031
Project Name:	**PLANT SWEATT – NEWTON 115 KV TRANSMISSION LINE REBUILD**
Description:	Rebuild approximately 19.5 mile, 115 kV transmission line segments between EMEPA's Lost Gap tap and Newton substations with 1033 ACSR at 100°C.
Supporting Statement:	The Plant Sweatt to Newton 115 kV overloads under contingency.

In-Service Year:	2031
Project Name:	**UNION SPRINGS - PINCKARD 115 KV TRANSMISSION LINE**
Description:	Rebuild approximately 10.6 miles of 397 ACSR of the Pinckard – Ewell SS 115 kV TL from 397 ACSR at 49°C to 795 ACSS at 200°C. Reconductor approximately 50 miles of 397 ACSR at 49°C Union Springs – Ewell 115 kV TL to 795 ACSS at 200°C
Supporting Statement:	The Union Springs - Pinckard 115 kV TL overloads under contingency.

In-Service Year:	2032
Project Name:	**COLEMAN - MELDRIM 115KV LINE REBUILD**
Description:	Rebuild approximately 3 miles of the Coleman - Meldrim 115kV line.
Supporting Statement:	The Coleman - Meldrim 115kV line overloads under contingency.

In-Service Year:	2032
Project Name:	**MEAG: SOUTH GRIFFIN 230/115KV BANK #5**
Description:	Replace the 230/115kV auto transformer with larger rated auto transformer at South Griffin
Supporting Statement:	The South Griffin 230/115kV auto transformer exceeds its rating under contingency.

In-Service Year:	2032
Project Name:	**PELL CITY AREA SOLUTION**
Description:	Construct new Pell City Industrial Park SS and new approximately 12 mile 115 kV TL from Pell City Industrial Park SS – Jackson Shoals TS utilizing 795 26/7 ACSR @ 100°C. Convert East Pell City DS and 25th Street DS to 115 kV
Supporting Statement:	Low voltage and thermal constraints in the area under contingency. This project provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2032
Project Name:	**WESTERN AREA SOLUTION**
Description:	Construct ~55 miles of new 230 kV TL of bundled (2) 1351 ACSR or equivalent from Greene Co to North Selma and ~25 miles from North Selma to a new South Billingsley 230 kV SS.
Supporting Statement:	The Greene County - North Selma 230 kV transmission line overloads under contingency. Reduces multiple 115 kV and 230 kV line loadings and provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2033
Project Name:	**ARKWRIGHT BUS AND JUMPER REPLACEMENT**
Description:	Replace the 115kV bus at Arkwright and replace limiting element on the Arkwright - Forrest Rd (Macon) 115kV line.
Supporting Statement:	The Arkwright - Forrest Road (Macon) 115kV line overloads under contingency.

In-Service Year:	2033
Project Name:	**BAY CREEK - CONYERS 230KV LIMITING ELEMENT REPLACEMENT**
Description:	Replace the limiting elements along the Bay Creek - Conyers 230kV line.
Supporting Statement:	The Bay Creek - Conyers 230kV line will overload under certain contingency.

In-Service Year:	2033
Project Name:	**EVANS PRIMARY - THURMOND DAM (USA) #5 115KV REBUILD**
Description:	Rebuild approximately 5.45 miles of the Evans Primary - Thurmond Dam (USA) #5 115kV line. Replace limiting element on the line at Thurmond Dam (USA).
Supporting Statement:	The Evans Primary - Thurmond Dam (USA) #5 115kV line overloads under contingency.

In-Service Year:	2033
Project Name:	**EVANS PRIMARY - THURMOND DAM (USA) #6 115KV REBUILD**
Description:	Rebuild approximately 8.9 miles of the Evans Primary - Thurmond Dam (USA) #6 115kV line. Replace limiting element on the line at Thurmond Dam (USA).
Supporting Statement:	The Evans Primary - Thurmond Dam (USA) #6 115kV line overloads under contingency.

In-Service Year:	2033
Project Name:	**GTC: CENTER PRIMARY - CLARKSBORO 230 KV REBUILD**
Description:	Rebuild the Center Primary - Clarksboro Primary 230kV line (approx. 8.3 miles).
Supporting Statement:	The Center Primary - Clarksboro 230kV line overloads under contingency.

In-Service Year:	2033
Project Name:	**GTC: CLARKSBORO - WINDER PRIMARY 230KV REBUILD**
Description:	Rebuild approximately 14 miles of the Clarksboro - Winder 230kV line.
Supporting Statement:	The Clarksboro - Winder 230kV line overloads under contingency.

In-Service Year:	2033
Project Name:	**GTC: EAST SOCIAL CIRCLE - SNELLVILLE 230KV EQUIPMENT REPLACEMENT**
Description:	Replace limiting equipment on the East Social Circle - Snellville 230kV line.
Supporting Statement:	Equipment on the East Social Circle - Snellville 230kV line overloads under contingency.

In-Service Year:	2033
Project Name:	**GTC: EAST WALTON - MIDDLE FORK 500KV**
Description:	Construct a new 500kV line from East Walton to Middle Fork, approximately 45 miles long. Make all necessary accommodations for new 500kV breakers at East Walton and Middle Fork substations.
Supporting Statement:	This project reduces multiple 230 kV line loadings, and provides additional operational and maintenance flexibility, which increases reliability.

In-Service Year:	2033
Project Name:	**GTC: SHOAL CREEK - SOUTH HALL 230KV REBUILD**
Description:	Rebuild approximately 7.9 miles of the Shoal Creek - South Hall 230kV line. Upgrade limiting elements on the line.
Supporting Statement:	The Shoal Creek - South Hall 230kV line overloads under contingency.

In-Service Year:	2033
Project Name:	**MCEVER ROAD - SHOAL CREEK 115KV REBUILD PHASE III**
Description:	Rebuild approximately 2.9 miles of the McEver Road - Shoal Creek 115kV line.
Supporting Statement:	The McEver Road - Shoal Creek 115kV line overloads under contingency.

In-Service Year:	2033
Project Name:	**MCGRAU FORD - MIDDLE FORK 500KV LINE PROJECT**
Description:	Construct a new 500kV line from McGrau Ford to Middle Fork and make necessary modifications at McGrau Ford and Middle Fork to accommodate new line.
Supporting Statement:	This is a strategic project to support the load growth in north Georgia and to transport the expected generation additions in Northeast Georgia.

In-Service Year:	2033
Project Name:	**MELDRIM BANK D REPLACEMENT**
Description:	Replace Meldrim 230/115kV auto transformer.
Supporting Statement:	Meldrim 230/115kV auto transformer overloads under contingency.

In-Service Year:	2033
Project Name:	**PINE GROVE PRIMARY - WEST VALDOSTA 115 KV RECONDUCTOR**
Description:	Rebuild approximately 3.7 miles of the Pine Grove Primary - West Valdosta 115kV transmission line.
Supporting Statement:	The Pine Grove - West Valdosta 115kV line overloads under contingency.

In-Service Year:	2033
Project Name:	**WINDER PRIMARY 230KV BUS 1-2 PARALLEL BUS-TIE INSTALLATION**
Description:	Install a 2nd bus - tie breaker at the Winder Primary substation.
Supporting Statement:	The Bay Creek - LGE Monroe 230kV line will overload under contingency.

In-Service Year:	2034
Project Name:	**DAWSON CROSSING - GAINESVILLE #1 115 KV**
Description:	Replace the main bus at Gainesville #1 115kV with larger size.
Supporting Statement:	The main bus at Gainesville #1 115kV overloads under contingency.

In-Service Year:	2034
Project Name:	**EVANS PRIMARY - THOMSON PRIMARY 115KV REBUILD**
Description:	Rebuild the Thomson Primary to Pumpkin Center 115kV line section of the Evans Primary - Thomson Primary 115kV line.
Supporting Statement:	The Thomson Primary to Pumpkin Center 115kV line section of the Evans Primary - Thomson Primary 115kV line overloads under contingency.

In-Service Year:	2034
Project Name:	**LITTLE OGEECHEE 230/115KV BANK REPLACEMENT**
Description:	Replace Little Ogeechee 230/115kV auto transformer.
Supporting Statement:	Auto transformer at Little Ogeechee substation overloads under contingency.

In-Service Year:	2025
Project Name:	**ALCOA SS – NIXON ROAD 161 KV TRANSMISSION LINE**
Description:	Rebuild approximately 12.0 miles of the Alcoa North – Nixon Road 161 kV transmission line with 1590 ACSR at 100°C and construct approximately 4.0 miles of new transmission line to create the Alcoa SS – Nixon Rd 161 kV #2 transmission line.
Supporting Statement:	The Alcoa Switching Station – Nixon Road 161 kV transmission line overloads under contingency.

In-Service Year:	2025
Project Name:	**NORTH DAYTON 161 KV TRANSMISSION LINE**
Description:	Construct North Dayton 161 kV substation. Loop in Sequoyah - Watts Bar HP 161 kV transmission line into new substation by constructing approximately 27.0 miles of transmission line using 1351 ACSR.
Supporting Statement:	Additional thermal capacity and voltage support is needed in the North Dayton, TN area under contingency.

In-Service Year:	2025
Project Name:	**TIPTONVILLE-NEW MADRID #2 TIE LINE**
Description:	Construct approximately 5.3 miles of new 161 kV transmission line from Tiptonville to New Madrid to form the second circuit, and reconductor approximately 5.3 miles of the Tiptonville to New Madrid 161 kV #1 transmission line section with 1590 ACSS at 180°C.
Supporting Statement:	Additional thermal capacity on this path is needed.

In-Service Year:	2025
Project Name:	**WILSON - LEBANON 161 KV TRANSMISSION LINE**
Description:	Rebuild approximately 6.0 miles on the Wilson - Lebanon 161 kV transmission line with 636 ACSR at 100°C and upgrade terminal equipment to 230 MVA at Lebanon 161 kV substation.
Supporting Statement:	The Wilson - Lebanon 161 kV transmission line overloads under contingency.

In-Service Year:	2026
Project Name:	**BRADLEY 500 KV SWITCH HOUSE**
Description:	Construct a new 500 kV switch house.
Supporting Statement:	Additional thermal capacity and voltage support is needed in the Bradley County, TN area under contingency.

In-Service Year:	2026
Project Name:	**CUMBERLAND COMBINED CYCLE GENERATION INTERCONNECTION**
Description:	Construct new 500kV station to interconnect new natural gas fired CC generation. Loop in two nearby 500kV TLs.
Supporting Statement:	Scope is driven by the interconnection of new generation. This is Q483 in TVA's Interconnection Queue which is publicly available on TVA's OASIS.

In-Service Year:	2026
Project Name:	**DICKSON 161 KV AREA IMPROVEMENT**
Description:	Construct new Locust Creek 161 kV substation. Construct approximately 9.5 miles of new 161 kV transmission line from Bon Aqua to Burns. Rebuild approximately 8 miles of 161 kV transmission line between Dickson and Ponoma tap. Build a new switch house at Dickson.
Supporting Statement:	Voltage support is needed in the Dickson, TN area under contingency.

In-Service Year:	2026
Project Name:	**LOVING, KY 161KV STATION**
Description:	Construct the Loving, KY 161kV Substation. Reconductor approximately 26.71 miles of transmission line from Bowling Green to Lost City with 1351 ACSS at 140°C. Reconductor approximately 8.64 miles of transmission line from Bowling Green to East Bowling Green with 1351 ACSS at 135°C.
Supporting Statement:	Additional voltage support & thermal capacity is needed in the Bowling Green area for economic development.

In-Service Year:	2026
Project Name:	**PHILADELPHIA REACTOR**
Description:	Install three 27MVAR reactors at the Philadelphia 161kV Substation.
Supporting Statement:	Voltage support is needed in TVA's Mississippi area under contingency.

In-Service Year:	2027
Project Name:	**BELMONT PHASE 2**
Description:	Construct approximately 18.0 miles of new 161 kV transmission line from Clay - Artesia using 954 ACSR at 100°C
Supporting Statement:	Voltage support and additional capacity is needed for economic development in the TVA's Mississippi area

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In-Service Year:	2027
Project Name:	**CORDOVA - YUM YUM TL RECONDUCTOR**
Description:	Reconductor approximately 23.5 miles of the Cordova - Yum Yum 161 kV transmission line section with TS - 1098.6 kcmil Ruddy, sag temp 180°C.
Supporting Statement:	Additional thermal capacity is needed for economic development in the Memphis, TN area

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In-Service Year:	2027
Project Name:	**HILLSBORO SOLAR GENERATION INTERCONNECTION**
Description:	Construct new 161kV station to interconnect new solar generation. Loop in an existing 161kV TL to the new station. Reconductor an existing TL.
Supporting Statement:	Scope is driven by the interconnection of new generation. This is Q385 in TVA's Interconnection Queue which is publicly available on TVA's OASIS.

In-Service Year:	2027
Project Name:	**KINGSTON CC AND AERODERIVATIVE CT GENERATION INTERCONNECTION**
Description:	Construct new 161kV station to interconnect new natural gas fired CC and Aeroderivative generation. Loop in area 161kV TLs. Upgrade fifteen existing 161kV TLs to increase the thermal rating of each.
Supporting Statement:	Scope is driven by the interconnection of new generation. This is Q489 in TVA's Interconnection Queue which is publicly available on TVA's OASIS.

In-Service Year:	2027
Project Name:	**LAWRENCE COUNTY SOLAR GENERATION INTERCONNECTION**
Description:	Construct new 161kV station to interconnect new solar generation. Loop in an existing 161kV TL to the new station.
Supporting Statement:	Scope is driven by the interconnection of new generation. This is Q405 in TVA's Interconnection Queue which is publicly available on TVA's OASIS.

In-Service Year:	2027
Project Name:	**LIMESTONE - SEWELL 161 KV #2 TRANSMISSION LINE**
Description:	Construct approximately 2.1 miles of 161 kV transmission line with 2034 ACSR at 100°C on the existing Limestone - Sewell 161 kV double circuit towers and add breakers to the 161-kV switchyard to make a double breakered 161-kV station.
Supporting Statement:	Additional thermal capacity and voltage support is needed in the Huntsville, AL area under contingency.

In-Service Year:	2027
Project Name:	**NORMANDY LAKE TULLAHOMA SOLAR GENERATION INTERCONNECTION**
Description:	Construct new 161kV station to interconnect new solar generation. Loop in an existing 161kV TL to the new station.
Supporting Statement:	Scope is driven by the interconnection of new generation. This is Q445 in TVA's Interconnection Queue which is publicly available on TVA's OASIS.

In-Service Year:	2027
Project Name:	**NORTH OAKLAND - COFFEEVILLE 161 KV TRANSMISSION LINE**
Description:	Construct approximately 18.0 miles of new 161 kV transmission line from North Oakland - Coffeeville using 954 ACSR at 100°C and upgrade terminal equipment to 472 MVA at Batesville 161 kV substation.
Supporting Statement:	Multiple 161 kV transmission lines overload under contingency.

In-Service Year:	2027
Project Name:	**ST. ELMO, KY 161 KY SUBSTATION**
Description:	Construct new 161kV substation. Loop in Edgoten-Casky 161kV transmission line (approximately 0.6 miles from station to loop point). Loop in Paradise-Clarksville 161kV transmission line (approximately 10 miles from station to loop point).
Supporting Statement:	Voltage support and additional capacity is needed for economic development in the Bowling Green area.

In-Service Year:	2027
Project Name:	**TRIFECTA SOLAR GENERATION INTERCONNECTION**
Description:	Connect new generation via a new line tap on the Red Hills - Leake 161kV TL.
Supporting Statement:	Scope is driven by the interconnection of new generation. This is Q522 in TVA's Interconnection Queue which is publicly available on TVA's OASIS.

In-Service Year:	2028
Project Name:	**DAVIDSON 500 KV SWITCH HOUSE**
Description:	Construct a new 500 kV switch house with all new assets and replace aging assets in the Davidson Yard.
Supporting Statement:	Additional thermal capacity and voltage support is needed in the Davidson County, TN area under contingency.

In-Service Year:	2028
Project Name:	**HORUS SOLAR GENERATION INTERCONNECTION**
Description:	Connect new generation via a new line tap on the Franklin-Portland 161kV TL.
Supporting Statement:	Scope is driven by the interconnection of new generation. This is Q388 in TVA's Interconnection Queue which is publicly available on TVA's OASIS.

In-Service Year:	2028
Project Name:	**LIMESTONE 500KV DOUBLE BREAKER AND LOOP**
Description:	Construct a double breaker station in the 500kV yard at Limestone and loop in the Browns Ferry - Maury 500kV TL.
Supporting Statement:	The Trinity 500/161kV transformer overloads under contingency.

In-Service Year:	2028
Project Name:	**MIDWAY - S MACON - DEKALB 161 KV TRANSMISSION LINE**
Description:	Construct approximately 20 miles new 161 kV transmission line from Midway to S Macon and approximately 31.3 miles new 161 kV transmission line from S Macon to Dekalb via Scooba.
Supporting Statement:	Voltage support is needed in TVA's Mississippi area under contingency.

In-Service Year:	2028
Project Name:	**SPRING VALLEY SOLAR GENERATION INTERCONNECTION**
Description:	Construct new 161kV station to interconnect new solar generation. Loop in an existing 161kV TL to the new station. Reconductor an existing TL.
Supporting Statement:	Scope is driven by the interconnection of new generation. This is Q387 in TVA's Interconnection Queue which is publicly available on TVA's OASIS.

In-Service Year:	2029
Project Name:	**APALACHIA AREA IMPROVEMENT PLAN**
Description:	Construct Martin's Creek 161 kV substation. Construct approximately 25 miles of new TL from Apalachia 161 kV substation to Ranger 161 kV switching station.
Supporting Statement:	The Apalachia - Basin 161 kV transmission line overloads under contingency.

In-Service Year:	2030
Project Name:	**HAMPTON 500 KV STATION**
Description:	Construct new 500/161 kV Hampton station. Loop in existing Montgomery-Wilson 500kV line (approximately 0.1 mile from station to loop point). Loop in existing double circuit 161kV from Montgomery to Hemlock.
Supporting Statement:	Additional thermal capacity and voltage support is needed in the Montgomery County, TN & Todd County, KY area under contingency.

In-Service Year:	2030
Project Name:	**SEQUOYAH 500 KV SWITCH HOUSE**
Description:	Construct a new 500 kV switch house with new assets including breakers at the Sequoyah 500 kV substation
Supporting Statement:	Additional thermal capacity and voltage support is needed in the Hamilton County, TN area under contingency.

VI. Appendix 1: AECI BAA

The following information provides a more granular overview of the AECI BAA input assumptions and transmission expansion plan that are incorporated in the development of the SERTP regional transmission plan.

Table A1.1: 2024 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage (AECI BAA)

AECI BAA	100-120 kV	121-150 kV	151-199 kV	200-299 kV	300-399 kV	400-550 kV
Transmission lines – New (Circuit Mi.)	--	--		--	--	--
Transmission Lines – Uprates[1] (Circuit Mi.)	--		64.87	--	--	--
Transformers[2] – New	--	--	--	--	--	--
Transformers[2] – Replacements	--			--	--	--

1 A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line.

2 The voltages shown represent the operating voltages on the high side terminals of the transformer.

Table A1.2: Interface commitments[1] modeled in the SERTP Summer Peak models – AECI BAA

To	2026	2029	2034
SPP	-623	-623	-623
MISO	-551	-533	-533
Total	-1174	-1156	-1156

1 A positive number represents a net export from the AECI BAA.

A detailed listing of the changes in generation assumptions within the AECI BAA throughout the ten (10) year planning horizon, including the year(s) in which they occur, is provided in Table A1.3 below. Table A1.4 provides a listing of generation assumptions based upon long-term, firm point-to-point commitments. The capacity (MW) values shown for each year reflect summer peak conditions. Table A1.5 provides a listing of all generators modeled in the 2024 Version 3 Summer Peak power flow model.

Table A1.3: Changes in Generation Assumptions Based Upon LSEs – AECI BAA

SITE	FUEL TYPE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
None											

Table A1.4: Generation Assumptions Based Upon Expected Long-term, Firm Point-to-Point Commitments – AECI BAA

SITE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
None										

Table A1.5*: Generating Units Modeled in the 2024 Version 3 Summer Peak Power flow Model – AECI BAA*

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Thomas Hill	300001	1THLG1	1	Coal	177	Coal	177
Thomas Hill	300002	1THLG2	1	Coal	285	Coal	285
Thomas Hill	300003	1THLG3	1	Coal	747	Coal	747
New Madrid	300006	1NM G1	1	Coal	624.3	Coal	624.3
New Madrid	300007	1NM G2	1	Coal	607.6	Coal	607.6
Bluegrass Ridge	300008	1GNTRYG1	1	Wind	56.7	Wind	56.7
Cow Branch	300009	1ACHSNG1	1	Wind	50.4	Wind	50.4
St. Francis	300010	1STFRG1	1	Natural Gas	245	Natural Gas	245
St. Francis	300011	1STFRG2	1	Natural Gas	225.9	Natural Gas	225.9
Holden	300012	1HOLDNG11	1	Natural Gas	110.2	Natural Gas	110.2
Holden	300013	1HOLDNG12	1	Natural Gas	110.2	Natural Gas	110.2
Holden	300014	1HOLDNG13	1	Natural Gas	110.2	Natural Gas	110.2

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Chouteau	300020	1CHOTCT4	1	Natural Gas	172.3	Natural Gas	172.3
Chouteau	300021	1CHOTCT5	1	Natural Gas	172.5	Natural Gas	172.5
Chouteau	300024	1CHOTST6	1	Natural Gas	189.7	Natural Gas	189.7
Nodaway	300025	1NDWYG1	1	Natural Gas	93.1	Natural Gas	93.1
Nodaway	300026	1NDWYG2	1	Natural Gas	93.1	Natural Gas	93.1
West Plains City	300027	1WPLCTG1	1	Natural Gas	22	Natural Gas	22
West Plains City	300028	1WPLCTG2	1	Natural Gas	22	Natural Gas	22
Essex	300029	1ESSEXG	1	Natural Gas	98.1	Natural Gas	98.1
Chouteau	300031	1CHOTST3	1	Natural Gas	155	Natural Gas	155
Chouteau	300032	1CHOTCT1	1	Natural Gas	153.3	Natural Gas	153.3
Chouteau	300033	1CHOTCT2	1	Natural Gas	161.2	Natural Gas	161.2
Conception	300273	1CLYDEG1	1	Wind	50.4	Wind	50.4
Lost Creek	301358	1WINSLOWG1	1	Wind	168	Wind	168
Osage	301382	1OSAGEWINDG1	1	Wind	150	Wind	150
Mt Pleasant	301449	2MTPLCTY	1	Diesel	24	Diesel	24
White Cloud	301490	1WHITCLDG1	1	Wind	214.5	Wind	214.5
Clear Creek	301493	1CLEARCKG1	1	Wind	121	Wind	121
Clear Creek	301512	1CLEARCKG2	2	Wind	99	Wind	99
White Cloud	301585	1WHITCLDG2	2	Wind	22	Wind	22
Clear Creek	301619	1CLEARCKG3	3	Wind	22	Wind	22
Dell	338341	1EAI DELLST3	1	Natural Gas	220.4	Natural Gas	220.4
Dell	338342	1EAI DELLCT1	1	Natural Gas	181.6	Natural Gas	181.6
Dell	338343	1EAI DELLCT2	1	Natural Gas	176.3	Natural Gas	176.3
Unionville	300022	1UNION1	1	Oil	22	Oil	22
Unionville	300023	1UNION2	1	Oil	22	Oil	22

VII. Appendix 2: Duke Energy Carolinas BAA

The following information provides a more granular overview of the Duke Energy Carolinas BAA input assumptions and transmission expansion plan that are incorporated in the development of the SERTP regional transmission plan.

Table A2.1: 2024 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage (Duke Energy Carolinas BAA)

Duke Energy Carolinas BAA	100-120 kV	121-150 kV	151-199 kV	200-299 kV	300-399 kV	400-550 kV
Transmission lines – New (Circuit Mi.)	13.2	--	--	33.5	--	--
Transmission Lines – Uprates[1] (Circuit Mi.)	285.5	--	--	30.2	--	--
Transformers[2] – New	--	--	--	1	--	--
Transformers[2] – Replacements	--	--	--	8	--	--

1 A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line.

2 The voltages shown represent the operating voltages on the high side terminals of the transformer.

Table A2.2: Interface commitments[1] modeled in the SERTP Summer Peak models – Duke Energy Carolinas BAA

To	2026	2029	2034
Duke Progress East	1888	1695	1499
SCE&G	165	165	165
SC	44	36	22
Southern	0	0	0
PJM	100	100	100
SEPA	-309	-309	-309
Total	1888	1687	1177

1 A positive number represents a net export from the Duke Energy Carolinas BAA.

A detailed listing of the changes in generation assumptions within the Duke Energy Carolinas BAA throughout the ten (10) year planning horizon, including the year(s) in which they occur, is provided in Table A2.3 below. Furthermore, supplemental information regarding noteworthy generation expansion and retirements/decertifications included in the 2024 series set of SERTP power flow models is provided below, while Table A2.4 provides a listing of generation assumptions based upon long-term, firm point-to-point commitments. The capacity (MW) values shown for each year reflect summer peak conditions. Table A2.5 provides a listing of all generators modeled in the 2024 Version 3 Summer Peak power flow model.

Table A2.3: Changes in Generation Assumptions Based Upon LSEs – Duke Energy Carolinas BAA

SITE	FUEL TYPE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Allen 1	Coal	0	--	--	--	--	--	--	--	--	--
Allen 1 BESS GRR	Storage	--	--	--	167	167	167	167	167	167	167
Allen 5	Coal	0	--	--	--	--	--	--	--	--	--
Cliffside 5	Coal	574	574	574	574	574	574	0	--	--	--
Cliffside 5 Proxy[1]	Proxy Generation	--	--	--	--	--	--	574	574	574	574
Lincoln 17	Natural Gas	402	402	402	402	402	402	402	402	402	402
Marshall 1	Coal	388	388	388	388	0	--	--	--	--	--
Marshall 1 Replacement	Natural Gas	--	--	--	--	388	388	388	388	388	388
Marshall 2	Coal	392	392	392	392	0	--	--	--	--	--
Marshall 2 Replacement	Natural Gas	--	--	--	--	392	392	392	392	392	392
Marshall 3	Coal	705	705	705	705	705	705	705	0	--	--
Marshall 3 Proxy[1]	Proxy Generation	--	--	--	--	--	--	--	705	705	705
Marshall 4	Coal	711	711	711	711	711	711	711	0	--	--
Marshall 4 Proxy[1]	Proxy Generation	--	--	--	--	--	--	--	711	711	711
Monroe Solar BESS[2]	Storage	25	25	25	25	25	25	25	25	25	25
Allen BESS	Storage	--	50	50	50	50	50	50	50	50	50
Riverbend BESS	Storage	--	--	--	115	115	115	115	115	115	115
Bad Creek 4	Pumped Storage	420	420	420	420	420	420	420	420	420	420
Bad Creek II 1	Pumped Storage	--	--	--	--	--	--	--	--	--	420

SITE	FUEL TYPE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Bad Creek II 2	Pumped Storage	--	--	--	--	--	--	--	--	--	420
Bad Creek II 3	Pumped Storage	--	--	--	--	--	--	--	--	--	420
Bad Creek II 4	Pumped Storage	--	--	--	--	--	--	--	--	--	420
Apex	Solar	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9	28.9
Misenheimer	Solar	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
Pelham	Solar	32	32	32	32	32	32	32	32	32	32
Two Hearted	Solar	22	22	22	22	22	22	22	22	22	22
West River	Solar	40	40	40	40	40	40	40	40	40	40
Bear Branch	Solar	--	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5	34.5
Beaverdam	Solar	--	42	42	42	42	42	42	42	42	42
Hornet	Solar	--	73	73	73	73	73	73	73	73	73
Newberry	Solar	--	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5	74.5
Quail	Solar	--	30	30	30	30	30	30	30	30	30
Westminster	Solar	--	70	70	70	70	70	70	70	70	70
Brookcliff	Solar	--	--	50	50	50	50	50	50	50	50
Healing Springs	Solar	--	--	55	55	55	55	55	55	55	55
South Davidson	Solar	--	--	80	80	80	80	80	80	80	80
Quaker Creek	Solar	--	--	35	35	35	35	35	35	35	35
Sweetwater	Solar	--	--	34	34	34	34	34	34	34	34
Joanna White	Solar	--	--	37.5	37.5	37.5	37.5	37.5	37.5	37.5	37.5
Rutabaga	Solar	--	--	--	69.75	69.75	69.75	69.75	69.75	69.75	69.75
Bear Claw	Solar	--	--	--	28.25	28.25	28.25	28.25	28.25	28.25	28.25
Yorkshire	Solar	--	--	--	--	--	--	45	45	45	45
Hudson Place	Solar	--	--	--	--	--	--	70.7	70.7	70.7	70.7
Five Circles	Solar	--	--	--	--	--	--	74.9	74.9	74.9	74.9

[1] Generators left in model in expectation of replacement generation through the Generation Replacement Request process.

[2] Output of Monroe Solar is not changing, only adding storage. Impacts the generation output for winter models.

Table A2.4: Generation Assumptions Based Upon Expected Long-term, Firm Point-to-Point Commitments – Duke Energy Carolinas BAA

SITE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Cleveland	195	195	195	196	196	196	196	196	196	196
Broad River	925	925	925	925	925	925	925	925	925	925
Catawba	407	407	407	407	407	407	407	407	407	407
Rowan	428	373	376	370	180	180	180	180	180	180
Kings Mountain	92	92	92	92	92	92	92	92	92	92

Table A2.5: Generating Units Modeled in the 2024 Version 3 Summer Peak Power flow Model – Duke Energy Carolinas BAA

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Mill Creek	306082	1MILLCKG1 13.800	1	GAS	76	GAS	76
Mill Creek	306083	1MILLCKG2 13.800	2	GAS	76	GAS	76
Mill Creek	306084	1MILLCKG3 13.800	3	GAS	76	GAS	76
Mill Creek	306086	1MILLCKG4 13.800	4	GAS	76	GAS	76
Mill Creek	306087	1MILLCKG5 13.800	5	GAS	76	GAS	76
Mill Creek	306088	1MILLCKG6 13.800	6	GAS	76	GAS	76
Mill Creek	306090	1MILLCKG7 13.800	7	GAS	76	GAS	76
Mill Creek	306091	1MILLCKG8 13.800	8	GAS	76	GAS	76
Apex	309803	1APEXPV 44.000	PV	Solar	28.9	Solar	28.9
Bad Creek	306207	1BADCRK12 19.000	1	Pumped Hydro	420	Pumped Hydro	420
Bad Creek	306207	1BADCRK12 19.000	2	Pumped Hydro	420	Pumped Hydro	420
Bad Creek	306208	1BADCRK34 19.000	3	Pumped Hydro	420	Pumped Hydro	420
Bad Creek	306208	1BADCRK34 19.000	4	Pumped Hydro	420	Pumped Hydro	420
Broad River Energy	306222	1BRECG4 18.000	4	GAS	177	GAS	177
Broad River Energy	306224	1BRECG5 18.000	5	GAS	177	GAS	177
Broad River Energy	306314	1BRECG1 18.000	1	GAS	177	GAS	177
Broad River Energy	306315	1BRECG2 18.000	2	GAS	177	GAS	177
Broad River Energy	306316	1BRECG3 18.000	3	GAS	177	GAS	177

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Cherokee	306325	1CHEROKEG 13.800	1	GAS	52	GAS	52
Cherokee	306326	1CHEROKES 13.800	1	GAS	32	GAS	32
Lincoln	306509	1LINCLN1 13.800	1	GAS	79	GAS	79
Lincoln	306510	1LINCLN2 13.800	2	GAS	79	GAS	79
Lincoln	306511	1LINCLN3 13.800	3	GAS	79	GAS	79
Lincoln	306512	1LINCLN4 13.800	4	GAS	79	GAS	79
Lincoln	306513	1LINCLN5 13.800	5	GAS	79	GAS	79
Lincoln	306514	1LINCLN6 13.800	6	GAS	79	GAS	79
Lincoln	306515	1LINCLN7 13.800	7	GAS	79	GAS	79
Lincoln	306516	1LINCLN8 13.800	8	GAS	79	GAS	79
Lincoln	306517	1LINCLN9 13.800	9	GAS	79	GAS	79
Lincoln	306518	1LINCLN10 13.800	A	GAS	79	GAS	79
Lincoln	306519	1LINCLN11 13.800	B	GAS	79	GAS	79
Lincoln	306520	1LINCLN12 13.800	C	GAS	79	GAS	79
Lincoln	306521	1LINCLN13 13.800	D	GAS	79	GAS	79
Lincoln	306522	1LINCLN14 13.800	E	GAS	79	GAS	79
Lincoln	306523	1LINCLN15 13.800	F	GAS	79	GAS	79
Lincoln	306524	1LINCLN16 13.800	G	GAS	79	GAS	79
Rockingham County	306828	1ROCKHMG04 18.000	4	GAS	165	GAS	165
Rockingham County	306829	1ROCKHMG05 18.000	5	GAS	165	GAS	165
Rockingham County	306831	1ROCKHMG01 18.000	1	GAS	165	GAS	165
Rockingham County	306832	1ROCKHMG02 18.000	2	GAS	165	GAS	165
Rockingham County	306833	1ROCKHMG03 18.000	3	GAS	165	GAS	165
Apple 3	308387	APPLEPV3 100.00	PV	Solar	16.2	Solar	16.2
Rowan	306991	1ROWANC1 18.000	1	GAS	154	GAS	154
Rowan	306992	1ROWANC2 18.000	2	GAS	154	GAS	154
Rowan	306993	1ROWANC3 18.000	3	GAS	154	GAS	154
Rowan	306994	1ROWANC4 18.000	4	GAS	154	GAS	154

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Rowan	306995	1ROWANC5 18.000	5	GAS	154	GAS	154
Rowan	306996	1ROWANS1 18.000	6	GAS	170	GAS	170
Buzzard Roost	307037	1BUZZHYD 4.1600	1	Hydro	4.3	Hydro	4.3
Buzzard Roost	307037	1BUZZHYD 4.1600	2	Hydro	4.3	Hydro	4.3
Buzzard Roost	307037	1BUZZHYD 4.1600	3	Hydro	4.3	Hydro	4.3
Keowee	307195	1KEOWEE 13.800	1	Hydro	80	Hydro	80
Lee	307198	1LEE CT7 13.800	7	GAS	43	GAS	43
Oconee	307199	1OCONEE1 19.000	1	Nuclear	878	Nuclear	878
Oconee	307200	1OCONEE3 19.000	3	Nuclear	878	Nuclear	878
Oconee	307210	1OCONEE2 19.000	2	Nuclear	878	Nuclear	878
Jocassee	307370	1JOCASSE1 14.400	1	Pumped Hydro	195	Pumped Hydro	195
Jocassee	307371	1JOCASSE2 14.400	2	Pumped Hydro	195	Pumped Hydro	195
Jocassee	307372	1JOCASSE3 14.400	3	Pumped Hydro	195	Pumped Hydro	195
Jocassee	307373	1JOCASSE4 14.400	4	Pumped Hydro	195	Pumped Hydro	195
Gaston Shoals	307466	1GAST HY 2.4000	1	Hydro	5.7	Hydro	5.7
Apple 2	308391	APPLEPV2 100.00	PV	Solar	20	Solar	20
Turner	307599	1TURN HY 2.4000	1	Hydro	1.5	Hydro	1.5
Turner	307599	1TURN HY 2.4000	2	Hydro	1.5	Hydro	1.5
Tuxedo	307601	1TUX HYD 6.6000	1	Hydro	3.2	Hydro	3.2
Tuxedo	307601	1TUX HYD 6.6000	2	Hydro	3.2	Hydro	3.2
Cliffside	307610	1CLIFSID5 24.000	5	Coal	574	Coal/Gas	574
Ayrshire	308375	1AYRSHIRE 44.000	PV	Solar	16.8	Solar	16.8
Monroe	307614	MONROEPV 100.00	BT	Battery	25	Battery	25
Bear Branch	309860	1BEARBRNCHPV44.000	PV	Solar	34.5	Solar	34.5
Great Falls	307702	1GTFALLS 2.4000	1	Hydro	3	Hydro	3
Great Falls	307702	1GTFALLS 2.4000	2	Hydro	3	Hydro	3
Great Falls	307702	1GTFALLS 2.4000	5	Hydro	3	Hydro	3
Great Falls	307702	1GTFALLS 2.4000	6	Hydro	3	Hydro	3

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Ninety-Nine Islands	307749	1NINETY9 2.2000	1	Hydro	15	Hydro	15
Wylie	307840	1WYLIE H 6.6000	1	Hydro	18	Hydro	18
Wylie	307840	1WYLIE H 6.6000	2	Hydro	18	Hydro	18
Wylie	307840	1WYLIE H 6.6000	3	Hydro	18	Hydro	18
Wylie	307840	1WYLIE H 6.6000	4	Hydro	18	Hydro	18
Allen	307853	1ALLEN 5 100.00	5	Coal	259	Coal	259
Allen	307854	1ALLEN 1 100.00	1	Coal	167	Coal	167
Catawba	307856	1CATAWBA1 22.000	1	Nuclear	1188	Nuclear	1188
Catawba	307857	1CATAWBA2 22.000	2	Nuclear	1169	Nuclear	1169
Cedar Creek	307858	1CEDAR CK 6.6000	1	Hydro	13	Hydro	13
Cedar Creek	307858	1CEDAR CK 6.6000	2	Hydro	15	Hydro	15
Cedar Creek	307858	1CEDAR CK 6.6000	3	Hydro	15	Hydro	15
Dearborn	307859	1DEARBN1 6.6000	1	Hydro	14	Hydro	14
Dearborn	307860	1DEARBN23 6.6000	2	Hydro	14	Hydro	14
Dearborn	307860	1DEARBN23 6.6000	3	Hydro	14	Hydro	14
Fishing Creek	307861	1FISHNG C 6.6000	1	Hydro	11	Hydro	11
Fishing Creek	307861	1FISHNG C 6.6000	2	Hydro	9.5	Hydro	9.5
Lee	307882	1LEE CT8 13.800	8	Gas	43	Gas	43
Bridgewater	308079	1BRIDGEW 6.6000	1	Hydro	15.5	Hydro	15.5
Lookout Tie	308080	1LOOKOUT 6.6000	1	Hydro	9.33	Hydro	9.33
Lookout Tie	308080	1LOOKOUT 6.6000	2	Hydro	9.33	Hydro	9.33
Lookout Tie	308080	1LOOKOUT 6.6000	3	Hydro	9.33	Hydro	9.33
Marshall	308081	1MARSHAL1 20.000	1	Coal	193	GAS	387
Marshall	308081	1MARSHAL1 20.000	L	Coal	195		
Marshall	308082	1MARSHAL3 24.000	3	Coal	705	Coal	705
Oxford	308083	1OXFORD 6.6000	1	Hydro	20	Hydro	20
Rhodhiss	308084	1RHODHIS 6.6000	1	Hydro	10	Hydro	10
Rhodhiss	308084	1RHODHIS 6.6000	2	Hydro	12	Hydro	12

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Rhodhiss	308084	1RHODHIS 6.6000	3	Hydro	12	Hydro	12
Marshall	308087	1MARSHAL2 20.000	2	Coal	200	Gas	391
Marshall	308087	1MARSHAL2 20.000	L	Coal	192		
Marshall	308088	1MARSHAL4 24.000	4	Coal	711	Coal	711
Buck	308090	1BUCKG11 18.000	11	Gas	176.5	Gas	176.5
Buck	308091	1BUCKG12 18.000	12	Gas	176.5	Gas	176.5
Buck	308092	1BUCKS10 18.000	10	Gas	333	Gas	333
Bear Claw	309805	1BEARCLPV 44.000	PV			Solar	28.25
Mountain Island	308179	1MT ISLE 6.6000	1	Hydro	17	Hydro	17
Mountain Island	308179	1MT ISLE 6.6000	2	Hydro	17	Hydro	17
Mountain Island	308179	1MT ISLE 6.6000	3	Hydro	17	Hydro	17
Mountain Island	308179	1MT ISLE 6.6000	4	Hydro	17	Hydro	17
Cowans Ford	308227	1COWANS1 13.800	1	Hydro	81	Hydro	81
McGuire	308228	1MCGUIRE1 24.000	1	Nuclear	1172	Nuclear	1172
McGuire	308229	1MCGUIRE2 24.000	2	Nuclear	1165	Nuclear	1165
Cowans Ford	308237	1COWANS2 13.800	2	Hydro	81	Hydro	81
Cowans Ford	308238	1COWANS3 13.800	3	Hydro	81	Hydro	81
Cowans Ford	308239	1COWANS4 13.800	4	Hydro	81	Hydro	81
Beaverdam	308659	1BEAVERDAMPV44.000	PV	Solar	42	Solar	42
Belews Creek	308377	1BELEWS1 18.000	1	Coal/Gas	619	Coal/Gas	619
Belews Creek	308377	1BELEWS1 18.000	L	Coal/Gas	513	Coal/Gas	513
Belews Creek	308378	1BELEWS2 18.000	2	Coal/Gas	624	Coal/Gas	624
Belews Creek	308378	1BELEWS2 18.000	L	Coal/Gas	503	Coal/Gas	503
Broad River	309814	BROADRVRPV 100.00	PV	Solar	50	Solar	50
Brookcliff	309621	BROOKCLIFFPV100.00	PV			Solar	50
Cedar Cliff	308516	1CEDARCL 6.6000	1	Hydro	6.4	Hydro	6.4
Bear Creek	308517	1BEARCRK 4.1600	1	Hydro	9	Hydro	9
Tennessee Creek	308518	1TENNCRK 4.1600	1	Hydro	11.5	Hydro	11.5

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Nantahala	308558	1NANTAHA 13.200	1	Hydro	51	Hydro	51
Thorpe	308600	1THORPE 6.6000	1	Hydro	21.6	Hydro	21.6
Thorpe	308600	1THORPE 6.6000	2	Hydro	3	Hydro	3
Dan River	308603	1DNRVRG8 18.000	8	Gas	176.5	Gas	176.5
Dan River	308604	1DNRVRG9 18.000	9	Gas	176.5	Gas	176.5
Dan River	308605	1DNRVRS7 18.000	7	Gas	333	Gas	333
Cleveland County	308607	1CLEVELAND1 16.500	1	Gas	178	Gas	178
Cleveland County	308608	1CLEVELAND2 16.500	2	Gas	178	Gas	178
Cleveland County	308609	1CLEVELAND3 16.500	3	Gas	178	Gas	178
Cleveland County	308610	1CLEVELAND4 16.500	4	Gas	178	Gas	178
Lee	308613	1LEECCS10 22.000	10	Gas	329	Gas	329
Lee	308614	1LEECCG11 18.000	11	Gas	231	Gas	231
Lee	308615	1LEECCG12 18.000	12	Gas	231	Gas	231
Kings Mountain Energy Center	308653	1KMECS 18.000	1	Gas	208	Gas	208
Kings Mountain Energy Center	308654	1KMECG 21.000	2	Gas	244	Gas	244
Five Circles	309811	FIVECRCLPV 100.00	PV			Solar	74.9
Gaston	308675	1GASTONPV 44.000	PV	Solar	25	Solar	25
Healing Springs	309859	HLNGSPRNGSPV100.00	PV			Solar	55
Oxford	308683	1OXFORD2 6.6000	2	Hydro	20	Hydro	20
High Shoals	309615	1HGHSHLPV 44.000	PV	Solar	16	Solar	16
Lincoln	308692	1LINCLN17 22.000	H	Gas	525	Gas	525
Hornet	309609	HORNETPV 100.00	PV	Solar	73	Solar	73
Cliffside	308789	1CLFSDGEN 24.500	6	Coal/Gas	880	Coal/Gas	880
Clemson	308878	CLEMSONU 100.00	1	Gas	17.8	Gas	17.8
Keowee	308880	1KEOWEE2 13.800	2	Hydro	80	Hydro	80
Fishing Creek	308912	1FISHNG C2 6.6000	3	Hydro	9.5	Hydro	9.5
Fishing Creek	308912	1FISHNG C2 6.6000	4	Hydro	11	Hydro	11

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Fishing Creek	308912	1FISHNG C2 6.6000	5	Hydro	8	Hydro	8
Bridgewater	308920	1BRIDGEW2 6.6000	2	Hydro	15.5	Hydro	15.5
Hudson Place	309795	HUDPLACPV 100.00	PV			Solar	70.7
Joanna White	309719	JOANNAWPV 100.00	PV			Solar	37.5
Lick Creek	309853	LICKCRKPV 100.00	PV	Solar	50	Solar	50
Maiden Creek	308685	MAIDENCRKPV 100.00	PV	Solar	69	Solar	69
McBride	308107	UNEMC14 100.00	PV	Solar	74.9	Solar	74.9
Bad Creek II	309702	1BADCRK56 19.000	5			Pumped Hydro	420
Bad Creek II	309702	1BADCRK56 19.000	6			Pumped Hydro	420
Bad Creek II	309703	1BADCRK78 19.000	7			Pumped Hydro	420
Bad Creek II	309703	1BADCRK78 19.000	8			Pumped Hydro	420
Misenheimer	307527	MISENHEPV 100.00	PV	Solar	74.4	Solar	74.4
Mocksville	307613	1MOCKSVPV 44.000	PV	Solar	12.9	Solar	12.9
Monroe	307614	MONROEPV 100.00	PV	Solar	53.6	Solar	53.6
Newberry	309712	NEWBERYPV 100.00	PV	Solar	74.5	Solar	74.5
Partin	309606	PARTINPV 100.00	PV	Solar	50	Solar	50
Pelham	309716	1PELHAMPV 44.000	PV	Solar	32	Solar	32
Pinson	309810	1PINSONPV 44.000	PV	Solar	20	Solar	20
Quail	309902	1QUAILPV 44.000	PV	Solar	30	Solar	30
Riverbend	309792	RIVERBNDBESS100.00	BT			Battery	115
Quaker Creek	309808	1QUAKERCKPV 44.000	PV			Solar	35
Ruff	309608	1RUFFPV 44.000	PV	Solar	22	Solar	22
Rutabaga	309708	RUTAB PV 100.00	PV			Solar	69.75
Rutherford	306146	RUTHPV 100.00	PV	Solar	67	Solar	67
South Davidson	309807	SDAVDSNPV 100.00	PV			Solar	80
Speedway	309809	SPEEDWAYPV 100.00	PV	Solar	22.6	Solar	22.6
Stanly	308673	STANLYPV 100.00	PV	Solar	50	Solar	50
Stony Knoll	309789	1STONYKNLLPV44.000	PV	Solar	22.6	Solar	22.6

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Sugar	309857	SUGARPV 100.00	PV	Solar	60	Solar	60
SunEd	308784	SUNED100 100.00	PV	Solar	15	Solar	15
Sweetwater	309728	SWATERPV 100.00	PV			Solar	34
Two Hearted	309804	1TWOHRTDPV 44.000	PV	Solar	22	Solar	22
West River	306972	WESTRVRPV 100.00	PV	Solar	40	Solar	40
Westminster	309707	WESTMINSTERP100.00	PV	Solar	70	Solar	70
Wateree	309861	1WATEREE_U1 6.6000	1	Hydro	17	Hydro	17
Wateree	309862	1WATEREE_U2 6.6000	2	Hydro	17	Hydro	17
Wateree	309863	1WATEREE_U3 6.6000	3	Hydro	17	Hydro	17
Wateree	309864	1WATEREE_U4 6.6000	4	Hydro	17	Hydro	17
Wateree	309865	1WATEREE_U5 6.6000	5	Hydro	17	Hydro	17
Yorkshire	309727	YORKSHPV 100.00	PV			Solar	45
Allen	309907	ALLEN BAT 100.00	BT	Battery	50	Battery	50

VIII. Appendix 3: Duke Progress East BAA

The following information provides a more granular overview of the Duke Progress East BAA input assumptions and transmission expansion plan that are incorporated in the development of the SERTP regional transmission plan.

Table A3.1: 2024 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage (Duke Progress East BAA)

Duke Progress East BAA	100-120 kV	121-150 kV	151-199 kV	200-299 kV	300-399 kV	400-550 kV
Transmission lines – New (Circuit Mi.)	--	--	--	--	--	--
Transmission Lines – Uprates[1] (Circuit Mi.)	158.3	--	--	85.7	--	--
Transformers[2] – New	2	--	--	--	--	--
Transformers[2] – Replacements	--	--	--	--	--	--

1 A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line.

2 The voltages shown represent the operating voltages on the high side terminals of the transformer.

Table A3.2: Interface commitments[1] modeled in the SERTP Summer Peak models – Duke Progress East BAA

To	2026	2029	2034
Duke Carolinas	-1888	-1695	-1199
Duke Progress West	0	0	0
PJM	-105	-105	-105
Total	-1993	-1800	-1304

1 A positive number represents a net export from the Duke Progress East BAA.

A detailed listing of the changes in generation assumptions within the Duke Progress East BAA throughout the ten (10) year planning horizon, including the year(s) in which they occur, is provided in Table A3.3 below. Table A3.4 provides a listing of generation assumptions based upon long-term, firm point-to-point commitments. The capacity (MW) values shown for each year reflect summer peak conditions. Table A3.5 provides a listing of all generators modeled in the 2024 Version 3 Summer Peak power flow model.

Table A3.3: Changes in Generation Assumptions Based Upon LSEs – Duke Progress East BAA

SITE	FUEL TYPE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Nutbush	PV	35	35	35	35	35	35	35	35	35	35
Sapony Creek	PV	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
Camp Lejeune Battery	Battery	11	11	11	11	11	11	11	11	11	11

Table A3.4: Generation Assumptions Based Upon Expected Long-term, Firm Point-to-Point Commitments – Duke Progress East BAA

SITE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Hamlet #1 And #2	110	110	110	110	110	110	110	110	110	110
Hamlet #6	55	55	55	55	55	55	55	55	55	55
Hamlet #3	4	6	9	9	11	13	14	0	0	0

Table A3.5: Generating Units Modeled in the 2024 Version 3 Summer Peak Power flow Model – Duke Progress East BAA

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Anson CT	304993	1ANSON CT1 13.800	1	Natural Gas	57.5	Natural Gas	57.5
Anson CT	304994	1ANSON CT2 13.800	2	Natural Gas	57.5	Natural Gas	57.5
Anson CT	304995	1ANSON CT3 13.800	3	Natural Gas	57.5	Natural Gas	57.5
Anson CT	304996	1ANSON CT4 13.800	4	Natural Gas	57.5	Natural Gas	57.5
Anson CT	304997	1ANSON CT5 13.800	5	Natural Gas	57.5	Natural Gas	57.5
Anson CT	304998	1ANSON CT6 13.800	6	Natural Gas	57.5	Natural Gas	57.5

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Bay Tree Solar	305834	1BAYTRESOLGL0.6300	PV	Solar	71.3	Solar	71.3
Bladen Solar	305334	1BLADENSOLGL0.3700	PV	Solar	35	Solar	35
Blewett Hydro	304892	1BLEWETTE 1-4.8000	1	Hydro	4	Hydro	4
Blewett Hydro	304892	1BLEWETTE 1-4.8000	2	Hydro	4	Hydro	4
Blewett Hydro	304892	1BLEWETTE 1-4.8000	3	Hydro	4	Hydro	4
Blewett Hydro	304893	1BLEWETTE 4-4.8000	4	Hydro	5	Hydro	5
Blewett Hydro	304893	1BLEWETTE 4-4.8000	5	Hydro	5	Hydro	5
Blewett Hydro	304893	1BLEWETTE 4-4.8000	6	Hydro	5	Hydro	5
Blewett CT	304933	1BLW IC 1&2 13.800	C1	Natural Gas	13	Natural Gas	13
Blewett CT	304933	1BLW IC 1&2 13.800	C2	Natural Gas	13	Natural Gas	13
Blewett CT	304934	1BLW IC 3&4 13.800	C3	Natural Gas	13	Natural Gas	13
Blewett CT	304934	1BLW IC 3&4 13.800	C4	Natural Gas	13	Natural Gas	13
Brunswick Nuclear #1	304862	1BRUNSWICK#124.000	1	Nuclear	938	Nuclear	938
Brunswick Nuclear #2	304863	1BRUNSWICK#224.000	1	Nuclear	932	Nuclear	932
Buckleberry Canal Solar	305714	1BUKLEBSOLGL0.5500	PV	Solar	52.9	Solar	52.9
Bullocksville Solar	305644	1BULLOKSOLGL0.3850	PV	Solar	50.58	Solar	50.58
Cabin Creek Solar	305874	1CABCRKSOLGL0.5500	PV	Solar	71.2	Solar	71.2
County Line Solar	305384	1COLINSOL1GL0.3700	PV	Solar	71	Solar	71
Crooked Run Solar	305884	1CROOKDSOLGL0.5500	PV	Solar	71.25	Solar	71.25
Darlington County CT	304908	1DARL CO #1213.800	12	Natural Gas	115	Natural Gas	115
Darlington County CT	304909	1DARL CO #1313.800	13	Natural Gas	115	Natural Gas	115
Eden Solar	305324	1EDENSOL1GLV0.3800	PV	Solar	24.4	Solar	24.4
Eden Solar	305327	1EDENSOL2GLV0.3800	PV	Solar	24.4	Solar	24.4
Elm City Solar	305314	1ELMCTYSOLGL0.3600	PV	Solar	40.7	Solar	40.7
Fayetteville Butler Warner	304948	1FAY PWC ST 13.800	A	Natural Gas	60	Natural Gas	60
Fayetteville Butler Warner	304940	1FAY PWC1 13.800	A	Natural Gas	20	Natural Gas	20
Fayetteville Butler Warner	304941	1FAY PWC2 13.800	A	Natural Gas	20	Natural Gas	20
Fayetteville Butler Warner	304942	1FAY PWC3 13.200	A	Natural Gas	20	Natural Gas	20

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Fayetteville Butler Warner	304943	1FAY PWC4 13.200	A	Natural Gas	20	Natural Gas	20
Fayetteville Butler Warner	304944	1FAY PWC5 13.800	A	Natural Gas	20	Natural Gas	20
Fayetteville Butler Warner	304945	1FAY PWC6 13.800	A	Natural Gas	20	Natural Gas	20
Fayetteville Butler Warner	304946	1FAY PWC7 13.800	A	Natural Gas	20	Natural Gas	20
Fayetteville Butler Warner	304947	1FAY PWC8 13.800	A	Natural Gas	20	Natural Gas	20
Fayetteville Solar	305224	1FAYSOL-GLV 0.4800	PV	Solar	23.4	Solar	23.4
Fox Creek Solar	305664	1FOXCRKSOLGL0.5500	PV	Solar	50.2	Solar	50.2
Frazier Solar	305674	1FRAZERSOLGL0.5500	PV	Solar	51	Solar	51
Gold Valley Solar	305464	1GOLDVYSOLGL0.5500	PV	Solar	80	Solar	80
Hamlet CT	304987	1HAMLET CT1 13.800	1	Natural Gas	56	Natural Gas	56
Hamlet CT	304988	1HAMLET CT2 13.800	2	Natural Gas	56	Natural Gas	56
Hamlet CT	304989	1HAMLET CT3 13.800	3	Natural Gas	56	Natural Gas	56
Hamlet CT	304990	1HAMLET CT4 13.800	4	Natural Gas	56	Natural Gas	56
Hamlet CT	304991	1HAMLET CT5 13.800	5	Natural Gas	56	Natural Gas	56
Hamlet CT	304992	1HAMLET CT6 13.800	6	Natural Gas	56	Natural Gas	56
Harris Nuclear	304865	1HARRIS 22.000	1	Nuclear	964.0001	Nuclear	964.0001
Lee Steam Plant	304961	1LEE CC_1A 16.500	1A	Natural Gas	170	Natural Gas	170
Lee Steam Plant	304962	1LEE CC_1B 16.500	1B	Natural Gas	170	Natural Gas	170
Lee Steam Plant	304963	1LEE CC_1C 16.500	1C	Natural Gas	170	Natural Gas	170
Lee Steam Plant	304964	1LEE CC_S1 19.500	S1	Solar	378	Solar	378
Maxton Solar	305424	1MAXTNSOLGLV0.3700	PV	Solar	34.4	Solar	34.4
Mayo Plant	304873	1MAYO #1 20.000	1	Coal	704	Coal	704
Nutbush Solar	305584	1NUTBSHSOLGL0.6300	PV	Solar	35.5	Solar	35.5
Richmond County Plant	304971	1RICH CT1 18.000	1	Natural Gas	157	Natural Gas	157
Richmond County Plant	304980	1RICH CT10 16.500	10	Natural Gas	178	Natural Gas	178
Richmond County Plant	304972	1RICH CT2 18.000	2	Natural Gas	156	Natural Gas	156
Richmond County Plant	304973	1RICH CT3 18.000	3	Natural Gas	155	Natural Gas	155
Richmond County Plant	304974	1RICH CT4 18.000	4	Natural Gas	159	Natural Gas	159

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Richmond County Plant	304975	1RICH CT6 18.000	6	Natural Gas	145	Natural Gas	145
Richmond County Plant	304976	1RICH CT7 18.000	7	Natural Gas	152	Natural Gas	152
Richmond County Plant	304977	1RICH CT8 18.000	8	Natural Gas	152	Natural Gas	152
Richmond County Plant	304979	1RICH CT9 16.500	9	Natural Gas	178	Natural Gas	178
Richmond County Plant	304978	1RICH ST4 18.000	S4	Natural Gas	171	Natural Gas	171
Richmond County Plant	304981	1RICH ST5 18.000	S5	Natural Gas	252	Natural Gas	252
Robinson Nuclear	304864	1ROBINSON#2 22.000	1	Nuclear	759	Nuclear	759
Roslin Solar	305414	1ROSLNSOL1GL0.3700	PV	Solar	40	Solar	40
Roslin Solar	305417	1ROSLNSOL2GL0.3700	PV	Solar	39	Solar	39
Rowan Solar	305394	1ROWANSOL1GL0.3570	PV	Solar	20.5	Solar	20.5
Rowan Solar	305397	1ROWANSOL2GL0.3570	PV	Solar	18.9	Solar	18.9
Roxboro Plant	304869	1ROXBORO #1 22.000	1	Coal	379	Coal	379
Roxboro Plant	304870	1ROXBORO #2 24.000	1	Coal	668	Coal	668
Roxboro Plant	304871	1ROXBORO #3 24.000	1	Coal	694	Coal	694
Roxboro Plant	304872	1ROXBORO #4 24.000	1	Coal	698	Coal	698
Sandy Bottom Solar	305454	1SANDYBSOLGL0.6000	PV	Solar	49.6	Solar	49.6
Sapony Creek Solar	305574	1SAPCRKSOLGL0.6300	PV	Solar	23.7	Solar	23.7
Shoe Creek Solar	305634	1SHOECKSOLGL0.3850	PV	Solar	65.36	Solar	65.36
Sneedsboro Solar	305404	1SNEEDSOL1GL0.3570	PV	Solar	38.8	Solar	38.8
Sneedsboro Solar	305407	1SNEEDSOL2GL0.3570	PV	Solar	40.9	Solar	40.9
Sutton County Plant	305911	1SUT CC 1A 16.500	1A	Natural Gas	173	Natural Gas	173
Sutton County Plant	305912	1SUT CC 1B 16.500	1B	Natural Gas	173	Natural Gas	173
Sutton County Plant	305913	1SUT CC ST 21.000	ST	Natural Gas	268	Natural Gas	268
Sutton County Plant	304919	1SUTTONCT4 13.800	4	Natural Gas	42	Natural Gas	42
Sutton County Plant	304920	1SUTTONCT5 13.800	5	Natural Gas	42	Natural Gas	42
Sycamore Creek Solar	305894	1SYCAMRSOLGL0.6300	PV	Solar	49.4	Solar	49.4
Tillery Hydro	304888	1TILLERY #1 13.800	1	Hydro	21	Hydro	21
Tillery Hydro	304889	1TILLERY #2 13.800	1	Hydro	18	Hydro	18

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Tillery Hydro	304890	1TILLERY #3 13.800	1	Hydro	21	Hydro	21
Tillery Hydro	304891	1TILLERY #4 13.800	1	Hydro	25	Hydro	25
Trent River Solar	305544	1TRENTRSOLGL0.6300	PV	Solar	79.9	Solar	79.9
Turnbull Creek Solar	305534	1TURNBLSOLGL0.5500	PV	Solar	51	Solar	51
Warsaw Solar	305903	1WARSWSOL1GL0.3600	PV	Solar	40.2	Solar	40.2
Warsaw Solar	305906	1WARSWSOL2GL0.3600	PV	Solar	25.6	Solar	25.6
Wayne County Plant	304956	1WAYNE CO#1018.000	10	Natural Gas	169	Natural Gas	169
Wayne County Plant	304957	1WAYNE CO#1118.000	11	Natural Gas	174	Natural Gas	174
Wayne County Plant	304958	1WAYNE CO#1218.000	12	Natural Gas	164	Natural Gas	164
Wayne County Plant	304959	1WAYNE CO#1318.000	13	Natural Gas	162	Natural Gas	162
Wayne County Plant	304960	1WAYNE CO#1418.000	14	Natural Gas	153	Natural Gas	153
Willard Solar	305474	1WILARDSOLGL0.6000	PV	Solar	34.7	Solar	34.7
Weatherspoon CT	304924	1WSPN IC#1 13.800	A	Natural Gas	31	Natural Gas	31
Weatherspoon CT	304925	1WSPN IC#2 13.800	A	Natural Gas	31	Natural Gas	31
Weatherspoon CT	304927	1WSPN IC#3 13.800	A	Natural Gas	32	Natural Gas	32
Weatherspoon CT	304928	1WSPN IC#4 13.800	A	Natural Gas	30	Natural Gas	30
Distributed Generation	304221	2PA-ROCKMT T69.000	PV	Solar	4.999	Solar	4.999
Distributed Generation	304364	3ABERDEEN 115.00	PV	Solar	2.243	Solar	2.243
Distributed Generation	304312	3ASHEBOR E T115.00	PV	Solar	5.017	Solar	5.017
Distributed Generation	304319	3ASHEBORO NO115.00	PV	Solar	9.938	Solar	9.938
Distributed Generation	304408	3BEARD 115.00	PV	Solar	20.075	Solar	20.075
Distributed Generation	304281	3BELFAST 115.00	PV	Solar	15.611	Solar	15.611
Distributed Generation	304280	3BEULAVILLE 115.00	PV	Solar	21.003	Solar	21.003
Distributed Generation	304294	3BISCOE SUB 115.00	PV	Solar	25.083	Solar	25.083
Distributed Generation	304574	3BLADENBORO 115.00	PV	Solar	14.53	Solar	14.53
Distributed Generation	304464	3BRIDGETON 115.00	PV	Solar	10.001	Solar	10.001
Distributed Generation	304513	3BURGAW SUB 115.00	PV	Solar	19.776	Solar	19.776
Distributed Generation	304306	3CANDOR 115.00	PV	Solar	19.856	Solar	19.856

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Distributed Generation	304589	3CHADBORN 115.00	PV	Solar	13.827	Solar	13.827
Distributed Generation	304719	3CHERAW 115.00	PV	Solar	2.956	Solar	2.956
Distributed Generation	304570	3CLARKTON 115.00	PV	Solar	11.947	Solar	11.947
Distributed Generation	304170	3CLAYTON 115.00	PV	Solar	4.711	Solar	4.711
Distributed Generation	304256	3CLINT FERRE115.00	BG	Biogas	1.76	Biogas	1.76
Distributed Generation	304256	3CLINT FERRE115.00	PV	Solar	10.218	Solar	10.218
Distributed Generation	304258	3CLINTON NTH115.00	PV	Solar	15.119	Solar	15.119
Lumberton Cogen	304603	3COG LUMB SU115.00	1	Biogas	32	Biogas	32
Distributed Generation	304649	3DARL PINEVI115.00	PV	Solar	8.006	Solar	8.006
Distributed Generation	304660	3DARLINGTON 115.00	PV	Solar	12.705	Solar	12.705
Distributed Generation	304627	3DELCO 115.00	PV	Solar	19.555	Solar	19.555
Distributed Generation	304654	3DILLON 115.00	PV	Solar	6.318	Solar	6.318
Distributed Generation	305092	3E10-HOG SWM115.00	PV	Solar	7.999	Solar	7.999
Distributed Generation	305097	3E10-RENNERT115.00	PV	Solar	1.998	Solar	1.998
Distributed Generation	305098	3E10-ROCKFIS115.00	BG	Biogas	2.118	Biogas	2.118
Distributed Generation	305098	3E10-ROCKFIS115.00	PV	Solar	1.999	Solar	1.999
Distributed Generation	305099	3E10-WESTLUM115.00	PV	Solar	1.999	Solar	1.999
Distributed Generation	305107	3E14-ETHER 115.00	PV	Solar	3.989	Solar	3.989
Distributed Generation	305109	3E14-LIBERTY115.00	PV	Solar	6.5	Solar	6.5
Distributed Generation	305110	3E14-PARKWOO115.00	PV	Solar	1.999	Solar	1.999
Distributed Generation	305114	3E14-ROBBINS115.00	PV	Solar	4.998	Solar	4.998
Distributed Generation	305112	3E14-TROY 115.00	PV	Solar	1.99	Solar	1.99
Distributed Generation	305113	3E14-ULAH 115.00	PV	Solar	6.125	Solar	6.125
Distributed Generation	305129	3E15-GRAYSCR115.00	PV	Solar	5.997	Solar	5.997
Distributed Generation	305131	3E15-HARGROV115.00	PV	Solar	1.5	Solar	1.5
Distributed Generation	305134	3E15-VANDER 115.00	PV	Solar	1	Solar	1
Distributed Generation	305152	3E17-DUDLEY 115.00	PV	Solar	2	Solar	2
Distributed Generation	305159	3E17-LAGRANG115.00	PV	Solar	2	Solar	2

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Distributed Generation	305160	3E17-MT OLIV115.00	PV	Solar	1.999	Solar	1.999
Distributed Generation	305162	3E17-ROSEWOO115.00	PV	Solar	2	Solar	2
Distributed Generation	305061	3E9-DAWSON 115.00	PV	Solar	1.99	Solar	1.99
Distributed Generation	305062	3E9-EAGLE NS115.00	PV	Solar	5.002	Solar	5.002
Distributed Generation	304565	3EAGLE ISLAN115.00	PV	Solar	3.634	Solar	3.634
Distributed Generation	304572	3ELIZTOWN SU115.00	PV	Solar	4.8	Solar	4.8
Distributed Generation	304227	3ELM CITY 115.00	PV	Solar	9.993	Solar	9.993
Distributed Generation	304202	3ERWIN115 SU115.00	PV	Solar	5.078	Solar	5.078
Distributed Generation	304599	3FAIR BLUFF 115.00	PV	Solar	5	Solar	5
Distributed Generation	304448	3FAIRMONT SU115.00	PV	Solar	27.949	Solar	27.949
Distributed Generation	304613	3FLOR MARBLU115.00	PV	Solar	10.201	Solar	10.201
Distributed Generation	304659	3FLOSUB115WT115.00	PV	Solar	1.227	Solar	1.227
Distributed Generation	304240	3FREMONT 115.00	BG	Biogas	4.2	Biogas	4.2
Distributed Generation	304240	3FREMONT 115.00	PV	Solar	12.401	Solar	12.401
Distributed Generation	304152	3GARNER 115.00	PV	Solar	5.453	Solar	5.453
Distributed Generation	304153	3GARNER TRYO115.00	PV	Solar	2.545	Solar	2.545
Distributed Generation	304410	3GODWIN 115.00	PV	Solar	18.414	Solar	18.414
Distributed Generation	304282	3GOLDSB LANG115.00	PV	Solar	14.182	Solar	14.182
Distributed Generation	304459	3GRIFTON 115.00	PV	Solar	25.215	Solar	25.215
Distributed Generation	304715	3HARTSVILLE 115.00	PV	Solar	13.404	Solar	13.404
Distributed Generation	304645	3HEMINGWAY 115.00	PV	Solar	10.086	Solar	10.086
Distributed Generation	304101	3HENDER NORT115.00	PV	Solar	25.115	Solar	25.115
Distributed Generation	304277	3IND 304277 115.00	PV	Solar	3	Solar	3
Distributed Generation	304321	3IND 304321 115.00	PV	Solar	9.994	Solar	9.994
Distributed Generation	304420	3IND 304420 115.00	PV	Solar	19.8	Solar	19.8
Distributed Generation	304476	3IND 304476 115.00	A	Biogas	38	Biogas	38
Distributed Generation	304566	3IND 304566 115.00	PV	Solar	10.407	Solar	10.407
Distributed Generation	304593	3IND 304593 115.00	PV	Solar	10.011	Solar	10.011

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Industrial Gen.	304641	3IND 304641 115.00	1	Coal/Biogas	68	Coal/Biogas	68
Distributed Generation	304692	3IND 304692 115.00	BG	Biogas	1.546	Biogas	1.546
Distributed Generation	304714	3JEFFERSN SU115.00	PV	Solar	2.012	Solar	2.012
Distributed Generation	304273	3KORNEGAY SU115.00	PV	Solar	16.798	Solar	16.798
Distributed Generation	304288	3LAGRANGE 115.00	PV	Solar	20.02	Solar	20.02
Distributed Generation	304575	3LAKE WACCA 115.00	PV	Solar	5.04	Solar	5.04
Distributed Generation	304367	3LAKEVIEW 115.00	PV	Solar	5.032	Solar	5.032
Distributed Generation	304421	3LAURNB115WT115.00	PV	Solar	21.304	Solar	21.304
Distributed Generation	304326	3LIBERTY 115.00	PV	Solar	12.09	Solar	12.09
Distributed Generation	304220	3LILLINGTON 115.00	PV	Solar	15.572	Solar	15.572
Distributed Generation	304108	3LOUISBURG 115.00	PV	Solar	18.876	Solar	18.876
Distributed Generation	304681	3MANNING 115.00	PV	Solar	4.084	Solar	4.084
Distributed Generation	304647	3MAR BYPASS 115.00	PV	Solar	19.677	Solar	19.677
Distributed Generation	304632	3MARION115 T115.00	PV	Solar	9.1	Solar	9.1
Distributed Generation	304435	3MAXTON 115.00	PV	Solar	23.62	Solar	23.62
Distributed Generation	304134	3MONCURE 115.00	HY	Hydro	5.9	Hydro	5.9
Distributed Generation	304134	3MONCURE 115.00	PV	Solar	8.35	Solar	8.35
Distributed Generation	304269	3MT OLV SUB 115.00	PV	Solar	18.475	Solar	18.475
Distributed Generation	304270	3MT OLV WEST115.00	PV	Solar	23.995	Solar	23.995
Distributed Generation	304341	3MTGILEAD 115.00	PV	Solar	3.528	Solar	3.528
Distributed Generation	304630	3MULLINS 115.00	PV	Solar	6.135	Solar	6.135
Distributed Generation	304116	3NASHVILLE 115.00	PV	Solar	12.243	Solar	12.243
NCSU Gen.	304011	3NCSU GEN 115.00	1	Natural Gas	11	Natural Gas	11
Distributed Generation	304283	3NEW HOPE 115.00	PV	Solar	10.284	Solar	10.284
Distributed Generation	304629	3NICHOLS 115.00	PV	Solar	5.071	Solar	5.071
Distributed Generation	304481	3PA-AYDEN 115.00	PV	Solar	4.999	Solar	4.999
Distributed Generation	304508	3PA-KINSTON 115.00	PV	Solar	4.999	Solar	4.999
Distributed Generation	304439	3PA-LUMB#4 115.00	PV	Solar	2.036	Solar	2.036

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Distributed Generation	304644	3PAMPLICO 115.00	PV	Solar	6.867	Solar	6.867
Distributed Generation	304235	3PA-W-11 115.00	PV	Solar	19.998	Solar	19.998
Distributed Generation	304236	3PA-W-2&3 115.00	PV	Solar	28.5	Solar	28.5
Distributed Generation	304244	3PA-W-5 115.00	PV	Solar	20	Solar	20
Distributed Generation	304436	3PEMBROKE 115.00	PV	Solar	16.216	Solar	16.216
Distributed Generation	304252	3PRINCETON 115.00	PV	Solar	20.122	Solar	20.122
Distributed Generation	304413	3RAEFORD NOR115.00	PV	Solar	10.229	Solar	10.229
Distributed Generation	304381	3RAEFORD SOU230.00	PV	Solar	10	Solar	10
Distributed Generation	304146	3RAL NRTHSID115.00	PV	Solar	1.111	Solar	1.111
Distributed Generation	304328	3RAMSEUR 115115.00	HY	Hydro	1.225	Hydro	1.225
Distributed Generation	304430	3RED SPR SUB115.00	PV	Solar	19.902	Solar	19.902
Distributed Generation	304298	3ROBBINS 115.00	PV	Solar	5.022	Solar	5.022
Distributed Generation	304320	3ROCKHAM SUB115.00	PV	Solar	5.069	Solar	5.069
Distributed Generation	304345	3ROCKHAM WES115.00	PV	Solar	5.066	Solar	5.066
Distributed Generation	304260	3ROSEBORO 115.00	PV	Solar	11.036	Solar	11.036
Distributed Generation	304250	3ROSEWOOD 115.00	PV	Solar	10.069	Solar	10.069
Distributed Generation	304092	3ROXBOR 115T115.00	PV	Solar	9.087	Solar	9.087
Distributed Generation	304609	3SAMARIA 115.00	PV	Solar	29.081	Solar	29.081
Distributed Generation	304303	3SEAGROVE 115.00	PV	Solar	9.483	Solar	9.483
Distributed Generation	304177	3SELMA 115 T115.00	PV	Solar	15.723	Solar	15.723
Distributed Generation	304431	3SHANNON 115.00	PV	Solar	20.432	Solar	20.432
Distributed Generation	304335	3SILER CITY 115.00	PV	Solar	19.882	Solar	19.882
Distributed Generation	304483	3SNOW HILL 115.00	PV	Solar	13.99	Solar	13.99
Distributed Generation	304110	3SPRING HOPE115.00	PV	Solar	6.755	Solar	6.755
Distributed Generation	304406	3ST PAULS 115.00	PV	Solar	19.984	Solar	19.984
Distributed Generation	304109	3STALLING XR115.00	PV	Solar	21.124	Solar	21.124
Distributed Generation	304596	3TABOR CITY 115.00	PV	Solar	17.096	Solar	17.096
Distributed Generation	304301	3TROY 115.00	HY	Hydro	1.782	Hydro	1.782

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Distributed Generation	304301	3TROY 115.00	PV	Solar	5.021	Solar	5.021
Distributed Generation	304637	3TROY BURN S115.00	PV	Solar	10.017	Solar	10.017
Industrial Gen.	304012	3UWHARRIE LF115.00	1	Biogas	9	Biogas	9
Distributed Generation	304401	3VANDERSUB T115.00	PV	Solar	5.155	Solar	5.155
Distributed Generation	304532	3VISTA 115.00	PV	Solar	4.695	Solar	4.695
Distributed Generation	304512	3WALLACE SUB115.00	PV	Solar	22.313	Solar	22.313
Distributed Generation	304103	3WARRENTON 115.00	PV	Solar	31.27	Solar	31.27
Distributed Generation	304623	3WHITEVL SUB115.00	PV	Solar	12.172	Solar	12.172
Distributed Generation	304165	3ZEBULON SU115.00	PV	Solar	5.585	Solar	5.585
Distributed Generation	304171	6AMBERLY 230.00	PV	Solar	1.917	Solar	1.917
Distributed Generation	304214	6ANGIER 230.00	PV	Solar	10.07	Solar	10.07
Distributed Generation	304199	6ARCH LODGE 230.00	PV	Solar	8.228	Solar	8.228
Distributed Generation	304178	6AUBURN 230.00	PV	Solar	1.448	Solar	1.448
Distributed Generation	304075	6BAHAMA 230.00	PV	Solar	5.106	Solar	5.106
Distributed Generation	304198	6BAILEY 230.00	PV	Solar	24.886	Solar	24.886
Distributed Generation	304462	6BAYBORO 230.00	PV	Solar	10.1	Solar	10.1
Distributed Generation	304194	6BENSON 230.00	PV	Solar	22.584	Solar	22.584
Distributed Generation	304712	6BISHOPVILLE230.00	PV	Solar	33.705	Solar	33.705
Distributed Generation	304215	6BUIES CREEK230.00	PV	Solar	12.425	Solar	12.425
Distributed Generation	304334	6BYNUM 230.00	PV	Solar	4.733	Solar	4.733
Distributed Generation	304128	6CARY EVAN R230.00	PV	Solar	1.337	Solar	1.337
Distributed Generation	304115	6CARY TRENTO230.00	PV	Solar	2.326	Solar	2.326
Distributed Generation	304081	6CASTALIA 230.00	PV	Solar	18.948	Solar	18.948
Distributed Generation	304521	6CATHERN LAK230.00	BG	Biogas	1.753	Biogas	1.753
Distributed Generation	304521	6CATHERN LAK230.00	PV	Solar	5.334	Solar	5.334
Distributed Generation	304445	6CHOCOWINITY230.00	PV	Solar	34.527	Solar	34.527
Distributed Generation	304664	6DILLON MAPL230.00	PV	Solar	10.043	Solar	10.043
Distributed Generation	304506	6DOVER 230.00	PV	Solar	17.063	Solar	17.063

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Distributed Generation	304197	6DUNN 230.00	PV	Solar	7.173	Solar	7.173
Distributed Generation	305054	6E13-FARMVIL230.00	BG	Biogas	1.75	Biogas	1.75
Distributed Generation	305001	6E1-CHAD PEA230.00	PV	Solar	1	Solar	1
Distributed Generation	305009	6E1-DAWSCREE230.00	PV	Solar	1.2	Solar	1.2
Distributed Generation	305031	6E4-BEVERAGE230.00	BG	Biogas	1.3	Biogas	1.3
Distributed Generation	305034	6E4-POWELL 230.00	PV	Solar	2.299	Solar	2.299
Distributed Generation	305075	6E9-W ONSLOW230.00	PV	Solar	1.99	Solar	1.99
Distributed Generation	304186	6EDMONDSON 230.00	PV	Solar	10.205	Solar	10.205
Distributed Generation	304327	6ELLERBE 230.00	PV	Solar	2.009	Solar	2.009
Distributed Generation	304711	6ELLIOTT SUB230.00	PV	Solar	10.015	Solar	10.015
Distributed Generation	304289	6FARMVILLE 230.00	PV	Solar	5	Solar	5
Distributed Generation	304671	6FLOR SARDIS230.00	PV	Solar	5.285	Solar	5.285
Distributed Generation	304193	6FOUR OAKS 230.00	BG	Biogas	1.76	Biogas	1.76
Distributed Generation	304193	6FOUR OAKS 230.00	PV	Solar	18.264	Solar	18.264
Distributed Generation	304213	6FUQUAY 230.00	PV	Solar	11.71	Solar	11.71
Distributed Generation	304133	6FUQUAY BELL230.00	PV	Solar	3.134	Solar	3.134
Distributed Generation	304584	6GARLAND 230.00	PV	Solar	10.006	Solar	10.006
Distributed Generation	304140	6GARNER PANT230.00	PV	Solar	1.739	Solar	1.739
Distributed Generation	304151	6GARNER W OA230.00	PV	Solar	4.246	Solar	4.246
Distributed Generation	304267	6GRANTHAM 230.00	BG	Biogas	3.18	Biogas	3.18
Distributed Generation	304267	6GRANTHAM 230.00	PV	Solar	19.448	Solar	19.448
Distributed Generation	304180	6GREEN LEVEL230.00	PV	Solar	1.14	Solar	1.14
Distributed Generation	304452	6GREENVILE W230.00	PV	Solar	9.998	Solar	9.998
Distributed Generation	304355	6HAMLET 230.00	PV	Solar	19.502	Solar	19.502
Distributed Generation	304087	6HENDER EAST230.00	PV	Solar	33.353	Solar	33.353
Distributed Generation	304058	6HOLLY SPRG 230.00	BG	Biogas	7.3	Biogas	7.3
Distributed Generation	304058	6HOLLY SPRG 230.00	PV	Solar	1.195	Solar	1.195
Industrial Gen.	304455	6IND 304455 230.00	A	Other	42	Other	42

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Industrial Gen.	304472	6IND 304472 230.00	1	Biogas	45	Biogas	45
Distributed Generation	304672	6IND 304672 230.00	PV	Solar	4.43	Solar	4.43
Distributed Generation	304297	6JONESBORO 230.00	PV	Solar	12.014	Solar	12.014
Distributed Generation	304676	6KINGSTREE N230.00	PV	Solar	11.026	Solar	11.026
Distributed Generation	304675	6LAKE CITY 230.00	PV	Solar	4.145	Solar	4.145
Distributed Generation	304423	6LAUREL HILL230.00	PV	Solar	24.949	Solar	24.949
Distributed Generation	304422	6LAURINBGCIT230.00	PV	Solar	24.984	Solar	24.984
Lejeune Battery	304537	6LEJEUNE#2 230.00	BT	Battery	11	Battery	11
Lejeune Solar	304537	6LEJEUNE#2 230.00	PV	Solar	12.75	Solar	12.75
Distributed Generation	304418	6MCCOLL SUB 230.00	PV	Solar	8.947	Solar	8.947
Distributed Generation	304463	6NEW BERN WE230.00	BG	Biogas	4	Biogas	4
Distributed Generation	304463	6NEW BERN WE230.00	PV	Solar	25.022	Solar	25.022
Distributed Generation	304207	6NEWTON GROV230.00	PV	Solar	16.877	Solar	16.877
Distributed Generation	304674	6OLANTA 230.00	PV	Solar	2.077	Solar	2.077
Distributed Generation	304086	6OXFORD NORT230.00	PV	Solar	27.93	Solar	27.93
Distributed Generation	304080	6OXFORD SOUT230.00	PV	Solar	15.835	Solar	15.835
Distributed Generation	304229	6PA-FARMVILL230.00	PV	Solar	5	Solar	5
Distributed Generation	304188	6PA-SELMA 230.00	PV	Solar	1.98	Solar	1.98
Distributed Generation	304187	6PA-SMTHFLD2230.00	PV	Solar	1.98	Solar	1.98
Distributed Generation	304246	6PA-W12 WEC 230.00	PV	Solar	10	Solar	10
Distributed Generation	304473	6PA-WASHINTO230.00	PV	Solar	27.5	Solar	27.5
Distributed Generation	304333	6PITTSBORO 230.00	PV	Solar	10.824	Solar	10.824
Distributed Generation	304073	6RAL BL RIDG230.00	PV	Solar	1.118	Solar	1.118
Distributed Generation	304118	6RAL DU AIRP230.00	PV	Solar	1.09	Solar	1.09
Distributed Generation	304076	6RAL LEESV R230.00	PV	Solar	1.001	Solar	1.001
Distributed Generation	304528	6RHEMS 230.00	PV	Solar	20.892	Solar	20.892
Distributed Generation	304154	6ROLESVILLE 230.00	PV	Solar	1.16	Solar	1.16
Distributed Generation	304505	6ROSE HILL 230.00	PV	Solar	16.953	Solar	16.953

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Distributed Generation	304443	6ROWLAND SUB230.00	PV	Solar	9.975	Solar	9.975
Distributed Generation	304068	6ROX BOWMAN 230.00	PV	Solar	15.08	Solar	15.08
Distributed Generation	304065	6ROXB SOUTH 230.00	PV	Solar	4.126	Solar	4.126
Distributed Generation	304376	6SANF DP RVR230.00	PV	Solar	10.048	Solar	10.048
Distributed Generation	304374	6SANF GARDEN230.00	PV	Solar	17.307	Solar	17.307
Distributed Generation	304705	6SOCIETY HIL230.00	PV	Solar	2.015	Solar	2.015
Distributed Generation	304701	6SUMMERTON 230.00	PV	Solar	4.095	Solar	4.095
Distributed Generation	304703	6SUMTER NORT230.00	PV	Solar	2.161	Solar	2.161
Distributed Generation	304527	6SWANSBORO 230.00	PV	Solar	20.169	Solar	20.169
Distributed Generation	304344	6WADESBORO 230.00	PV	Solar	20.006	Solar	20.006
Distributed Generation	304359	6WADESBOW SU230.00	PV	Solar	12.314	Solar	12.314
Distributed Generation	304504	6WARSAW 230 230.00	PV	Solar	34.963	Solar	34.963
Distributed Generation	304446	6WEATHERSPOO230.00	PV	Solar	26.373	Solar	26.373
Distributed Generation	304191	6WENDELL 230.00	PV	Solar	5.26	Solar	5.26
Distributed Generation	304360	6WEST END SU230.00	PV	Solar	20.251	Solar	20.251
Distributed Generation	304620	6WILM WIN PR230.00	PV	Solar	1.026	Solar	1.026
Distributed Generation	304179	6WILSON MILL230.00	PV	Solar	10.638	Solar	10.638
Distributed Generation	304095	6YANCYVILLE 230.00	PV	Solar	14.99	Solar	14.99

IX. Appendix 4: Duke Progress West BAA

The following information provides a more granular overview of the Duke Progress West BAA input assumptions and transmission expansion plan that are incorporated in the development of the SERTP regional transmission plan.

Table A4.1: 2024 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage (Duke Progress West BAA)

Duke Progress West BAA	100-120 kV	121-150 kV	151-199 kV	200-299 kV	300-399 kV	400-550 kV
Transmission lines – New (Circuit Mi.)	2.2	--	--	10	--	--
Transmission Lines – Uprates[1] (Circuit Mi.)	--	--	--	--	--	--
Transformers[2] – New	--	--	--		--	--
Transformers[2] – Replacements	--	--	--	--	--	--

1 A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line.

2 The voltages shown represent the operating voltages on the high side terminals of the transformer.

Table A4.2: Interface commitments[1] modeled in the SERTP Summer Peak models – Duke Progress West BAA

To	2026	2029	2034
Duke Progress East	0	0	-200
Duke Carolinas	0	0	0
SC	-22	-22	-22
TVA	-14	-14	-14
Total	-36	-36	-236

1 A positive number represents a net export from the Duke Progress West BAA.

A detailed listing of the changes in generation assumptions within the Duke Progress West BAA throughout the ten (10) year planning horizon, including the year(s) in which they occur, is provided in Table A4.3 below. Table A4.4 provides a listing of generation assumptions based upon long-term, firm point-to-point commitments. The capacity (MW) values shown for each year reflect summer peak conditions. Table A4.5 provides a listing of all generators modeled in the 2024 Version 3 Summer Peak power flow model.

Table A4.3: Changes in Generation Assumptions Based Upon LSEs – Duke Progress West BAA

SITE	FUEL TYPE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
None											

Table A4.4: Generation Assumptions Based Upon Expected Long-term, Firm Point-to-Point Commitments – Duke Progress West BAA

SITE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
None										

Table A4.5: Generating Units Modeled in the 2024 Version 3 Summer Peak Power flow Model – Duke Progress West BAA

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Asheville Plant	304858	1ASHVL #3CT 18.000	3	Natural Gas	160	Natural Gas	160
Asheville Plant	304859	1ASHVL #4CT 18.000	4	Natural Gas	160	Natural Gas	160
Asheville Plant	304875	1ASHVCC1CT5 18.000	5	Natural Gas	163	Natural Gas	163
Asheville Plant	304876	1ASHVCC1ST6 13.800	6	Natural Gas	85	Natural Gas	85
Asheville Plant	304877	1ASHVCC2CT7 18.000	7	Natural Gas	161	Natural Gas	161
Asheville Plant	304878	1ASHVCC2ST8 13.800	8	Natural Gas	85	Natural Gas	85
Marshall Hydro	304856	1MARSHAL 1&24.1600	1	Hydro	2	Hydro	2
Marshall Hydro	304856	1MARSHAL 1&24.1600	2	Hydro	2	Hydro	2
Walters Hydro	304853	1WALTERS #1 13.800	1	Hydro	36	Hydro	36
Walters Hydro	304854	1WALTERS #2 13.800	1	Hydro	40	Hydro	40
Walters Hydro	304855	1WALTERS #3 13.800	1	Hydro	36	Hydro	36
Dist. Biogas	304759	3LEICESTER 115.00	BG	Biogas	1.415	Biogas	1.415
Dist. Solar	304772	3BARNARDSVIL115.00	HY	Hydro	1	Hydro	1

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Dist. Solar	304743	3CANTON115 T115.00	PV	Solar	2.112	Solar	2.112
Dist. Solar	304759	3LEICESTER 115.00	PV	Solar	4.823	Solar	4.823
Dist. Solar	304766	3ELK MOUNTAI115.00	PV	Solar	5.957	Solar	5.957
Dist. Solar	304770	3BEAVERDAM 115.00	PV	Solar	1.283	Solar	1.283
Dist. Solar	304771	3WEAVERVILLE115.00	PV	Solar	1.255	Solar	1.255
Dist. Solar	304783	1MARSHALL 22.860	PV	Solar	6.361	Solar	6.361
Dist. Solar	304790	3VANDERBLT T115.00	PV	Solar	2.036	Solar	2.036
Dist. Solar	304791	3WESTASHEV T115.00	PV	Solar	4.515	Solar	4.515
Dist. Solar	304804	3SKYLAND 115.00	PV	Solar	1.221	Solar	1.221
Dist. Solar	304806	3OTEEN SS T115.00	PV	Solar	1.395	Solar	1.395
Dist. Solar	304818	3BALDWIN 115.00	PV	Solar	1.917	Solar	1.917
Elk Mountain Battery	304766	3ELK MOUNTAI115.00	BT	Battery	5	Battery	5
Elk Mountain Hydro	304766	3ELK MOUNTAI115.00	HY	Hydro	2.5	Hydro	2.5
Rock Hill Battery	304805	3ASH ROCK HI115.00	BT	Battery	8.8	Battery	8.8

X. Appendix 5: LG&E/KU BAA

The following information provides a more granular overview of the LG&E/KU BAA input assumptions and transmission expansion plan that are incorporated in the development of the SERTP regional transmission plan.

Table A5.1: 2024 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage (LG&E/KU BAA)

LG&E/KU BAA	100-120 kV	121-150 kV	151-199 kV	200-299 kV	300-399 kV	400-550 kV
Transmission lines – New (Circuit Mi.)	--	--	--	--	--	--
Transmission Lines – Uprates[1] (Circuit Mi.)	--	30.17	22.00	--	--	--
Transformers[2] – New	--	--	--	--	--	--
Transformers[2] – Replacements	--	--	--	--	--	--

1 A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line.

2 The voltages shown represent the operating voltages on the high side terminals of the transformer.

Table A5.2: Interface commitments[1] modeled in the SERTP Summer Peak models – LG&E/KU BAA

To	2026	2029	2034
PJM	729.8	729.8	729.8
OVEC	-179	-179	-179
MISO	-247.8	-249	-250.2
Owensboro Municipal	0	0	0
TVA	-3	-3	-3
Total	300	298.8	297.6

1 A positive number represents a net export from the LG&E/KU BAA.

A detailed listing of the changes in generation assumptions within the LG&E/KU BAA throughout the ten (10) year planning horizon, including the year(s) in which they occur, is provided in Table A5.3 below. Furthermore, supplemental information regarding noteworthy generation expansion and retirements/decertifications included in the 2024 series set of SERTP power flow models is provided below while Table A5.4 provides a listing of generation assumptions based upon long-term, firm point-to-point commitments. The capacity (MW) values shown for each year reflect summer peak conditions. Table A5.5 provides a listing of all generators modeled in the 2024 Version 3 Summer Peak power flow model.

Table A5.3: Changes in Generation Assumptions Based Upon LSEs – LG&E/KU BAA

SITE	FUEL TYPE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
GI-2021-007	Solar	0	120	120	120	120	120	120	120	120	120

Table A5.4: Generation Assumptions Based Upon Expected Long-term, Firm Point-to-Point Commitments – LG&E/KU BAA

SITE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
TRIMBLE COUNTY	324	324	324	324	324	324	324	324	324	324

Table A5.5: Generating Units Modeled in the 2024 Version 3 Summer Peak Power flow Model – LG&E/KU BAA

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Brown	324002	1BROWN 3 24.000	3	Coal	455	Coal	455
Brown	324003	1BROWN 5 13.800	5	Gas	131	Gas	131
Brown	324004	1BROWN 6 18.000	6	Gas	147	Gas	147
Brown	324005	1BROWN 7 18.000	7	Gas	147	Gas	147
Brown	324006	1BROWN 8 13.800	8	Gas	122	Gas	122
Brown	324007	1BROWN 9 13.800	9	Gas	122	Gas	122
Brown	324008	1BROWN 10 13.800	10	Gas	122	Gas	122
Brown	324009	1BROWN 11 13.800	11	Gas	122	Gas	122
Dix Dam	324014	1DIX DAM 1 13.200	1	Hydro	11.2	Hydro	11.2
Dix Dam	324015	1DIX DAM 2 13.200	2	Hydro	11.2	Hydro	11.2

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Dix Dam	324016	1DIX DAM 3 13.200	3	Hydro	11.2	Hydro	11.2
Ghent	324017	1GHENT 1 18.000	1	Coal	520	Coal	520
Ghent	324018	1GHENT 2 22.000	2	Coal	520	Coal	520
Ghent	324019	1GHENT 3 22.000	3	Coal	530	Coal	530
Ghent	324020	1GHENT 4 22.000	4	Coal	525	Coal	525
Haefling	324023	1HAEFLING 13.800	1	Gas	12	Gas	12
Haefling	324023	1HAEFLING 13.800	2	Gas	12	Gas	12
Mill Creek	324024	1MILL CRK 1 22.000	1	Coal	330	Coal	330
Mill Creek	324025	1MILL CRK 2 22.000	2	Coal	330	Coal	330
Mill Creek	324026	1MILL CRK 3 22.000	3	Coal	422	Coal	422
Mill Creek	324027	1MILL CRK 4 22.000	4	Coal	517	Coal	517
Paddys Run	324031	1PADDY RN 1316.000	13	Gas	148	Gas	148
Trimble County	324034	1TRIM CO 1 22.000	1	Coal	530	Coal	530
Trimble County	324035	1TRIM CO 2 24.000	2	Coal	781	Coal	781
Trimble County	324036	1TRIM CO 5 18.000	5	Gas	160	Gas	160
Trimble County	324037	1TRIM CO 6 18.000	6	Gas	160	Gas	160
Trimble County	324038	1TRIM CO 7 18.000	7	Gas	160	Gas	160
Trimble County	324039	1TRIM CO 8 18.000	8	Gas	160	Gas	160
Trimble County	324040	1TRIM CO 9 18.000	9	Gas	160	Gas	160
Trimble County	324041	1TRIM CO 10 18.000	10	Gas	160	Gas	160
Buckner	324044	1BLUEGRASS 118.000	1	Gas	166	Gas	166
Buckner	324045	1BLUEGRASS 218.000	2	Gas	166	Gas	166
Buckner	324046	1BLUEGRASS 318.000	3	Gas	166	Gas	166
Lock	324052	1LOCK 7 2.4000	1	Hydro	2	Hydro	2
Ohio Falls	324234	1OHIO FALL 114.000	1	Hydro	9.375	Hydro	9.375
Ohio Falls	324234	1OHIO FALL 114.000	2	Hydro	9.375	Hydro	9.375
Ohio Falls	324234	1OHIO FALL 114.000	3	Hydro	9.375	Hydro	9.375
Ohio Falls	324234	1OHIO FALL 114.000	4	Hydro	9.375	Hydro	9.375
Ohio Falls	324235	1OHIO FALL 214.000	5	Hydro	9.375	Hydro	9.375
Ohio Falls	324235	1OHIO FALL 214.000	6	Hydro	9.375	Hydro	9.375

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Ohio Falls	324235	1OHIO FALL 214.000	7	Hydro	9.375	Hydro	9.375
Ohio Falls	324235	1OHIO FALL 214.000	8	Hydro	9.375	Hydro	9.375
Paris	324677	2PARIS 12 69.000	1	Gas	11.27	Gas	11.27
Paducah	324697	1KMPA PAD2 13.800	2	Gas	54	Gas	54
Paducah	324933	1KMPA PAD1 13.800	1	Gas	54	Gas	54
Brown	325012	1BROWN SOLAR13.200	S1	Solar	8	Solar	8
GI2017-002	325029	1G2017-002G10.6900	1	Solar	57.3	Solar	57.3
GI2017-002	325030	1G2017-002G20.6300	1	Solar	13.3	Solar	13.3
GI2019-002	325067	1GI2019-002G0.6000	1	Solar	0	Solar	105.5
G2019-004	325090	1G2019-004GS0.6450	1	Solar	200	Solar	200
Cane Run	325093	1CANERUN7CT118.000	71	Gas	219	Gas	219
Cane Run	325094	1CANERUN7CT218.000	72	Gas	219	Gas	219
Cane Run	325095	1CANERUN7ST 18.000	7S	Gas	237	Gas	237
GI2019-001	325120	1GI2019-001G0.6450	1	Gas	122.17	Gas	122.17
GI2019-008	325125	1GI2019-008G0.6000	1	Gas	101.1	Gas	101.1
GI2019-029	325130	1GI2019-029G0.6000	1	Gas	80	Gas	80
GI2019-003	325131	1GI2019-003G0.6000	1	Gas	100	Gas	100
GI2021-007	325143	1GI2021-007G0.6000	1	Gas	102	Gas	102
GI2020-001	325180	1GI2020-001G0.6000	1	Gas	54	Gas	54
GI2019-025	325185	1GI2019-025G0.6000	1	Gas	100	Gas	100
Paddys Run	326515	1PADDY RN 1214.000	12	Gas	23	Gas	23
EKPC Office	326541	2EKPC OFFICE69.000	P1	Gas	8.5	Gas	8.5

XI. Appendix 6: Southern BAA

The following information provides a more granular overview of the Southern BAA input assumptions and transmission expansion plan that are incorporated in the development of the SERTP regional transmission plan.

Table A6.1: 2024 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage (Southern BAA)

Southern BAA	100-120 kV	121-150 kV	151-199 kV	200-299 kV	300-399 kV	400-550 kV
Transmission lines – New (Circuit Mi.)	122.6	0.0	0.0	720.2	0.0	542.8
Transmission Lines – Uprates[1] (Circuit Mi.)	1037.1	0.0	0.0	366.9	0.0	0.0
Transformers[2] – New	0	0	0	10	0	14
Transformers[2] – Replacements	0	0	0	2	0	0
Power Flow Control Devices	0	0	0	2	0	0
Static Compensators	0	0	0	2	0	0

1 A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line.

2 The voltages shown represent the operating voltages on the high side terminals of the transformer.

Table A6.2: Interface commitments[1] modeled in the SERTP Summer Peak models – Southern BAA

To	2026	2029	2034
Duke Carolinas	0	0	0
DESC	0	0	0
SCPSA	200	717	717
TVA	-43	-41	-40
SEPA	-625	-625	-625
MISO	-179	-231	-330
FRCC	475	380	177

1 A positive number represents a net export from the Southern BAA.

A detailed listing of the changes in generation assumptions within the Southern BAA throughout the ten (10) year planning horizon, including the year(s) in which they occur, is provided in Tables A7.3 through A7.6 below. Furthermore, supplemental information regarding noteworthy generation expansion and retirements/decertifications included in the 2024 series set of SERTP power flow models is provided below, while Table A7.7 provides a listing of generation assumptions based upon long-term, firm point-to-point commitments. The capacity (MW) values shown for each year reflect summer peak conditions. Table A7.8 provides a listing of all generators modeled in the 2024 Version 3 Summer Peak power flow model.

Table A6.3: Changes in Generation Assumptions Based Upon LSEs – Southern Company

SITE	FUEL TYPE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
YATES 8, 9 & 10	GAS	--	--	1224	1224	1224	1224	1224	1224	1224	1224
LINDSAY HILL[1]	GAS	--	--	--	--	850	850	850	850	850	850
EAST ATMORE SOLAR	SOLAR	80	80	80	80	80	80	80	80	80	80
FOLEY SOLAR	SOLAR	80	80	80	80	80	80	80	80	80	80
NOTCH 4&5	SOLAR	--	160	160	160	160	160	160	160	160	160
SATURN SOLAR 1&2	SOLAR	--	--	160	160	160	160	160	160	160	160
SR METTER	SOLAR	--	80	80	80	80	80	80	80	80	80
WALKER SPRINGS I&II SOLAR	SOLAR	160	160	160	160	160	160	160	160	160	160
SANDERSVILLE SOLAR	SOLAR	--	--	--	50	50	50	50	50	50	50
DRAWHORN SOLAR	SOLAR	--	--	--	80	80	80	80	80	80	80
CLEARVIEW SOLAR	SOLAR	--	--	--	200	200	200	200	200	200	200
OAKMAN SOLAR 1&2	SOLAR	--	--	--	--	160	160	160	160	160	160
STEAMROLLER SOLAR	SOLAR	--	--	--	--	150	150	150	150	150	150
SHUBUTA SOLAR	SOLAR	--	--	--	--	156	156	156	156	156	156
GOODSPRINGS BESS	BESS	--	--	--	150	150	150	150	150	150	150
HAMMOND BESS	BESS	--	--	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
MCGRAU FORD BESS	BESS	--	265	530	530	530	530	530	530	530	530

[1] Third-party delivery service ending, transitioning generation to a Designated Network Resource.

Table A6.4: Changes in Generation Assumptions Based Upon LSEs – GTC

SITE	FUEL TYPE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
SR BACON	SOLAR	--	100	200	300	300	300	300	300	300	300
SR ROBBINS	SOLAR	--	--	175	250	250	250	250	250	250	250
SR ROCHELLE	SOLAR	--	--	90	140	140	140	140	140	140	140
SR Toombs	SOLAR	250	250	250	250	250	250	250	250	250	250
Big Smarr 1 & 2	Gas	--	--	--	--	--	1200	1200	1200	1200	1200
Talbot 7	Gas	--	--	--	--	250	250	250	250	250	250

Table A6.5: Changes in Generation Assumptions Based Upon LSEs – MEAG

SITE	FUEL TYPE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
None											

Table A6.6: Changes in Generation Assumptions Based Upon LSEs – Dalton

SITE	FUEL TYPE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
None											

Table A6.7: Changes in Generation Assumptions Based Upon LSEs – PowerSouth

SITE	FUEL TYPE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Fountain	Solar	75	75	75	75	75	75	75	75	75	75
Walker Springs III	Solar	--	80	80	80	80	80	80	80	80	80

*Table A6.*8: Generation Assumptions Based Upon Expected Long-term, Firm Point-to-Point Commitments – Southern Company

SITE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
DAHLBERG	44	44	44	44	44	44	44	44	44	44
Daniel	100	100	100	100	100	100	100	100	100	100
Harris	71	71	71	71	71	71	71	71	71	71
HILLABEE	210	210	210	210	210	210	210	210	210	210
Lindsay Hill[1]	220	220	220	220	0	--	--	--	--	--

SITE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Miller[2]	1400	1500	1233	1500	1500	1500	1500	1500	1500	1500
Sandersville	--	--	267	--	292	292	292	292	292	292
Scherer	210	210	210	210	0	--	--	--	--	--
Vogtle	206	206	206	206	206	206	206	206	206	206

[1] Third-party delivery service ending, transitioning generation to a Designated Network Resource.
[2] Third-party delivery service, sourcing from a Designated Network Resource, will likely require a redirect to new source.

*Table A*6.9: Generating Units Modeled in the 2024 Version 3 Summer Peak Power flow Model – Southern BAA

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Addison	383901	ADDISON 1 18.000	1	Gas	148.5	Gas	148.5
Addison	383902	ADDISON 2 18.000	2	Gas	149	Gas	0
Addison	383903	ADDISON 3 18.000	3	Gas	148.5	Gas	148.5
Addison	383904	ADDISON 4 18.000	4	Gas	145.9	Gas	145.9
Albany Green Energy	383480	ALB GRN NRG 13.800	1	Biomass	49.5	Biomass	49.5
Allatoona Dam	383506	ALLA DAM 13.800	1	Hydro	72	Hydro	72
Alligator Solar	383313	ALIGATOR PV 34.500	S1	Solar	80	Solar	80
AMEA Sylacauga	386036	AMEA CT1 13.800	1	Gas	47.5	Gas	47.5
AMEA Sylacauga	386037	AMEA CT2 13.800	2	Gas	47.5	Gas	47.5
Americus Battery	383460	AMER BESS 34.500	B1	Battery	0	Battery	0
Americus Solar	383461	AMERICUS 1 34.500	S1	Solar	0	Solar	0
Americus Solar	383462	AMERICUS 2 34.500	S2	Solar	0	Solar	0
Americus Solar	383463	AMERICUS 3 34.500	S3	Solar	0	Solar	0
Anniston Army Solar	386035	ANAD SLR 115.00	S1	Solar	11	Solar	11
Arlington Solar	383434	SR ARLINGTN 34.500	S1	Solar	123	Solar	123
Bankhead Dam	384357	BANK GEN 13.800	1	Hydro	52	Hydro	52
Barry	386471	BARRY 1 18.000	1	Gas	80	Gas	80
Barry	386472	BARRY 2 18.000	2	Gas	80	Gas	80
Barry	386474	BARRY 4 22.000	4	Gas	368	Gas	368

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Barry	386475	BARRY 5 26.000	5	Coal	785	Coal	785
Barry	386476	BARRY 6ST 18.000	6	Gas	206.6	Gas	206.6
Barry	386477	BARRY 6A 18.000	6A	Gas	185.6	Gas	185.6
Barry	386478	BARRY 6B 18.000	6B	Gas	186	Gas	186
Barry	386479	BARRY 7ST 18.000	7	Gas	204.7	Gas	204.7
Barry	386480	BARRY 7A 18.000	7A	Gas	183.6	Gas	183.6
Barry	386481	BARRY 7B 18.000	7B	Gas	187.9	Gas	187.9
Barry	386482	BARRY 8ST 21.000	8	Gas	287.7	Gas	302.1
Barry	386483	BARRY 8A 19.000	8A	Gas	399	Gas	382.94
Bartletts Ferry Dam	383514	BARTLFY1 12.000	1	Hydro	15.2	Hydro	15.2
Bartletts Ferry Dam	383515	BARTLFY2 12.000	2	Hydro	15.2	Hydro	15.2
Bartletts Ferry Dam	383516	BARTLFY3 12.000	3	Hydro	15.2	Hydro	15.2
Bartletts Ferry Dam	383517	BARTLFY4 6.9000	4	Hydro	20.2	Hydro	20.2
Bartletts Ferry Dam	383518	BARTLFY6 13.800	5	Hydro	54.4	Hydro	54.4
Bartletts Ferry Dam	383518	BARTLFY6 13.800	6	Hydro	54.4	Hydro	54.4
Big Smarr	383723	SMARR 1ST 18.000	1	Gas	0	Gas	196.9
Big Smarr	383724	SMARR 1A 18.000	1A	Gas	0	Gas	403.1
Big Smarr	383726	SMARR 2ST 18.000	2	Gas	0	Gas	196.9
Big Smarr	383727	SMARR 2A 18.000	2A	Gas	0	Gas	403.1
Bird Dog Solar	383455	BIRD DOG PV 34.500	S1	Solar	40	Solar	40
Black Bear Solar	386031	BLK BR SLR 34.500	S1	Solar	100	Solar	100
Black Prairie Solar & Storage[1]	386013	BLKPRAIRSLR 34.500	S	Solar	0	Solar	0
Black Prairie Solar & Storage[1]	386013	BLKPRAIRSLR 34.500	B1	Battery	0	Battery	0
Blackwater Solar	383466	BLCKWTR SLR 34.500	S1	Solar	80	Solar	80
Bouldin Dam	386581	BOULD1GN 13.800	1	Hydro	75.7	Hydro	75.7
Bouldin Dam	386582	BOULD2GN 13.800	2	Hydro	75.3	Hydro	75.3
Bouldin Dam	386583	BOULD3GN 13.800	3	Hydro	75.3	Hydro	75.3

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Bowen	383841	BOWEN 1 25.000	1	Coal	718	Coal	718
Bowen	383842	BOWEN 2 25.000	2	Coal	722	Coal	722
Bowen	383843	BOWEN 3 18.000	3	Coal	888.5	Coal	888.5
Bowen	383844	BOWEN 4 18.000	4	Coal	890.5	Coal	890.5
Brenneman Solar[1]	383330	BRNEMEN SLR 34.500	S1	Solar	0	Solar	0
Buford Dam 1	383509	BUF DAM 1+3 13.800	1	Hydro	60.1	Hydro	60.1
Buford Dam 2	383510	BUF DAM 2 13.800	2	Hydro	60.1	Hydro	60.1
Buford Dam 3	383509	BUF DAM 1+3 13.800	3	Hydro	6.8	Hydro	6.8
Bulldog Solar	383456	BULLDOG PV 34.500	S1	Solar	80	Solar	80
Bulter Solar	383406	BUTLER SLR 34.500	S1	Solar	100	Solar	100
Calhoun	383680	CALHOUN GEN 13.800	4	Gas	20	Gas	20
Calhoun	386061	CALHOUNCT1 18.000	1	Gas	161.4	Gas	161.4
Calhoun	386062	CALHOUNCT2 18.000	2	Gas	161.4	Gas	161.4
Calhoun	386063	CALHOUNCT3 18.000	3	Gas	161.4	Gas	161.4
Calhoun	386064	CALHOUNCT4 18.000	4	Gas	161.4	Gas	161.4
Camilla Solar	383425	CAMILLA SLR 230.00	S1	Solar	16	Solar	16
Cane Creek Solar	386842	CANE CK SL 34.500	S1	Solar	78.5	Solar	78.5
Carters Dam	383502	CARTERSDAM1 13.800	1	Hydro	148	Hydro	148
Carters Dam	383503	CARTERSDAM2 13.800	2	Hydro	148	Hydro	148
Carters Dam	383504	CARTERSDAM3 13.800	3	Pumped Hydro	148	Pumped Hydro	148
Carters Dam	383505	CARTERSDAM4 13.800	4	Pumped Hydro	148	Pumped Hydro	148
Cedar Springs Solar	383474	SR CEDAR SP 34.500	S1	Solar	70	Solar	70
Central Alabama	386427	CENTAL 2ST 22.000	2	Gas	404	Gas	404
Central Alabama	386428	CENTAL 2A 18.000	2A	Gas	182.33	Gas	182.33
Central Alabama	386429	CENTAL 2B 18.000	2B	Gas	182.33	Gas	182.33
Central Alabama	386430	CENTAL 2C 18.000	2C	Gas	182.34	Gas	182.34

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Chattahoochee Energy	383632	CHAT EN 1ST 16.000	1	Gas	164.5	Gas	164.5
Chattahoochee Energy	383633	CHAT EN 1A 16.000	1A	Gas	160	Gas	160
Chattahoochee Energy	383634	CHAT EN 1B 16.000	1B	Gas	160	Gas	160
Chevron	386831	CHEVRON1 13.200	1	Gas	15	Gas	15
Chevron	386832	CHEVRON2 13.200	2	Gas	15	Gas	15
Chevron	386833	CHEVRON3 13.200	3	Gas	16	Gas	16
Chevron	386834	CHEVRON4 13.200	4	Gas	16	Gas	16
Chevron	386835	CHEVRON5 13.800	5	Gas	70	Gas	70
Clay Solar	383438	SR CLAY 34.500	S1	Solar	106	Solar	106
Clearview Solar	386006	CLEARVW SLR 34.500	S1	Solar	0	Solar	200
Cool Springs Solar	383452	COOL SPR PV 34.500	S1	Solar	213	Solar	213
Crisp Co. Dam	383541	CRISPCO1 6.6000	1	Hydro	20	Hydro	20
Dahlberg	383661	DAHLBERG 1 13.800	1	Gas	74.8	Gas	74.8
Dahlberg	383662	DAHLBERG 2 13.800	2	Gas	74	Gas	74
Dahlberg	383663	DAHLBERG 3 13.800	3	Gas	74.7	Gas	74.7
Dahlberg	383664	DAHLBERG 4 13.800	4	Gas	73.5	Gas	73.5
Dahlberg	383665	DAHLBERG 5 13.800	5	Gas	74.7	Gas	74.7
Dahlberg	383666	DAHLBERG 6 13.800	6	Gas	74.9	Gas	74.9
Dahlberg	383667	DAHLBERG 7 13.800	7	Gas	75	Gas	75
Dahlberg	383668	DAHLBERG 8 13.800	8	Gas	74	Gas	74
Dahlberg	383669	DAHLBERG 9 13.800	9	Gas	74.8	Gas	74.8
Dahlberg	383670	DAHLBERG 10 13.800	10	Gas	75.2	Gas	75.2
Dale County Solar[1]	386029	DALE CTY SL 34.500	S1	Solar	0	Solar	0
Daniel	386872	DANIEL 2 18.000	2	Coal	410	Coal	410
Daniel	386873	DANIEL 3ST 18.000	3	Gas	198	Gas	198
Daniel	386874	DANIEL 3A 18.000	3A	Gas	190.2	Gas	190.2
Daniel	386875	DANIEL 3B 18.000	3B	Gas	190.2	Gas	190.2

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Daniel	386876	DANIEL 4ST 18.000	4	Gas	204.6	Gas	204.6
Daniel	386877	DANIEL 4A 18.000	4A	Gas	198.4	Gas	198.4
Daniel	386878	DANIEL 4B 18.000	4B	Gas	198.4	Gas	198.4
Decatur County Industrial	381031	DEC CO IND 115.00	S1	Solar	19	Solar	19
Decatur Solar	383303	DECATUR SLR 34.500	S1	Solar	200	Solar	200
Decatur Solar	383401	DEC PKY SLR 34.500	S1	Solar	79.9	Solar	79.9
Desoto Solar	383475	SR DESOTO 34.500	S1	Solar	263	Solar	263
Dodge Solar[1]	383328	DODGE SLR 34.500	S1	Solar	0	Solar	0
Dothan Solar[1]	386014	DOTHAN SLR 34.500	S1	Solar	0	Solar	0
Dougherty Solar	383433	DOUGH PV 34.500	S1	Solar	130	Solar	130
Doyle	383871	DOYLE 1 14.400	1	Gas	56	Gas	56
Doyle	383872	DOYLE 2 13.800	2	Gas	57	Gas	57
Doyle	383873	DOYLE 3 13.800	3	Gas	57	Gas	57
Doyle	383874	DOYLE 4 13.800	4	Gas	71.8	Gas	71.8
Doyle	383875	DOYLE 5 13.800	5	Gas	71.7	Gas	71.7
Drawhorn Solar	383323	DRAWHRNLOW 34.500	S1	Solar	0	Solar	80
Dublin Biomass 1	383787	DUBLIN B1 12.500	1	Biomass	29	Biomass	29
East Atmore Solar	386002	ATMORESOLAR 34.500	S1	Solar	80	Solar	80
East Berlin	381888	E BERLIN 230.00	S1	Solar	20	Solar	20
Effingham	383867	EFFHAM 1ST 18.000	1	Gas	199	Gas	199
Effingham	383868	EFFHAM 1A 18.000	1A	Gas	173	Gas	173
Effingham	383869	EFFHAM 1B 18.000	1B	Gas	173	Gas	173
Fall Line Solar	383408	FALL LN SLR 115.00	S1	Solar	20	Solar	20
Farley	386461	FARLEY 1 22.000	1	Nuclear	919.6	Nuclear	919.6
Farley	386462	FARLEY 2 22.000	2	Nuclear	907.1	Nuclear	907.1
Flint Biomass	383786	FLINT BIO 13.800	1	Biomass	27	Biomass	27
Flint Biomass	383786	FLINT BIO 13.800	2	Biomass	29.8	Biomass	29.8

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Flint River Dam	383538	FLINT HYDRO 2.3000	1	Hydro	6.4	Hydro	6.4
Foley Solar	386003	FOLEYSOLAR 34.500	S1	Solar	80	Solar	80
Fort Benning Solar	383411	BENNING SLR 115.00	S1	Solar	30	Solar	30
Fort Rucker Solar	386034	RUCKER SLR 115.00	S1	Solar	10.6	Solar	10.6
Fort Valley Solar	382323	FT VALLEY 115.00	S1	Solar	10.7	Solar	10.7
Fountain Solar	317764	2FOUNTAIN_PV0.6300	S1	Solar	76.2	Solar	76.2
Franklin	383671	FRANKLIN1ST 18.000	1	Gas	221	Gas	221
Franklin	383672	FRANKLIN 1A 18.000	1A	Gas	187	Gas	187
Franklin	383673	FRANKLIN 1B 18.000	1B	Gas	187	Gas	187
Franklin	383674	FRANKLIN2ST 21.000	2	Gas	288.4	Gas	288.4
Franklin	383675	FRANKLIN 2A 18.000	2A	Gas	187	Gas	187
Franklin	383676	FRANKLIN 2B 18.000	2B	Gas	187	Gas	187
Franklin	383677	FRANKLIN3ST 21.000	3	Gas	291.7	Gas	291.7
Franklin	383678	FRANKLIN 3A 18.000	3A	Gas	183.3	Gas	183.3
Franklin	383679	FRANKLIN 3B 18.000	3B	Gas	183.3	Gas	183.3
Gantt Hydro	317134	2GANTT GSU 2.3000	H1	Hydro	2.6	Hydro	2.6
Gaston	386411	GASTON 1 15.000	1	Gas	127	Gas	127
Gaston	386411	GASTON 1 15.000	1L	Gas	127	Gas	127
Gaston	386412	GASTON 2 15.000	2	Gas	128	Gas	128
Gaston	386412	GASTON 2 15.000	2L	Gas	128	Gas	128
Gaston	386413	GASTON 3 15.000	3	Gas	127	Gas	127
Gaston	386413	GASTON 3 15.000	3L	Gas	102	Gas	102
Gaston	386414	GASTON 4 15.000	4	Gas	128	Gas	128
Gaston	386414	GASTON 4 15.000	4L	Gas	102.6	Gas	102.6
Gaston	386415	GASTON 5 18.000	5	Coal	894.5	Gas	949.5
Gaston	386416	GASTON A 13.800	A	Gas	16	Gas	16
George Dam 1	383551	GEORGE 1 13.800	1	Hydro	40.5	Hydro	40.5

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
George Dam 2	383552	GEORGE 2 13.800	2	Hydro	40.5	Hydro	40.5
George Dam 3	383553	GEORGE 3 13.800	3	Hydro	40.5	Hydro	40.5
George Dam 4	383554	GEORGE 4 13.800	4	Hydro	40.5	Hydro	40.5
Goat Rock Dam	383520	GOATROCK 12.000	3	Hydro	5	Hydro	5
Goat Rock Dam	383520	GOATROCK 12.000	4	Hydro	5	Hydro	5
Goat Rock Dam	383520	GOATROCK 12.000	7	Hydro	9.3	Hydro	9.3
Goat Rock Dam	383520	GOATROCK 12.000	8	Hydro	9.3	Hydro	9.3
Goat Rock Dam	383521	GOATRK 56 4.2000	5	Hydro	5	Hydro	5
Goat Rock Dam	383521	GOATRK 56 4.2000	6	Hydro	5	Hydro	5
Goodsprings Battery	386026	GOODSP BESS 34.500	B1	Battery	0	Battery	150
Gordon Solar	383412	GORDON SLR 34.500	S1	Solar	30	Solar	30
Greene County	386441	GREENE CO 1 20.000	1	Gas	257.8	Gas	257.8
Greene County	386442	GREENE CO 2 20.000	2	Gas	258.3	Gas	258.3
Greene County	386450	GREENCOA 13.800	A	Gas	84	Gas	84
Greene County	386451	GREENCOB 13.800	B	Gas	82	Gas	82
Greene County	386452	GREENCOC 13.800	C	Gas	81	Gas	81
Greene County	386453	GREENCOD 13.800	D	Gas	82	Gas	82
Greene County	386454	GREENCOE 13.800	E	Gas	81	Gas	81
Greene County	386455	GREENCOF 13.800	F	Gas	80	Gas	80
Greene County	386456	GREENCOG 13.800	G	Gas	83	Gas	83
Greene County	386457	GREENCOH 13.800	H	Gas	82	Gas	82
Greene County	386458	GREENCOI 13.800	I	Gas	85	Gas	85
GRP Franklin Bio	383481	GRP FRK BIO 13.800	1	Biomass	58	Biomass	58
GRP Madison Bio	383486	GRP MAD BIO 13.800	1	Biomass	58	Biomass	58
Hammond BESS	383325	HAMBESSLOW 34.500	B1	Battery	0	Battery	57.5
Harris	386491	HARRIS 1ST 21.000	1	Gas	294	Gas	294
Harris	386492	HARRIS 1A 18.000	1A	Gas	174	Gas	174

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Harris	386493	HARRIS 1B 18.000	1B	Gas	174	Gas	174
Harris	386494	HARRIS 2ST 21.000	2	Gas	286.6	Gas	286.6
Harris	386495	HARRIS 2A 18.000	2A	Gas	185	Gas	185
Harris	386496	HARRIS 2B 18.000	2B	Gas	185	Gas	185
Harris Dam	386531	HARISGEN 13.800	1	Hydro	62	Hydro	62
Harris Dam	386531	HARISGEN 13.800	2	Hydro	62	Hydro	62
Hatch	383811	HATCH 1 24.000	1	Nuclear	880.2	Nuclear	880.2
Hatch	383812	HATCH 2 24.000	2	Nuclear	889.7	Nuclear	889.7
Hattiesburg Solar	386888	HATTIESB SL 34.500	S1	Solar	50.8	Solar	50.8
Hawk Road	383927	HAWK RD 1 18.000	1	Gas	153.4	Gas	153.4
Hawk Road	383928	HAWK RD 2 18.000	2	Gas	151	Gas	151
Hawk Road	383929	HAWK RD 3 18.000	3	Gas	153	Gas	153
Hazelhurst Solar 1	383428	SR HAZLE 1 115.00	S1	Solar	20	Solar	20
Hazelhurst Solar 3	383429	SR HAZLE 3 34.500	S1	Solar	40.8	Solar	40.8
Hazlehurst Solar 2	383427	SR HAZLE 2 34.500	S1	Solar	52	Solar	52
Henry Dam	386501	HENRYGEN 11.500	1	Hydro	62	Hydro	62
Hickory Solar & Storage[1]	383329	HICKORY SLR 34.500	B1	Battery	0	Battery	0
Hickory Solar & Storage[1]	383329	HICKORY SLR 34.500	S1	Solar	0	Solar	0
Hillabee	386437	HILL ST1 23.000	1	Gas	94.4	Gas	94.4
Hillabee	386438	HILLCT1A 16.000	1A	Gas	78.8	Gas	78.8
Hillabee	386439	HILLCT1B 16.000	1B	Gas	78.8	Gas	78.8
Hobnail Solar	383468	HOBNAIL SLR 34.500	S1	Solar	70	Solar	70
Hog Bayou	386089	HOGBAYOU 1 13.800	1	Gas	74	Gas	74
Hog Bayou	386090	HOGBAYOU1A 18.000	1A	Gas	150	Gas	150
Holt Dam	384355	HOLT GEN 13.800	1	Hydro	45	Hydro	45
Hope Hull Solar[1]	386011	HOPEHUL SLR 34.500	S1	Solar	0	Solar	0
Jeffersonville[1]	380813	JEFFERSONVL 115.00	S1	Solar	20	Solar	20

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Jordan Dam	386561	JORD1GEN 12.000	1	Hydro	28	Hydro	28
Jordan Dam	386561	JORD1GEN 12.000	2	Hydro	28	Hydro	28
Jordan Dam	386563	JORD3GEN 12.000	3	Hydro	28	Hydro	28
Jordan Dam	386563	JORD3GEN 12.000	4	Hydro	28	Hydro	28
Kingsbay Solar	383414	KNGSBAY SLR 34.500	B1	Battery	0	Battery	0
Kingston Solar[1]	383332	KINGSTN SLR 34.500	S1	Solar	0	Solar	0
Lancaster Solar	383435	LANCSTR SLR 34.500	S1	Solar	80	Solar	80
Lauderdale East Solar	386889	LAUDR E SLR 34.500	S1	Solar	55	Solar	55
Laurens I Solar[1]	383326	LRENS 1 SLR 34.500	S1	Solar	0	Solar	0
Lay Dam	386541	LAY1-3GN 11.500	1	Hydro	87	Hydro	87
Lay Dam	386544	LAY4-6GN 11.500	4	Hydro	87	Hydro	87
LG&E Monroe	383862	LGEMONROE1 16.000	1	Gas	153	Gas	153
LG&E Monroe	383863	LGEMONROE2 16.000	2	Gas	156	Gas	156
LG&E Monroe	383864	LGEMONROE3 16.000	3	Gas	156	Gas	156
Lindsay Hill	386423	LHILL 1ST 22.000	1	Gas	93.4	Gas	361
Lindsay Hill	386424	LHILL 1A 18.000	1A	Gas	42.2	Gas	163
Lindsay Hill	386425	LHILL 1B 18.000	1B	Gas	42.2	Gas	163
Lindsay Hill	386426	LHILL 1C 18.000	1C	Gas	42.2	Gas	163
Liveoak Solar	383403	LIVEOAK SLR 34.500	S1	Solar	51	Solar	51
Lloyd Shoals Dam	383501	LLOYD SHL 2.3000	1	Hydro	19.6	Hydro	19.6
Lowman EC 1	317712	2LOWMANEC1 19.000	1	Gas	384	Gas	384
Lowman EC 2	317713	2LOWMANEC2 21.000	2	Gas	257	Gas	257
Lowndes County	386083	LOWDN CO1 13.800	1	Gas	11.9	Gas	11.9
Lowndes County	386084	LOWDN CO2 13.800	1A	Gas	72.6	Gas	72.6
Lumpkin Solar	383470	SR LUMPKIN 34.500	S1	Solar	100	Solar	100
Martin Dam	386521	LMARTGEN 13.800	1	Hydro	120	Hydro	120
Martin Dam	386551	MART1GEN 12.000	1	Hydro	45.9	Hydro	45.9

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Martin Dam	386552	MART2GEN 12.000	2	Hydro	37.7	Hydro	37.7
Martin Dam	386553	MART3GEN 12.000	3	Hydro	37.7	Hydro	37.7
Martin Dam	386554	MART4GEN 12.000	4	Hydro	57.1	Hydro	57.1
McDonough	383600	MCDON 3B 13.800	3B	Gas	40	Gas	40
McDonough	383878	MCDON 4ST 18.000	4	Gas	375	Gas	375
McDonough	383879	MCDON 4A 21.000	4A	Gas	246	Gas	246
McDonough	383880	MCDON 4B 21.000	4B	Gas	246	Gas	246
McDonough	383883	MCDON 6ST 18.000	6	Gas	374	Gas	374
McDonough	383884	MCDON 6A 21.000	6A	Gas	242	Gas	242
McDonough	383885	MCDON 6B 21.000	6B	Gas	242	Gas	242
McDonough	383886	MCDON 3A 13.800	3A	Gas	40	Gas	40
McDonough	383961	MCDON 5ST 18.000	5	Gas	374	Gas	374
McDonough	383962	MCDON 5A 21.000	5A	Gas	242	Gas	242
McDonough	383963	MCDON 5B 21.000	5B	Gas	242	Gas	242
McGrau Ford Battery	383399	MCGRAU BESS 34.500	B1	Battery	265	Battery	530
McIntosh	389122	MCINCT-1 13.800	1	Gas	82.2	Gas	82.2
McIntosh	389123	MCINCT-2 13.800	2	Gas	82.2	Gas	82.2
McIntosh	389124	MCINCT-3 13.800	3	Gas	82.2	Gas	82.2
McIntosh	389125	MCINCT-4 13.800	4	Gas	82.2	Gas	82.2
McIntosh	389126	MCINCT-5 13.800	5	Gas	82.2	Gas	82.2
McIntosh	389127	MCINCT-6 13.800	6	Gas	82.2	Gas	82.2
McIntosh	389128	MCINCT-7 13.800	7	Gas	82.2	Gas	82.2
McIntosh	389129	MCINCT-8 13.800	8	Gas	82.2	Gas	82.2
McIntosh	389131	MCINT 10ST 21.000	10	Gas	283.4	Gas	283.4
McIntosh	389132	MCINT 10A 21.000	1A	Gas	192.3	Gas	192.3
McIntosh	389133	MCINT 10B 21.000	1B	Gas	192.3	Gas	192.3
McIntosh	389134	MCINT 11ST 21.000	11	Gas	283	Gas	283

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
McIntosh	389135	MCINT 11A 21.000	1A	Gas	192	Gas	192
McIntosh	389136	MCINT 11B 21.000	1B	Gas	192	Gas	192
McIntosh 1	317721	2MCNTSH1G 13.800	1	Gas	110	Gas	110
McIntosh 2	317722	2MCNTSH2G 13.800	2	Gas	114	Gas	114
McIntosh 3	317723	2MCNTSH3G 13.800	3	Gas	114	Gas	114
McIntosh 4	317754	2MCNTSH4G 16.500	4	Gas	172	Gas	172
McIntosh 5	317755	2MCNTSH5G 16.500	5	Gas	173	Gas	173
Mclb Solar	383415	2MCWLMS3G 13.800	S1	Solar	31	Solar	31
McManus	383821	2MCWLMS4G 13.800	4A	Gas	44.4	Gas	44.4
McManus	383822	2MCNTSH4G 16.500	4B	Gas	44.4	Gas	44.4
McManus	383823	2MCNTSH5G 16.500	4C	Gas	44.4	Gas	44.4
McManus	383824	MCMANUS 4D 13.800	4D	Gas	44.4	Gas	44.4
McManus	383825	MCMANUS 4E 13.800	4E	Gas	44.4	Gas	44.4
McManus	383826	MCMANUS 4F 13.800	4F	Gas	44.4	Gas	44.4
McManus	383833	MCMANUS 3A 13.800	3A	Gas	44.4	Gas	44.4
McManus	383834	MCMANUS 3B 13.800	3B	Gas	44.4	Gas	44.4
McManus	383835	MCMANUS 3C 13.800	3C	Gas	44.4	Gas	44.4
McWilliams 1	317731	2MCWLMS1G 4.1600	1	Gas	8	Gas	8
McWilliams 2	317732	2MCWLMS2G 4.1600	2	Gas	8	Gas	8
McWilliams 3	317733	2MCWLMS3G 13.800	3	Gas	17	Gas	17
McWilliams 4	317734	2MCWLMS4G 13.800	4	Gas	119	Gas	119
Metter Solar	383318	METTER SLR 34.500	S1	Solar	80	Solar	80
Mid Georgia	383711	MID GA 1ST 13.800	1	Gas	96	Gas	96
Mid Georgia	383712	MID GA 1A 13.800	1A	Gas	102	Gas	102
Mid Georgia	383713	MID GA 1B 13.800	1B	Gas	102	Gas	102
Miller	386401	MILLER 1 24.000	1	Coal	695	Coal	695
Miller	386402	MILLER 2 24.000	2	Coal	701	Coal	701

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Miller	386403	MILLER 3 24.000	3	Coal	701	Coal	701
Miller	386404	MILLER 4 24.000	4	Coal	712	Coal	712
Millers Ferry Dam	385402	MILERSFY1 13.800	1	Hydro	30	Hydro	30
Millers Ferry Dam	385403	MILERSFY2 13.800	2	Hydro	30	Hydro	30
Millers Ferry Dam	385404	MILERSFY3 13.800	3	Hydro	30	Hydro	30
Mitchell Dam	386574	MITC4GEN 6.6000	4	Hydro	19	Hydro	19
Mitchell Dam	386575	MITC5GEN 13.800	5	Hydro	48	Hydro	48
Mitchell Dam	386575	MITC5GEN 13.800	6	Hydro	48	Hydro	48
Mitchell Dam	386575	MITC5GEN 13.800	7	Hydro	48	Hydro	48
Monroe Power	383860	MONROEPWR 1 13.800	1	Gas	154.5	Gas	154.5
Monroe Power	383861	MONROEPWR 2 13.800	2	Gas	154.5	Gas	154.5
Montgomery Solar[1]	386015	MONTGY SLR 34.500	S1	Solar	0	Solar	0
Moody Air Force Solar	383417	MAFB SLR 34.500	S1	Solar	50	Solar	50
Moonshot Solar	386841	MOONSHOT SL 34.500	S1	Solar	78.5	Solar	78.5
Morgan Falls Dam	383500	MORGAN F 4.2000	1	Hydro	10.7	Hydro	10.7
Mossy Branch Battery	383400	MOSSY BESS 34.500	B1	Battery	65	Battery	65
MS Bainbridge	383890	MSBAINBR 13.800	1	Gas	80	Gas	80
Newton Solar[1]	386846	NEWTON SLR 34.500	S1	Solar	0	Solar	0
North Highlands Dam	383525	N HIGHLAND 12.000	1	Hydro	34.4	Hydro	34.4
Notch 4 Solar	386000	NOTCH4 34.500	S1	Solar	80	Solar	80
Notch 5 Solar	386001	NOTCH5 34.500	S1	Solar	80	Solar	80
Oakman Solar 1	386007	OAKMAN SLR1 34.500	S1	Solar	0	Solar	80
Oakman Solar 2	386008	OAKMAN SLR2 34.500	S1	Solar	0	Solar	80
Old Hayneville Solar	386096	OLDHAYSOLAR 34.500	S1	Solar	80	Solar	80
Old Midville Solar	383402	MIDVIL SLR 115.00	S1	Solar	20	Solar	20
Oliver Dam 1	383522	OLIVER 1 7.2000	1	Hydro	17.7	Hydro	17.7
Oliver Dam 2	383523	OLIVER 2 7.6000	2	Hydro	17.7	Hydro	17.7

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Oliver Dam 3	383524	OLIVER 3-4 7.6000	3	Hydro	17.7	Hydro	17.7
Oliver Dam 4	383524	OLIVER 3-4 7.6000	4	Hydro	6	Hydro	6
OPC Hartwell	383881	OPCHWE 1 18.000	1	Gas	153	Gas	153
OPC Hartwell	383882	OPCHWE 2 18.000	2	Gas	153	Gas	153
Origis Solar	386046	LAFAYTE SLR 34.500	S1	Solar	80	Solar	80
Origis Solar	386887	ORIGIS SLR 34.500	S1	Solar	52	Solar	52
Paw Solar	383407	PAW PAW SLR 230.00	S1	Solar	30	Solar	30
Perry Solar	383439	SR PERRY 34.500	S1	Solar	68	Solar	68
Piedmont	383777	PIEDMNT BIO 13.800	1	Biomass	55	Biomass	55
Pine Ridge	383497	PINE RIDGE 24.950	1	Biomass	7	Biomass	7
Pinewood Solar[1]	383341	PINEWD SLR 34.500	S1	Solar	0	Solar	0
Point A Hydro	317071	2_1POINTA_HY2.3000	H1	Hydro	8	Hydro	8
Quitman II Solar	383449	QUITMAN2 PV 34.500	S1	Solar	150	Solar	150
Quitman Solar	383444	QUITMAN1 PV 34.500	S1	Solar	150	Solar	150
Rabun Gap	383775	RABUN BIO 13.800	1	Biomass	18	Biomass	18
Ratcliffe	386891	RATCLF1ST_N 18.000	1	Gas	331.4	Gas	331.4
Ratcliffe	386892	RATCLF1A_N 18.000	1A	Gas	195.9	Gas	195.9
Ratcliffe	386893	RATCLF1B_N 18.000	1B	Gas	195.9	Gas	195.9
RF Henry Dam	385401	RF HENRY 13 13.800	1	Hydro	82	Hydro	82
Rice Creek Solar[1]	386010	RICECRK SLR 34.500	S1	Solar	0	Solar	0
Richland Creek	383498	RICHLD CK 4.2000	1	Biomass	11	Biomass	11
Rincon Solar	383422	RINCON SLR 34.500	S1	Solar	16	Solar	16
Robins AFB Solar	383416	RAFB SLR 34.500	S1	Solar	128	Solar	128
Robins Air Force Base	383741	RAFB CT A 13.800	A	Gas	80	Gas	80
Robins Air Force Base	383742	RAFB CT B 13.800	B	Gas	80	Gas	80
Rock House Solar[1]	383315	RK HSE SLR 34.500	S1	Solar	0	Solar	0
Rocky Mountain	383511	ROCKY MTN 1 20.000	1	Pumped Hydro	272.3	Pumped Hydro	272.3

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Rocky Mountain	383512	ROCKY MTN 2 20.000	2	Pumped Hydro	272.3	Pumped Hydro	272.3
Rocky Mountain	383513	ROCKY MTN 3 20.000	3	Pumped Hydro	272.3	Pumped Hydro	272.3
Rumble Road	383721	RMBL CT1 13.800	1	Gas	112	Gas	112
Rumble Road	383722	RMBL CT2 13.800	2	Gas	112	Gas	112
SA Solar[1]	383331	SA SOLAR 34.500	S1	Solar	0	Solar	0
Sandersville Solar	383322	SNDRSVLSLR 34.500	S1	Solar	0	Solar	50
Sandhills 2 Solar & Battery[1]	383340	SANDHL2 SLR 34.500	B1	Battery	0	Battery	0
Sandhills 2 Solar & Battery[1]	383340	SANDHL2 SLR 34.500	S1	Solar	0	Solar	0
Sandhills Solar	383409	SANDHLS SLR 34.500	S1	Solar	143	Solar	143
Saturn Solar 1	386004	SATURN SLR1 34.500	S1	Solar	0	Solar	80
Saturn Solar 2	386005	SATURN SLR2 34.500	S1	Solar	0	Solar	80
Scherer	383681	SCHERER 1 25.000	1	Coal	860	Coal	860
Scherer	383682	SCHERER 2 25.000	2	Coal	881.0001	Coal	807
Scherer	383683	SCHERER 3 25.000	3	Coal	881.0001	Coal	660.75
Sewell Creek	383851	SEWCRK 21 13.800	21	Gas	137	Gas	137
Sewell Creek	383852	SEWCRK 22 13.800	22	Gas	138	Gas	138
Sewell Creek	383853	SEWCRK 11 13.800	11	Gas	115.5	Gas	115.5
Sewell Creek	383854	SEWCRK 12 13.800	12	Gas	116.5	Gas	116.5
Shelby Solar[1]	386012	SHELBY SLR 34.500	S1	Solar	0	Solar	0
Shubuta Creek Solar	386845	SHBUTA SLR 34.500	S1	Solar	0	Solar	156
Simon	383798	SSFGEN 34.500	S1	Solar	30	Solar	30
Sinclair Dam 1	383548	SINCLAIR 1 6.9000	1	Hydro	19.3	Hydro	19.3
Sinclair Dam 2	383549	SINCLAIR 2 6.9000	2	Hydro	19.3	Hydro	19.3
Smith Dam	384142	SMITH GN 13.800	1	Hydro	82.5	Hydro	82.5
Smith Dam	384142	SMITH GN 13.800	2	Hydro	82.5	Hydro	82.5
Snipesville Solar I	383471	SR SNPSVL 1 34.500	S1	Solar	86	Solar	86

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Snipesville Solar II	383472	SR SNPSVL 2 34.500	S1	Solar	117.5	Solar	117.5
Snipesville Solar III	383473	SR SNPSVL 3 34.500	S1	Solar	107	Solar	107
Sonny Solar	383454	SONNY PV 34.500	S1	Solar	40	Solar	40
Southern Oak Solar (Camilla II)	383440	SO OAK PV 1 34.500	S1	Solar	160	Solar	160
Sowega	383791	BACNTN 1 13.800	1	Gas	32.7	Gas	32.7
Sowega	383792	BACNTN 2 13.800	2	Gas	32.7	Gas	32.7
Sowega	383802	BACNTN 3 13.800	3	Gas	32.6	Gas	32.6
Sowega	383803	BACNTN 4 13.800	4	Gas	32.7	Gas	32.7
Sowega	383804	BACNTN 5 13.800	5	Gas	32.7	Gas	32.7
Sowega	383805	BACNTN 6 13.800	6	Gas	32.6	Gas	32.6
Spring Branch	381493	SPRING BRN 115.00	S1	Solar	25	Solar	25
SR Ailey Solar	383476	SR AILEY PV 34.500	S1	Solar	80	Solar	80
SR Bacon	383320	SR BACON 34.500	S1	Solar	0	Solar	300
SR Robbins	383319	SR ROBBINS 34.500	S1	Solar	0	Solar	250
SR Rochelle	383324	SR ROCHLOW 34.500	S1	Solar	0	Solar	140
Stagecoach Solar	383424	STAGECH SLR 34.500	S1	Solar	80	Solar	80
Steamroller Solar	386844	STMRLR SLR 34.500	S1	Solar	0	Solar	150
Stwart Solar	383413	STEWART SLR 34.500	B1	Battery	13	Battery	13
Stwart Solar	383413	STEWART SLR 34.500	S1	Solar	13	Solar	13
Sweatt	386800	SWEATT A 13.800	A	Gas	32	Gas	32
T.A. Smith I	383604	TA SMITH 1S 18.000	1	Gas	289.8	Gas	289.8
T.A. Smith I	383605	TA SMITH 1A 18.000	1A	Gas	185	Gas	185
T.A. Smith I	383606	TA SMITH 1B 18.000	1B	Gas	183	Gas	183
T.A. Smith II	383607	TA SMITH 2S 18.000	2	Gas	290	Gas	290
T.A. Smith II	383608	TA SMITH 2A 18.000	2A	Gas	185	Gas	185
T.A. Smith II	383609	TA SMITH 2B 18.000	2B	Gas	183	Gas	183
Talbot County	383911	TALBOT 1 13.800	1	Gas	114.2	Gas	114.2

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Talbot County	383912	TALBOT 2 13.800	2	Gas	113	Gas	113
Talbot County	383913	TALBOT 3 13.800	3	Gas	110.3	Gas	110.3
Talbot County	383914	TALBOT 4 13.800	4	Gas	114.5	Gas	114.5
Talbot County	383915	TALBOT 5 13.800	5	Gas	113.7	Gas	113.7
Talbot County	383916	TALBOT 6 13.800	6	Gas	114	Gas	114
Talbot County	383917	TALBOT 7 18.000	7	Gas	0	Gas	250
Tallulah Falls Dam 1	383542	TALLULAH 1 6.6000	1	Hydro	11.4	Hydro	11.4
Tallulah Falls Dam 2	383543	TALLULAH 2 6.6000	2	Hydro	11.4	Hydro	11.4
Tallulah Falls Dam 3	383544	TALLULAH 3 6.6000	3	Hydro	11.4	Hydro	11.4
Tallulah Falls Dam 4	383545	TALLULAH 4 6.6000	4	Hydro	11.4	Hydro	11.4
Tallulah Falls Dam 5	383546	TALLULAH 5 6.6000	5	Hydro	11.4	Hydro	11.4
Tallulah Falls Dam 6	383547	TALLULAH 6 6.6000	6	Hydro	11.4	Hydro	11.4
Tanglewood Solar	383446	TANGLE SLR 34.500	S1	Solar	60	Solar	60
Tenaska - Heard County	383921	TENSKA GA 1 18.000	1	Gas	157.5	Gas	157.5
Tenaska - Heard County	383922	TENSKA GA 2 18.000	2	Gas	157.5	Gas	157.5
Tenaska - Heard County	383923	TENSKA GA 3 18.000	3	Gas	157.5	Gas	157.5
Tenaska - Heard County	383924	TENSKA GA 4 18.000	4	Gas	157.5	Gas	157.5
Tenaska - Heard County	383925	TENSKA GA 5 18.000	5	Gas	157.5	Gas	157.5
Tenaska - Heard County	383926	TENSKA GA 6 18.000	6	Gas	157.5	Gas	157.5
Terrell County Solar	383430	SR TERRELL 34.500	S1	Solar	74	Solar	74
Terrora Dam	383530	TERRORA 6.6000	1	Hydro	19.8	Hydro	19.8
Theodore	386085	THEO 1 13.800	1	Gas	64	Gas	64
Theodore	386086	THEO A 18.000	1A	Gas	167	Gas	167
Thurlgen	386591	THURLGEN 13.800	1	Hydro	69.4	Hydro	69.4
Thurlgen	386591	THURLGEN 13.800	3	Hydro	10	Hydro	10
Tiger Creek	383855	TIGER CK1 18.000	1	Gas	158	Gas	158
Tiger Creek	383856	TIGER CK2 18.000	2	Gas	158	Gas	158

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Tiger Creek	383857	TIGER CK3 18.000	3	Gas	157	Gas	157
Tiger Creek	383858	TIGER CK4 18.000	4	Gas	157	Gas	157
Timberland Solar	383308	TMBRLND SLR 34.500	B1	Battery	0	Battery	0
Timberland Solar	383308	TMBRLND SLR 34.500	S1	Solar	140	Solar	140
Toombs Solar	383431	SR TOOMBS 34.500	S1	Solar	250	Solar	250
Tri-State Solar 1[1]	383342	TRI ST SLR1 34.500	S1	Solar	0	Solar	0
Tri-State Solar 2[1]	383344	TRI ST SLR2 34.500	S1	Solar	0	Solar	0
Tugalo Dam	383532	TUGALO 1-2 6.6000	1	Hydro	22.2	Hydro	22.2
Tugalo Dam	383533	TUGALO 3-4 6.6000	3	Hydro	22.2	Hydro	22.2
Turkey Run Solar	383450	HICK PK PV 34.500	S1	Solar	195.5	Solar	195.5
Twiggs Solar	383443	TWIGGS SLR 34.500	S1	Solar	200	Solar	200
Tyre Bridge Solar[1]	383343	TYRE BG SLR 34.500	S1	Solar	0	Solar	0
USMC Supply	380714	USMC SUPPLY 115.00	1	Biomass	12.5	Biomass	12.5
Vann Unit 1	317701	2VANN 1G 18.000	1	Gas	170	Gas	170
Vann Unit 2	317702	2VANN 2G 18.000	2	Gas	170	Gas	170
Vann Unit 3	317703	2VANN 3G 18.000	3	Gas	182	Gas	182
Vogtle	383751	VOGTLE1 25.000	1	Nuclear	1158.4	Nuclear	1158.4
Vogtle	383752	VOGTLE2 25.000	2	Nuclear	1160.5	Nuclear	1160.5
Vogtle	383753	VOGTLE3 26.000	3	Nuclear	1114	Nuclear	1114
Vogtle	383754	VOGTLE4 26.000	4	Nuclear	1114	Nuclear	1114
Wadley Solar	383305	WADLEY SLR 34.500	S1	Solar	260	Solar	260
Walker Springs III Solar	317841	2WALKERSPGEN0.7000	S1	Solar	81.4	Solar	81.4
Walker Springs Solar	386027	WLKR SPR I 34.500	S1	Solar	80	Solar	80
Walker Springs Solar	386028	WLKR SPR II 34.500	S1	Solar	80	Solar	80
Wallace Dam 1	383536	WALLACE 1-3 14.400	1	Pumped Hydro	50.7	Pumped Hydro	50.7
Wallace Dam 2	383536	WALLACE 1-3 14.400	2	Pumped Hydro	50.7	Pumped Hydro	50.7

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Wallace Dam 3	383536	WALLACE 1-3 14.400	3	Pumped Hydro	56.8	Pumped Hydro	56.8
Wallace Dam 4	383537	WALLACE 4-6 14.400	4	Pumped Hydro	54.8	Pumped Hydro	54.8
Wallace Dam 5	383537	WALLACE 4-6 14.400	5	Pumped Hydro	50.7	Pumped Hydro	50.7
Wallace Dam 6	383537	WALLACE 4-6 14.400	6	Pumped Hydro	50.7	Pumped Hydro	50.7
Walton Discover	383905	WALT DISC 1 13.800	1	Gas	50	Gas	50
Walton Discover	383906	WALT DISC 2 13.800	2	Gas	50	Gas	50
Wansley	383623	WANSLEY 6ST 18.000	6	Gas	220	Gas	220
Wansley	383624	WANSLEY 6A 18.000	6A	Gas	177.5	Gas	177.5
Wansley	383625	WANSLEY 6B 18.000	6B	Gas	177.5	Gas	177.5
Wansley	383626	WANSLEY 7ST 18.000	7	Gas	226.5	Gas	226.5
Wansley	383627	WANSLEY 7A 18.000	7A	Gas	184.1	Gas	184.1
Wansley	383628	WANSLEY 7B 18.000	7B	Gas	184.1	Gas	184.1
Wansley	383629	WANSLEY 9ST 18.000	1	Gas	192.6	Gas	192.6
Wansley	383630	WANSLEY 9A 18.000	1A	Gas	138	Gas	138
Wansley	383631	WANSLEY 9B 18.000	1B	Gas	138	Gas	138
Warrenton Solar[1]	383333	WARENTN SLR 34.500	B1	Battery	0	Battery	0
Warrenton Solar[1]	383333	WARENTN SLR 34.500	S1	Solar	0	Solar	0
Warthen	383743	WARTHEN 1 13.800	1	Gas	69	Gas	69
Warthen	383744	WARTHEN 2 13.800	2	Gas	69	Gas	69
Warthen	383745	WARTHEN 3 13.800	3	Gas	69	Gas	69
Warthen	383746	WARTHEN 4 13.800	4	Gas	69	Gas	69
Warthen	383747	WARTHEN 5 13.800	5	Gas	44	Gas	44
Warthen	383748	WARTHEN 6 13.800	6	Gas	69	Gas	69
Warthen	383749	WARTHEN 7 13.800	7	Gas	69	Gas	69

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Warthen	383750	WARTHEN 8 13.800	8	Gas	12	Gas	12
Washington County	386081	WASH CO 1 13.800	1	Gas	22.8	Gas	22.8
Washington County	386082	WASH CO 2 13.800	1A	Gas	77.9	Gas	77.9
Washington County Solar	383464	WSHCNTY SLR 34.500	S1	Solar	150	Solar	150
Watson	386850	WATSON A 13.800	A	Gas	33	Gas	33
Watson	386854	WATSON 4 20.000	4	Gas	271.5	Gas	271.5
Watson	386855	WATSON 5 24.000	5	Gas	516	Gas	516
Weiss Dam	386511	WEISSGEN 11.500	1	Hydro	71	Hydro	71
West Point Dam	383508	W PT DAM 13.800	1	Hydro	87	Hydro	87
Weyerhauser Biomass	389199	WEYERPW BIO 13.800	1	Biomass	14	Biomass	14.8
Weyerhauser Biomass	389199	WEYERPW BIO 13.800	2	Biomass	14	Biomass	14
White Oak Solar	383404	WHT OAK SLR 34.500	S1	Solar	76.5	Solar	76.5
White Pine Solar	383405	WH PINE SLR 34.500	S1	Solar	102	Solar	102
Wilson	383761	WILSON A 13.800	A	Gas	41	Gas	41
Wilson	383762	WILSON B 13.800	B	Gas	56	Gas	56
Wilson	383763	WILSON C 13.800	C	Gas	49	Gas	49
Wilson	383764	WILSON D 13.800	D	Gas	41	Gas	41
Wilson	383765	WILSON E 13.800	E	Gas	54	Gas	54
Wilson	383766	WILSON F 13.800	F	Gas	54	Gas	54
Wilsonville Solar[1]	383327	WILSNVL SLR 34.500	S1	Solar	0	Solar	0
Wing Solar	317129	2WINGSOLAR1G34.500	S1	Solar	80	Solar	80
Wolfskin Solar	383469	WLFSKIN SLR 34.500	S1	Solar	38	Solar	38
Yates 10	383650	YATES 10 19.000	10	Gas	0	Gas	408
Yates 6	383646	YATES 6 22.000	6	Gas	355.5	Gas	355.5
Yates 7	383647	YATES 7 22.000	7	Gas	358.5	Gas	358.5
Yates 8	383648	YATES 8 19.000	8	Gas	0	Gas	408
Yates 9	383649	YATES 9 19.000	9	Gas	0	Gas	408

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Yates Dam	384448	YATE GEN 6.9000	1	Hydro	46	Hydro	46
Yonah Dam	383534	YONAH 6.6000	1	Hydro	25.4	Hydro	25.4

[1] Generation with Notice To Proceed (NTP), but no transmission delivery service rights.

XII. Appendix 7: TVA BAA

The following information provides a more granular overview of the TVA BAA input assumptions and transmission expansion plan that are incorporated in the development of the SERTP regional transmission plan.

Table A7.1: 2024 SERTP Regional Transmission Plan – Transmission Project Snapshot by operating voltage (TVA BAA)

TVA BAA	100-120 kV	121-150 kV	151-199 kV	200-299 kV	300-399 kV	400-550 kV
Transmission lines – New (Circuit Mi.)	--	--	187.4	--	--	2.2
Transmission Lines – Uprates[1] (Circuit Mi.)	--	--	176.75	--	--	--
Transformers[2] – New	--	--	--	--	--	1
Transformers[2] – Replacements	--	--	--	--	--	--

1 A transmission line uprate may be the result of reconductoring and/or increasing the operating temperature/voltage along the transmission line.

2 The voltages shown represent the operating voltages on the high side terminals of the transformer.

Table A7.2: Interface commitments[1] modeled in the SERTP Summer Peak models – TVA BAA

To	2026	2029	2034
PJM	-429	50	50
MISO	213	213	213
Duke Progress West	14	14	14
Southern	43	41	40
LG&E/KU	3	3	3
Brookfield/Smoky Mountain	-384	-384	-384
APGI-Tapoco	0	0	0
SPP	-73	-73	-73
Owensboro Municipal	25	25	25
Total	-588	-111	-112

1 A positive number represents a net export from the TVA BAA.

A detailed listing of the changes in generation assumptions within the TVA BAA throughout the ten (10) year planning horizon, including the year(s) in which they occur, is provided in Table A7.3 below. Furthermore, supplemental information regarding noteworthy generation expansion and retirements/decertifications included in the 2024 series set of SERTP power flow models is provided below, while Table A8.4 provides a listing of generation assumptions based upon long-term, firm point-to-point commitments. The capacity (MW) values shown for each year reflect summer peak conditions. Table A7.5 provides a listing of all generators modeled in the 2024 Version 3 Summer Peak power flow models.

Table A7.3: Changes in Generation Assumptions Based Upon LSEs – TVA BAA

SITE	FUEL TYPE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Johnsonville CT	Gas	0	--	--	--	--	--	--	--	--	--
Cumberland FP Unit 2	Coal	1130	1130	0	--	--	--	--	--	--	--
Cumberland FP Unit 1	Coal	1130	1130	1130	1130	0	--	--	--	--	--
Kingston FP	Coal	1157	1157	1157	0	--	--	--	--	--	--
Johnsonville Aeros	Gas	530	530	530	530	530	530	530	530	530	530
Cumberland CC	Gas	--	--	1346	1346	1346	1346	1346	1346	1346	1346
Kingston CC	Gas	--	--	--	715	715	715	715	715	715	715
Kingston Aero	Gas	--	--	--	848	848	848	848	848	848	848
Trifecta	Solar	--	--	68	68	68	68	68	68	68	68
Hillsboro III	Solar	--	--	200	200	200	200	200	200	200	200
Spring Valley II	Solar	--	--	200	200	200	200	200	200	200	200
Lawrence County	Solar	--	100	100	100	100	100	100	100	100	100
Okolona	Solar	--	--	145	145	145	145	145	145	145	145
Normandy	Solar	--	213	213	213	213	213	213	213	213	213
Horus KY	Solar	--	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3

Table A7.4: Generation Assumptions Based Upon Expected Long-term, Firm Point-to-Point Commitments – TVA BAA

SITE	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
None										

Table A7.5: Generating Units Modeled in the 2024 Version 3 Summer Peak Power flow Model – TVA BAA

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Browns Ferry	364001	1BR FERRY N122.000	1	Nuclear	1297.6	Nuclear	1297.6
Browns Ferry	364002	1BR FERRY N222.000	1	Nuclear	1311.4	Nuclear	1311.4
Browns Ferry	364003	1BR FERRY N322.000	1	Nuclear	1302.5	Nuclear	1302.5
Sequoyah	364011	1SEQUOYAH N124.000	1	Nuclear	1209.24	Nuclear	1209.24
Sequoyah	364012	1SEQUOYAH N224.000	1	Nuclear	1193.24	Nuclear	1193.24
Watts Bar	364021	1WBNP N1 24.000	1	Nuclear	1324.1	Nuclear	1324.1
Watts Bar	364022	1WBNP N2 24.000	2	Nuclear	1293.89	Nuclear	1293.89
Optimist	364023	0OPTMST SLR 0.6300	1	Solar	205	Solar	205
Bell Buckle	364025	0BELLBUCKSOL0.6000	1	Solar	35	Solar	35
Canadaville	364027	0CANADA SOL 0.6000	1	Solar	16	Solar	16
Millington II	364030	0MILLNGTN II0.6900	1	Solar	75	Solar	75
Normandy Lake	364031	0NORMNDY SLR0.6000	1	Solar	215	Solar	215
Optimist	364032	0OPTMST BAT 0.6000	1	Battery	50	Battery	50
Optimist	364032	0OPTMST BAT 0.6000	P	Battery	0	Battery	0
Hillsboro	364033	0HLSBRO3 SOL0.6000	1	N/A	N/A	Solar	212.976
Spring Valley	364034	0SPR VLY SOL0.6000	1	N/A	N/A	Solar	211.604
Okolona	364035	0OKOLONA SOL0.7000	1	N/A	N/A	Solar	147.024
Trifecta	364036	0TRIFCTA SOL0.6000	1	N/A	N/A	Solar	68.4
Skyhawk	364037	1SKYHAWK SOL34.500	1	Solar	100	Solar	100
Russellville	364040	0RUSSVIL SOL0.6000	1	Solar	180	Solar	180
Ridgely Lake County	364044	1RIDGELY SOL34.500	1	Solar	177	Solar	177
Latitude	364048	1LATIT SOLAR13.000	1	Solar	15	Solar	15
Providence	364049	0PROV SOLAR 0.8000	1	Solar	16.1	Solar	16.1
Selmer Farm	364050	0SELMER FARM0.2000	1	Solar	17	Solar	17
Mulberry	364053	0MULB SOLAR 0.2000	1	Solar	16	Solar	16
River Bend	364054	0RIVER BEND 0.5500	1	Solar	75	Solar	75
Millington	364055	0MILNGTN SOL0.6900	1	Solar	53	Solar	53
Wildberry	364056	0WILDBRY SOL0.8000	1	Solar	15	Solar	15

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Muscle Shoals	364057	0MUS SHL SLR0.6000	1	Solar	228.5	Solar	228.5
Elora	364058	0ELORA SOLAR0.6600	1	Solar	150	Solar	150
Yum Yum	364059	0YUM YUM SOL0.5500	1	Solar	148.5	Solar	148.5
Horus	364060	0HORS SLR 0.6300	1	Solar	69.3	Solar	69.3
Ardmore	364063	0ARDMORE SOL0.6500	1	Solar	15.71	Solar	15.71
Selmer North 1	364064	0SELMER NOR10.3900	1	Solar	16.1	Solar	16.1
Selmer North 2	364065	0SELMER NOR20.3900	1	Solar	8.5	Solar	8.5
Golden Triangle 1	364067	0GN TRI SOL10.6000	1	Solar	200	Solar	200
Golden Triangle 1	364068	0G TRI BAT1 0.6000	1	Battery	50	Battery	50
Golden Triangle 1	364068	0G TRI BAT1 0.6000	P	Battery	0	Battery	0
McKellar	364070	0MCKLLR SLR 0.6600	1	Solar	70	Solar	70
Vonore BESS	364071	1VONORE BESS13.800	1	Battery	20	Battery	20
Vonore BESS	364071	1VONORE BESS13.800	P	Battery	0	Battery	0
Graceland	364074	0GRACE SOLAR0.6000	1	Solar	152.5	Solar	152.5
Lawrence County	364075	1LAW CTY SOL34.500	1	N/A	N/A	Solar	192
Golden Triangle 2	364076	0 G TRI GEN20.6300	1	Solar	150	Solar	150
Golden Triangle 2	364077	0 G TRI BAT20.6000	1	Battery	50	Battery	50
Golden Triangle 2	364077	0 G TRI BAT20.6000	P	Battery	0	Battery	0
North Adamsville	364078	1N ADAMSVILL26.000	1	Solar	27	Solar	27
Colbert	364081	1COLBERT CT918.000	9	Gas	240	Gas	240
Colbert	364082	1COLBERTCT1018.000	10	Gas	240	Gas	240
Colbert	364083	1COLBERTCT1118.000	11	Gas	240	Gas	240
Cumberland	364119	1CUMBRL F1HL22.000	1	Coal	662.5	Coal	662.5
Cumberland	364119	1CUMBRL F1HL22.000	2	Coal	662.5	Coal	662.5
Cumberland	364120	1CUMBRL F2HL22.000	1	Coal	667.5	Coal	0
Cumberland	364120	1CUMBRL F2HL22.000	2	Coal	656.5	Coal	0
Gallatin	364121	1GALLATIN F124.000	1	Coal	240	Coal	240
Gallatin	364122	1GALLATIN F224.000	1	Coal	240	Coal	240
Gallatin	364123	1GALLATIN F324.000	1	Coal	281	Coal	281
Gallatin	364124	1GALLATIN F424.000	1	Coal	281	Coal	281

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Kingston	364151	1KINGSTON F118.000	1	Coal	159.7	Coal	0
Kingston	364152	1KINGSTON F218.000	1	Coal	144	Coal	0
Kingston	364153	1KINGSTON F318.000	1	Coal	144	Coal	0
Kingston	364154	1KINGSTON F418.000	1	Coal	144	Coal	0
Kingston	364155	1KINGSTON F520.000	1	Coal	190	Coal	0
Kingston	364156	1KINGSTON F620.000	1	Coal	190	Coal	0
Kingston	364157	1KINGSTON F720.000	1	Coal	190	Coal	0
Kingston	364158	1KINGSTON F820.000	1	Coal	190	Coal	0
Kingston	364159	1KINGSTON F920.000	1	Coal	203.6	Coal	0
Shawnee	364171	1SHAWNEE F1 18.000	1	Coal	143	Coal	143
Shawnee	364172	1SHAWNEE F2 18.000	1	Coal	143	Coal	143
Shawnee	364173	1SHAWNEE F3 18.000	1	Coal	143	Coal	143
Shawnee	364174	1SHAWNEE F4 18.000	1	Coal	143	Coal	143
Shawnee	364175	1SHAWNEE F5 18.000	1	Coal	143	Coal	143
Shawnee	364176	1SHAWNEE F6 18.000	1	Coal	143	Coal	143
Shawnee	364177	1SHAWNEE F7 18.000	1	Coal	143	Coal	143
Shawnee	364178	1SHAWNEE F8 18.000	1	Coal	143	Coal	143
Shawnee	364179	1SHAWNEE F9 18.000	1	Coal	143	Coal	143
Allen	364201	1ALLEN T1-4 13.800	1	Gas	0	Gas	0
Allen	364201	1ALLEN T1-4 13.800	2	Gas	0	Gas	0
Allen	364201	1ALLEN T1-4 13.800	3	Gas	0	Gas	0
Allen	364201	1ALLEN T1-4 13.800	4	Gas	0	Gas	0
Allen	364202	1ALLEN T5-8 13.800	5	Gas	0	Gas	0
Allen	364202	1ALLEN T5-8 13.800	6	Gas	0	Gas	0
Allen	364202	1ALLEN T5-8 13.800	7	Gas	0	Gas	0
Allen	364202	1ALLEN T5-8 13.800	8	Gas	0	Gas	0
Allen	364203	1ALLEN T9-1213.800	1	Gas	0	Gas	0
Allen	364203	1ALLEN T9-1213.800	2	Gas	0	Gas	0
Allen	364203	1ALLEN T9-1213.800	3	Gas	0	Gas	0
Allen	364203	1ALLEN T9-1213.800	9	Gas	0	Gas	0

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Allen	364204	1ALLENT13-1613.800	1	Gas	0	Gas	0
Allen	364204	1ALLENT13-1613.800	2	Gas	0	Gas	0
Allen	364204	1ALLENT13-1613.800	3	Gas	0	Gas	0
Allen	364204	1ALLENT13-1613.800	4	Gas	0	Gas	0
Allen	364205	1ALLEN T17 13.800	1	Gas	0	Gas	0
Allen	364206	1ALLEN T18 13.800	1	Gas	0	Gas	0
Allen	364207	1ALLEN T19 13.800	1	Gas	0	Gas	0
Allen	364208	1ALLEN T20 13.800	1	Gas	0	Gas	0
Colbert	364211	1COLBERT T1 13.800	1	Gas	49	Gas	49
Colbert	364212	1COLBERT T2 13.800	2	Gas	49	Gas	49
Colbert	364213	1COLBERT T3 13.800	3	Gas	49	Gas	49
Colbert	364214	1COLBERT T4 13.800	4	Gas	49	Gas	49
Colbert	364215	1COLBERT T5 13.800	5	Gas	49	Gas	49
Colbert	364216	1COLBERT T6 13.800	6	Gas	49	Gas	49
Colbert	364217	1COLBERT T7 13.800	7	Gas	49	Gas	49
Colbert	364218	1COLBERT T8 13.800	8	Gas	49	Gas	49
Gallatin	364221	1GALLATIN T113.800	1	Gas	77	Gas	77
Gallatin	364222	1GALLATIN T213.800	2	Gas	77	Gas	77
Gallatin	364223	1GALLATIN T313.800	3	Gas	77	Gas	77
Gallatin	364224	1GALLATIN T413.800	4	Gas	77	Gas	77
Gallatin	364225	1GALLATIN T513.800	5	Gas	84	Gas	84
Gallatin	364226	1GALLATIN T613.800	6	Gas	84	Gas	84
Gallatin	364227	1GALLATIN T713.800	7	Gas	84	Gas	84
Gallatin	364228	1GALLATIN T813.800	8	Gas	84	Gas	84
Gleason	364231	1GLEASON T1 18.000	1	Gas	171.33	Gas	171.33
Gleason	364232	1GLEASON T2 18.000	2	Gas	171.33	Gas	171.33
Gleason	364233	1GLEASON T3 13.800	3	Gas	171.34	Gas	171.34
Cumberland	364234	1CUMBCC CT1 24.000	1	N/A	N/A	Gas	468
Cumberland	364235	1CUMBCC CT2 24.000	1	N/A	N/A	Gas	468
Cumberland	364236	1CUMBCC ST3 26.000	1	N/A	N/A	Gas	337

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Cumberland	364237	1CUMBCC ST4 26.000	1	N/A	N/A	Gas	337
Johnsonville	364257	1JVILLE T17 13.800	1	Gas	84	Gas	84
Johnsonville	364258	1JVILLE T18 13.800	1	Gas	84	Gas	84
Johnsonville	364259	1JVILLE T19 13.800	1	Gas	84	Gas	84
Johnsonville	364260	1JVILLE T20 13.800	1	Gas	84	Gas	84
Kemper	364261	1KEMPER T1 13.800	1	Gas	84	Gas	84
Kemper	364262	1KEMPER T2 13.800	1	Gas	84	Gas	84
Kemper	364263	1KEMPER T3 13.800	1	Gas	84	Gas	84
Kemper	364264	1KEMPER T4 13.800	1	Gas	84	Gas	84
Lagoon Creek	364271	1LAG CRK T1 13.800	1	Gas	85	Gas	85
Lagoon Creek	364272	1LAG CRK T2 13.800	1	Gas	85	Gas	85
Lagoon Creek	364273	1LAG CRK T3 13.800	1	Gas	85	Gas	85
Lagoon Creek	364274	1LAG CRK T4 13.800	1	Gas	85	Gas	85
Lagoon Creek	364275	1LAG CRK T5 13.800	1	Gas	85	Gas	85
Lagoon Creek	364276	1LAG CRK T6 13.800	1	Gas	85	Gas	85
Lagoon Creek	364277	1LAG CRK T7 13.800	1	Gas	85	Gas	85
Lagoon Creek	364278	1LAG CRK T8 13.800	1	Gas	85	Gas	85
Lagoon Creek	364279	1LAG CRK T9 13.800	1	Gas	84	Gas	84
Lagoon Creek	364280	1LAG CRK T1013.800	1	Gas	84	Gas	84
Lagoon Creek	364281	1LAG CRK T1113.800	1	Gas	84	Gas	84
Lagoon Creek	364282	1LAG CRK T1213.800	1	Gas	84	Gas	84
Marshall	364291	1MARSHALL T113.800	1	Gas	85.63	Gas	85.63
Marshall	364292	1MARSHALL T213.800	1	Gas	85.63	Gas	85.63
Marshall	364293	1MARSHALL T313.800	1	Gas	85.63	Gas	85.63
Marshall	364294	1MARSHALL T413.800	1	Gas	85.63	Gas	85.63
Marshall	364295	1MARSHALL T513.800	1	Gas	85.63	Gas	85.63
Marshall	364296	1MARSHALL T613.800	1	Gas	85.63	Gas	85.63
Marshall	364297	1MARSHALL T713.800	1	Gas	85.63	Gas	85.63
Marshall	364298	1MARSHALL T813.800	1	Gas	85.63	Gas	85.63
Lagoon Creek	364301	1LAG CRK CT116.500	1	Gas	175.22	Gas	175.22

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Lagoon Creek	364302	1LAG CRK CT216.500	1	Gas	176.21	Gas	176.21
Lagoon Creek	364303	1LAG CRK STG18.000	1	Gas	238.57	Gas	238.57
Paradise	364304	1PARADIS CT118.000	1	Gas	211	Gas	211
Paradise	364305	1PARADIS CT218.000	2	Gas	211	Gas	211
Paradise	364306	1PARADIS CT318.000	3	Gas	211	Gas	211
Paradise	364307	1PARADIS S1 19.000	1	Gas	467	Gas	467
Paradise	364308	1PARADIS CT518.000	1	Gas	240	Gas	240
Paradise	364309	1PARADIS CT618.000	1	Gas	240	Gas	240
Paradise	364310	1PARADIS CT718.000	1	Gas	240	Gas	240
John Sevier	364321	1J SEVIER C118.000	1	Gas	165.57	Gas	165.57
John Sevier	364322	1J SEVIER C218.000	2	Gas	165.57	Gas	165.57
John Sevier	364323	1J SEVIER C318.000	3	Gas	165.56	Gas	165.56
John Sevier	364324	1J SEVIER S419.500	4	Gas	377.3	Gas	377.3
Allen	364325	1ALLENCC CT125.000	1	Gas	314	Gas	314
Allen	364326	1ALLENCC CT225.000	1	Gas	314	Gas	314
Allen	364327	1ALLENCC ST119.000	1	Gas	454	Gas	454
Johnsonville	364361	1JCT AERO 2113.800	21	Gas	57.5	Gas	57.5
Johnsonville	364362	1JCT AERO 2213.800	22	Gas	57.5	Gas	57.5
Johnsonville	364363	1JCT AERO 2313.800	23	Gas	57.5	Gas	57.5
Johnsonville	364364	1JCT AERO 2413.800	24	Gas	57.5	Gas	57.5
Johnsonville	364365	1JCT AERO 2513.800	25	Gas	57.5	Gas	57.5
Johnsonville	364366	1JCT AERO 2613.800	26	Gas	57.5	Gas	57.5
Johnsonville	364367	1JCT AERO 2713.800	27	Gas	57.5	Gas	57.5
Johnsonville	364368	1JCT AERO 2813.800	28	Gas	57.5	Gas	57.5
Johnsonville	364369	1JCT AERO 2913.800	29	Gas	57.5	Gas	57.5
Johnsonville	364370	1JCT AERO 3013.800	30	Gas	57.5	Gas	57.5
Kingston	364371	1KIG AERO 1 13.800	1	N/A	N/A	Gas	58.43
Kingston	364372	1KIG AERO 2 13.800	1	N/A	N/A	Gas	58.43
Kingston	364373	1KIG AERO 3 13.800	1	N/A	N/A	Gas	58.43
Kingston	364374	1KIG AERO 4 13.800	1	N/A	N/A	Gas	58.43

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Kingston	364375	1KIG AERO 5 13.800	1	N/A	N/A	Gas	58.43
Kingston	364376	1KIG AERO 6 13.800	1	N/A	N/A	Gas	58.43
Kingston	364377	1KIG AERO 7 13.800	1	N/A	N/A	Gas	58.43
Kingston	364378	1KIG AERO 8 13.800	1	N/A	N/A	Gas	58.43
Kingston	364379	1KIG AERO 9 13.800	1	N/A	N/A	Gas	58.43
Kingston	364380	1KIG AERO 1013.800	1	N/A	N/A	Gas	58.43
Kingston	364381	1KIG AERO 1113.800	1	N/A	N/A	Gas	58.43
Kingston	364382	1KIG AERO 1213.800	1	N/A	N/A	Gas	58.43
Kingston	364383	1KIG AERO 1313.800	1	N/A	N/A	Gas	58.43
Kingston	364384	1KIG AERO 1413.800	1	N/A	N/A	Gas	58.43
Kingston	364385	1KIG AERO 1513.800	1	N/A	N/A	Gas	58.43
Kingston	364386	1KIG AERO 1613.800	1	N/A	N/A	Gas	58.43
Kingston	364387	1KIG CT 17 24.000	1	N/A	N/A	Gas	395.51
Kingston	364388	1KIG ST 18 26.000	1	N/A	N/A	Gas	278.65
Raccoon Mountain	364401	1RACCOON P1 23.000	1	Pumped Hydro	429	Pumped Hydro	429
Raccoon Mountain	364401	1RACCOON P1 23.000	P	Pumped Hydro	-410	Pumped Hydro	-410
Raccoon Mountain	364402	1RACCOON P2 23.000	1	Pumped Hydro	413	Pumped Hydro	413
Raccoon Mountain	364402	1RACCOON P2 23.000	P	Pumped Hydro	-410	Pumped Hydro	-410
Raccoon Mountain	364403	1RACCOON P3 23.000	1	Pumped Hydro	413	Pumped Hydro	413
Raccoon Mountain	364403	1RACCOON P3 23.000	P	Pumped Hydro	-410	Pumped Hydro	-410
Raccoon Mountain	364404	1RACCOON P4 23.000	1	Pumped Hydro	429	Pumped Hydro	429
Raccoon Mountain	364404	1RACCOON P4 23.000	P	Pumped Hydro	-410	Pumped Hydro	-410
Apalachia	364421	1APALACH H1 13.800	1	Hydro	41.19	Hydro	41.19
Apalachia	364422	1APALACH H2 13.800	1	Hydro	41.22	Hydro	41.22
Blue Ridge	364423	1BLUERIDG H112.500	1	Hydro	17.35	Hydro	17.35
Boone	364424	1BOONE H1 13.800	1	Hydro	37.8	Hydro	37.8
Boone	364425	1BOONE H2 13.800	1	Hydro	37.8	Hydro	37.8
Boone	364426	1BOONE H3 13.800	1	Hydro	37.8	Hydro	37.8
Chatuge	364428	1CHATUGE H1 6.9000	1	Hydro	13.92	Hydro	13.92
Chickamauga	364431	1CHICKAMG H113.800	1	Hydro	35.8	Hydro	35.8

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Chickamauga	364432	1CHICKAMG H213.800	1	Hydro	35.8	Hydro	35.8
Chickamauga	364433	1CHICKAMG H313.800	1	Hydro	35.8	Hydro	35.8
Chickamauga	364434	1CHICKAMG H413.800	1	Hydro	35.8	Hydro	35.8
Douglas	364435	1DOUGLAS H1 13.800	1	Hydro	45.82	Hydro	45.82
Douglas	364436	1DOUGLAS H2 13.800	1	Hydro	45.82	Hydro	45.82
Douglas	364437	1DOUGLAS H3 13.800	1	Hydro	45.82	Hydro	45.82
Douglas	364438	1DOUGLAS H4 13.800	1	Hydro	45.82	Hydro	45.82
Fontana	364439	1FONTANA H1 13.800	1	Hydro	103	Hydro	103
Fontana	364440	1FONTANA H2 13.800	1	Hydro	103	Hydro	103
Fontana	364441	1FONTANA H3 13.800	1	Hydro	103	Hydro	103
Fort Loudoun	364442	1FTLOUD H1 13.800	1	Hydro	36	Hydro	36
Fort Loudoun	364443	1FTLOUD H3 13.800	3	Hydro	45.31	Hydro	45.31
Fort Loudoun	364444	1FTLOUD H2 13.800	1	Hydro	36	Hydro	36
Fort Loudoun	364445	1FTLOUD H4 13.800	4	Hydro	45.31	Hydro	45.31
Fort Patrick Henry	364446	1FT PAT H1-213.800	1	Hydro	20.37	Hydro	20.37
Fort Patrick Henry	364446	1FT PAT H1-213.800	2	Hydro	20.32	Hydro	20.32
Great Falls	364447	1GFALLS H1-26.6000	1	Hydro	15.93	Hydro	15.93
Great Falls	364447	1GFALLS H1-26.6000	2	Hydro	19.54	Hydro	19.54
Guntersville	364448	1GUNTERSV H113.800	1	Hydro	28.81	Hydro	28.81
Guntersville	364449	1GUNTERSV H213.800	1	Hydro	30.6	Hydro	30.6
Guntersville	364450	1GUNTERSV H313.800	1	Hydro	29.84	Hydro	29.84
Guntersville	364451	1GUNTERSV H413.800	1	Hydro	31.27	Hydro	31.27
Hiwassee	364452	1HIWASSEE H113.800	1	Hydro	87.69	Hydro	87.69
Hiwassee	364453	1HIWASSEE H213.800	1	Hydro	94.2	Hydro	94.2
Hiwassee	364453	1HIWASSEE H213.800	P	Pumped Hydro	0	Pumped Hydro	0
Kentucky	364456	1KY HYDRO H113.800	1	Hydro	44.6	Hydro	44.6
Kentucky	364457	1KY HYDRO H213.800	1	Hydro	46.1	Hydro	46.1
Kentucky	364458	1KY HYDRO H313.800	1	Hydro	45.1	Hydro	45.1
Kentucky	364459	1KY HYDRO H413.800	1	Hydro	45.8	Hydro	45.8
Kentucky	364460	1KY HYDRO H513.800	1	Hydro	45.3	Hydro	45.3

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Melton Hill	364461	1MELTON H H113.800	1	Hydro	39.49	Hydro	39.49
Melton Hill	364462	1MELTON H H213.800	1	Hydro	39.74	Hydro	39.74
Norris	364465	1NORRIS H1 13.800	1	Hydro	63.47	Hydro	63.47
Norris	364466	1NORRIS H2 13.800	1	Hydro	63.47	Hydro	63.47
Nottely	364467	1NOTTELY H1 13.800	1	Hydro	19.22	Hydro	19.22
Ocoee 1	364468	1OCOEE#1H1-32.3000	1	Hydro	4.81	Hydro	4.81
Ocoee 1	364468	1OCOEE#1H1-32.3000	2	Hydro	4.81	Hydro	4.81
Ocoee 1	364468	1OCOEE#1H1-32.3000	3	Hydro	4.81	Hydro	4.81
Ocoee 1	364469	1OCOEE#1H4-52.3000	1	Hydro	4.81	Hydro	4.81
Ocoee 1	364469	1OCOEE#1H4-52.3000	2	Hydro	4.81	Hydro	4.81
Ocoee 2	364470	1OCOEE#2H1-26.6000	1	Hydro	10.9	Hydro	10.9
Ocoee 2	364470	1OCOEE#2H1-26.6000	2	Hydro	12.59	Hydro	12.59
Ocoee 3	364471	1OCOEE #3 H113.800	1	Hydro	29.3	Hydro	29.3
Pickwick	364472	1PICKWICK H113.800	1	Hydro	44.3	Hydro	44.3
Pickwick	364473	1PICKWICK H213.800	1	Hydro	42.9	Hydro	42.9
Pickwick	364474	1PICKWICK H313.800	1	Hydro	42.8	Hydro	42.8
Pickwick	364475	1PICKWICK H413.800	1	Hydro	43.59	Hydro	43.59
Pickwick	364476	1PICKWICK H513.800	1	Hydro	43.7	Hydro	43.7
Pickwick	364477	1PICKWICK H613.800	1	Hydro	43.2	Hydro	43.2
South Holston	364478	1SHOLSTON H113.800	1	Hydro	44.37	Hydro	44.37
Tims Ford	364479	1TIMSFORD H113.800	1	Hydro	40.05	Hydro	40.05
Watauga	364480	1WATAUGA H1 13.800	1	Hydro	37.86	Hydro	37.86
Watauga	364481	1WATAUGA H2 13.800	1	Hydro	32	Hydro	32
Watts Bar	364482	1WBHP H1 13.800	1	Hydro	39.27	Hydro	39.27
Watts Bar	364483	1WBHP H2 13.800	1	Hydro	39.27	Hydro	39.27
Watts Bar	364484	1WBHP H3 13.800	1	Hydro	39.27	Hydro	39.27
Watts Bar	364485	1WBHP H4 13.800	1	Hydro	39.2	Hydro	39.2
Watts Bar	364486	1WBHP H5 13.800	1	Hydro	39.2	Hydro	39.2
Wilbur	364492	1WILBUR H1-32.3000	1	Hydro	1.5	Hydro	1.5
Wilbur	364492	1WILBUR H1-32.3000	2	Hydro	1.5	Hydro	1.5

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Wilbur	364492	1WILBUR H1-32.3000	3	Hydro	1.5	Hydro	1.5
Wilbur	364493	1WILBUR H4 2.3000	1	Hydro	7.2	Hydro	7.2
Wilson	364494	1WILSON H1-212.000	1	Hydro	22.5	Hydro	22.5
Wilson	364494	1WILSON H1-212.000	2	Hydro	22.8	Hydro	22.8
Wilson	364495	1WILSON H3-412.000	1	Hydro	23	Hydro	23
Wilson	364495	1WILSON H3-412.000	2	Hydro	22.3	Hydro	22.3
Wilson	364496	1WILSON H5-612.000	1	Hydro	30.6	Hydro	30.6
Wilson	364496	1WILSON H5-612.000	2	Hydro	30.43	Hydro	30.43
Wilson	364497	1WILSON H7-812.000	1	Hydro	29.3	Hydro	29.3
Wilson	364497	1WILSON H7-812.000	2	Hydro	30.9	Hydro	30.9
Wilson	364498	1WILSON 9-1013.800	1	Hydro	30	Hydro	30
Wilson	364498	1WILSON 9-1013.800	2	Hydro	29.7	Hydro	29.7
Wilson	364499	1WILSON11-1213.800	1	Hydro	29.8	Hydro	29.8
Wilson	364499	1WILSON11-1213.800	2	Hydro	29.5	Hydro	29.5
Wilson	364500	1WILSON13-1413.800	1	Hydro	29.6	Hydro	29.6
Wilson	364500	1WILSON13-1413.800	2	Hydro	29.6	Hydro	29.6
Wilson	364501	1WILSON15-1613.800	1	Hydro	29.23	Hydro	29.23
Wilson	364501	1WILSON15-1613.800	2	Hydro	29.23	Hydro	29.23
Wilson	364502	1WILSON17-1813.800	1	Hydro	29.01	Hydro	29.01
Wilson	364502	1WILSON17-1813.800	2	Hydro	29.03	Hydro	29.03
Wilson	364503	1WILSON H19 13.800	1	Hydro	54.97	Hydro	54.97
Wilson	364504	1WILSON H20 13.800	1	Hydro	56.06	Hydro	56.06
Wilson	364505	1WILSON H21 13.800	1	Hydro	54.97	Hydro	54.97
Cherokee	364511	1CHEROKEE H113.800	1	Hydro	37.2	Hydro	37.2
Cherokee	364512	1CHEROKEE H213.800	2	Hydro	39.83	Hydro	39.83
Cherokee	364513	1CHEROKEE H313.800	3	Hydro	39.83	Hydro	39.83
Cherokee	364514	1CHEROKEE H413.800	4	Hydro	36.84	Hydro	36.84
Nickajack	364521	1NICKAJACK 113.800	1	Hydro	30.7	Hydro	30.7
Nickajack	364522	1NICKAJACK 213.800	1	Hydro	27.31	Hydro	27.31
Nickajack	364523	1NICKAJACK 313.800	1	Hydro	26.03	Hydro	26.03

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Nickajack	364524	1NICKAJACK 413.800	1	Hydro	26.08	Hydro	26.08
Barkley	364601	1BARKLEY H1 13.800	1	Hydro	35.5	Hydro	35.5
Barkley	364602	1BARKLEY H2 13.800	1	Hydro	35.5	Hydro	35.5
Barkley	364603	1BARKLEY H3 13.800	1	Hydro	35.5	Hydro	35.5
Barkley	364604	1BARKLEY H4 13.800	1	Hydro	35.5	Hydro	35.5
Center Hill	364605	1CENTHILL H113.800	1	Hydro	52	Hydro	52
Center Hill	364606	1CENTHILL H213.800	1	Hydro	52	Hydro	52
Center Hill	364607	1CENTHILL H313.800	1	Hydro	52	Hydro	52
Cheatham	364608	1CHEATHAM H113.800	1	Hydro	13	Hydro	13
Cheatham	364609	1CHEATHAM H213.800	1	Hydro	13	Hydro	13
Cheatham	364610	1CHEATHAM H313.800	1	Hydro	13	Hydro	13
Cordell Hull	364611	1CORDELL H1 13.800	1	Hydro	37	Hydro	37
Cordell Hull	364612	1CORDELL H2 13.800	1	Hydro	37	Hydro	37
Cordell Hull	364613	1CORDELL H3 13.800	1	Hydro	37	Hydro	37
Dale Hollow	364614	1DALE HOL H113.800	1	Hydro	19.9	Hydro	19.9
Dale Hollow	364615	1DALE HOL H213.800	1	Hydro	19.9	Hydro	19.9
Dale Hollow	364616	1DALE HOL H313.800	1	Hydro	19.9	Hydro	19.9
Old Hickory	364617	1OLDHICKH1-213.800	1	Hydro	28.7	Hydro	28.7
Old Hickory	364617	1OLDHICKH1-213.800	2	Hydro	29	Hydro	29
Old Hickory	364618	1OLDHICKH3-413.800	1	Hydro	29	Hydro	29
Old Hickory	364618	1OLDHICKH3-413.800	2	Hydro	29	Hydro	29
Percy Priest	364619	1PERCY PR H113.800	1	Hydro	30	Hydro	30
Wolf Creek	364620	1WOLFCR H1-213.800	1	Hydro	52	Hydro	52
Wolf Creek	364620	1WOLFCR H1-213.800	2	Hydro	52	Hydro	52
Wolf Creek	364621	1WOLFCR H3-413.800	1	Hydro	52	Hydro	52
Wolf Creek	364621	1WOLFCR H3-413.800	2	Hydro	52	Hydro	52
Wolf Creek	364622	1WOLFCR H5-613.800	1	Hydro	52	Hydro	52
Wolf Creek	364622	1WOLFCR H5-613.800	2	Hydro	52	Hydro	52
Wheeler	364650	1WHEELER 1-213.800	1	Hydro	38.77	Hydro	38.77
Wheeler	364650	1WHEELER 1-213.800	2	Hydro	33.23	Hydro	33.23

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Wheeler	364651	1WHEELER 3-413.800	1	Hydro	33.62	Hydro	33.62
Wheeler	364651	1WHEELER 3-413.800	2	Hydro	33.43	Hydro	33.43
Wheeler	364652	1WHEELER 5-613.800	1	Hydro	34.69	Hydro	34.69
Wheeler	364652	1WHEELER 5-613.800	2	Hydro	34.57	Hydro	34.57
Wheeler	364653	1WHEELER 7-813.800	1	Hydro	34.36	Hydro	34.36
Wheeler	364653	1WHEELER 7-813.800	2	Hydro	34.46	Hydro	34.46
Wheeler	364654	1WHEELER 9 13.800	1	Hydro	41.89	Hydro	41.89
Wheeler	364655	1WHEELER 10 13.800	2	Hydro	41.89	Hydro	41.89
Wheeler	364656	1WHEELER 11 13.800	3	Hydro	41.89	Hydro	41.89
Brownsville	364701	1BROWNSVL T113.800	1	Gas	115	Gas	115
Brownsville	364702	1BROWNSVL T213.800	2	Gas	115	Gas	115
Brownsville	364703	1BROWNSVL T313.800	3	Gas	116.86	Gas	116.86
Brownsville	364704	1BROWNSVL T413.800	4	Gas	115	Gas	115
Ackerman	364721	1ACKERMAN T116.000	1	Gas	229.78	Gas	229.78
Ackerman	364722	1ACKERMAN T216.000	1	Gas	229.78	Gas	229.78
Ackerman	364723	1ACKERMAN S116.000	1	Gas	295.43	Gas	295.43
Decatur Energy Center	364731	1DEC CT1 18.000	1	Gas	181.3	Gas	181.3
Decatur Energy Center	364732	1DEC CT2 18.000	1	Gas	181.3	Gas	181.3
Decatur Energy Center	364733	1DEC CT3 18.000	1	Gas	181.3	Gas	181.3
Decatur Energy Center	364734	1DEC STG 18.000	1	Gas	299.9	Gas	299.9
Magnolia	364761	1MAGNOL T1 18.000	1	Gas	175.71	Gas	175.71
Magnolia	364762	1MAGNOL T2 18.000	1	Gas	168.48	Gas	168.48
Magnolia	364763	1MAGNOL T3 18.000	1	Gas	174.68	Gas	174.68
Magnolia	364764	1MAGNOL S1 18.000	1	Gas	155.04	Gas	155.04
Magnolia	364765	1MAGNOL S2 18.000	1	Gas	155.04	Gas	155.04
Magnolia	364766	1MAGNOL S3 18.000	1	Gas	155.04	Gas	155.04
Morgan Energy Center	364771	1MEC CT1 18.000	1	Gas	176.48	Gas	176.48
Morgan Energy Center	364772	1MEC CT2 18.000	1	Gas	176.48	Gas	176.48
Morgan Energy Center	364773	1MEC CT3 18.000	1	Gas	176.48	Gas	176.48
Morgan Energy Center	364774	1MEC STG 18.000	1	Gas	291.57	Gas	291.57

Summer Peak 2026 & 2034 Regional SERTP V3 Models				2026		2034	
Plant	Bus Number	Bus Name	Id	Fuel Type	Pmax (MW)	Fuel Type	Pmax (MW)
Red Hills	364780	1REDHILLS F120.000	1	Coal	489	Coal	0
Southaven	364791	1S HAVEN T1 18.000	1	Gas	168.06	Gas	168.06
Southaven	364792	1S HAVEN T2 18.000	3	Gas	165.03	Gas	165.03
Southaven	364793	1S HAVEN T3 18.000	5	Gas	167.06	Gas	167.06
Southaven	364794	1S HAVEN S1 13.800	2	Gas	104.28	Gas	104.28
Southaven	364795	1S HAVEN S2 13.800	4	Gas	104.28	Gas	104.28
Southaven	364796	1S HAVEN S3 13.800	6	Gas	104.28	Gas	104.28
Caledonia	364801	1COGCALED T118.000	1	Gas	180.4	Gas	180.4
Caledonia	364802	1COGCALED S113.800	2	Gas	117.1	Gas	117.1
Caledonia	364803	1COGCALED T218.000	3	Gas	180.4	Gas	180.4
Caledonia	364804	1COGCALED S213.800	4	Gas	117.1	Gas	117.1
Caledonia	364805	1COGCALED T318.000	5	Gas	180.4	Gas	180.4
Caledonia	364806	1COGCALED S313.800	6	Gas	117.1	Gas	117.1
Tate & Lyle	364901	1TATE&L 1-1213.800	1	DG	0	DG	0
Air Products & Chemicals	364902	1AIR PRODUCT13.200	1	DG	0	DG	0
East McMinnville	364904	1E MCMIN1-1213.090	1	DG	20	DG	0
Hickory Valley	364905	1BED G1-11 4.1600	1	DG	0	DG	0
Kyles Ford	364907	1KYLESF 1-114.1600	1	DG	20	DG	0
North Albertville	364910	1NALB DS#1-44.1600	1	DG	0	DG	0
Weyerhaeuser	364911	1WEYERHSR G113.800	1	Biomass	27.56	Biomass	27.56
Weyerhaeuser	364912	1WEYERHSR G213.800	2	Biomass	27.57	Biomass	27.57
Weyerhaeuser	364913	1WEYERHSR G313.800	3	Biomass	0	Biomass	0
Weyerhaeuser	364913	1WEYERHSR G313.800	4	Biomass	0	Biomass	0
Windrock	364915	1WINDROCK WG0.6900	1	Wind	0	Wind	0